CITY OF NEWARK
CITY COUNCIL

City Administration Building, City Council Chambers

37101 Newark Boulevard, Newark, CA 94560 | (510) 578-4266 | E-mail: city.clerk@newark.org

AGENDA

Thursday, September 14, 2023
7:00 P.M.

A. ROLL CALL

B. PRESENTATIONS

1. Proclamation for Newark Days
2. Proclaiming September as National Preparedness Month
3. Commending the Deaf Plus Adult Community
4. Introduction of employee(s)
5. Presentation of Certificates of Appreciation for the Senior Advisory Committee

C. PUBLIC COMMENT

The public is invited to address the City Council on any item not listed on the agenda. Public Comments are generally limited to 5 minutes per speaker. Please note that State law prohibits the Council from acting on non-agenda items.

D. CONSENT CALENDAR

Consent Calendar items are considered to be routine and may be approved by one motion. There will be no separate discussion on these items unless there is a request by a Council Member, a staff member, or a member of the public to remove an item for separate discussion and action.

1. Approval of Audited Demands
2. Approval of July 27, 2023, minutes
3. Report on administrative actions during August recess

4. Adopt a resolution accepting completion of Smith Avenue Sinkhole Repairs, Project No. 1358, by Mountain Cascade, Inc., terminating emergency contracting actions pursuant to Public Contract Code Section 22050 and amending the 2022-2024 Biennial Budget for Fiscal Year 2024; exempt from CEQA review per CEQA Guidelines Section 15301

5. Adopt a resolution approving side letter agreements to the Memorandum of Understanding with the Newark Association of Miscellaneous Employees (NAME) and to the Memorandum of Understanding with the Newark Police Association (NPA) to provide that NPA serve as the sole and exclusive bargaining representative for the Vehicle Abatement Officer classification.

E. PUBLIC HEARINGS

1. Public Hearing to consider approval of a Resolution finding the project exempt from further environmental review pursuant to CEQA and approving a Design Review, Minor Use Permit, and Vesting Tentative Map for a 76-unit residential development located at 38600 Cedar Boulevard (APNs 92A-2585-12-1, 92A-2585-31).

F. OTHER BUSINESS

1. Presentation of programs and services delivered by the City of Newark's Clark W. Redeker Newark Senior Center and adopt a resolution approving the revised guidelines and procedures for the Senior Citizen Standing Advisory Committee.

G. CITY COUNCIL MATTERS

City Council Members report on attendance at intergovernmental agency meetings, conferences, and seminars since the last meeting. City Council Members may also announce upcoming events and coordinate attendance; report on local events attended since the last meeting; and make brief comments on issues of concern.

1. Adopt a resolution approving the Mayor's appointment to the Senior Citizen Standing Advisory Committee

H. CITY MANAGER UPDATES

I. CLOSED SESSION

1. Closed session for conference with Labor Negotiators pursuant to California Government Code Section 54957.6. Agency designated representatives: City Manager Benoun, Assistant City Manager Hovorka, Human Resources Director Ingham-Watters, and Labor Attorney; Employee Group: the Newark Police Association

J. ADJOURNMENT

MEETING INFORMATION

Members of the public may attend the meeting in person, virtually via Zoom, or watch it via YouTube or Cable Channel 26. The ability to participate and observe via Zoom, YouTube or Cable Channel 26 is predicated on those technologies being available and functioning without technical difficulties. Should those platforms not be available, or become non-functioning, or should the City Council otherwise encounter technical difficulties that make those platforms unavailable, the City Council will proceed with business in person unless otherwise prohibited by law.

How to view the meeting remotely:
Livestream online at YouTube: https://www.youtube.com/@cityofnewark3077/streams
Copy/paste the YouTube URL into your browser if the link does not automatically open.

How to participate in the meeting remotely, via Zoom Webinar:
From a PC, Mac, iPad, iPhone or Android device: https://us06web.zoom.us/j/87158324007
From a telephone dial 1- 669-900-9128, Webinar ID 871 5832 4007

Provide live, remote public comments, when the Mayor calls for comments. Use the raise your hand feature in Zoom to be called upon by the City Clerk.

For frequently asked Zoom questions, please go to Agendas and Minutes and select the Frequently Asked Questions link.

No question shall be asked of a council member, city staff, or an audience member except through the Mayor. No person shall interrupt the meeting. Any person who refuses to carry out instructions given by the Mayor for the purpose of maintaining order may be guilty of an infraction and may result in removal from the meeting.

Council Meeting Access/Materials:
The agenda packet is available for review at Agendas and Minutes. The packet is typically posted to the City website the Friday before the meeting, but no later than 72 hours before the meeting.

Pursuant to Government Code 54957.5, supplemental materials distributed less than 72 hours before this meeting, to a majority of the City Council, will be made available for public inspection at this meeting and will be posted at https://www.newark.org/departments/city-manager-s-office/agendas-minutes and will concurrently be made available for public inspection during regular business hours at the David W. Smith City Hall, 37101 Newark Boulevard, Newark CA. Materials prepared by City staff and distributed during the meeting are available for public inspection at the meeting or after the meeting if prepared by some other person. Documents related to closed session items or are exempt from disclosure will not be made available for public inspection. For those persons who require special accommodations, please contact the City Clerk at least two days prior to the meeting atCity Clerk or 510-578-4266.

STAFF REPORT

Item B. 1.

DATE	09/14/2023
TO	Honorable Mayor and City Council Members
FROM	Sheila Harrington, City Clerk
SUBJECT	Proclamation for Newark Days

Newark Days is a four-day festival held to commemorate the birthday of the City of Newark. A proclamation has been prepared and members of the Newark Days Committee will accept it at the City Council meeting.

Attachments

Proclamation

PROCLAMATION NO. 1898

NEWARK DAYS

WHEREAS, the Newark Days Committee annually celebrates the birth date of our City during the month of September; and

WHEREAS, this is a time to celebrate the community of Newark in all its aspects; and

WHEREAS, this is a time when all Newark residents are encouraged to explore our rich heritage and a time to recognize the multi-cultural contributions of divergent people who have come together to create a common sense of community; and

WHEREAS, this is also a time when we encourage Newark residents to pause and reflect on the values that we represent as a community so succinctly stated in our Newark Days Celebration motto, "People, Pride, and Progress";

NOW, THEREFORE, I, Michael K. Hannon, Mayor of the City of Newark, on behalf of the Newark City Council, do hereby proclaim September 14-17, 2023, as

NEWARK DAYS

in Newark.

IN WITNESS THEREOF, I have hereunto set forth my hand and caused the Official Seal of the City of Newark, State of California, to be affixed this Fourteenth Day of September, Two Thousand Twenty-three.

MICHAEL K. HANNON
Mayor

STAFF REPORT

Item B. 2.

DATE	09/14/2023
TO	Honorable Mayor and City Council Members
FROM	Lenka Hovorka, Assistant City Manager
SUBJECT	Proclaiming September as National Preparedness Month

National Preparedness Month is an observance each September to raise awareness about the importance of preparing for disasters and emergencies that could happen at any time. Emergency Services Coordinator Rich Martinez will be at the meeting to accept the proclamation.

Attachments

Proclamation No. 1900

PROCLAMATION NO. 1900

NATIONAL PREPAREDNESS MONTH

WHEREAS, National Preparedness Month is a nationwide coordinated effort sponsored by the Department of Homeland Security each September to increase public awareness of emergencies in homes, businesses, and schools; and

WHEREAS, this national effort aims to encourage Americans to prepare and to persuade individuals to take action; and

WHEREAS, during the month of September, residents are encouraged to take this opportunity to make themselves and their families better prepared for emergencies and to stay informed by registering on ACAlert.org for emergency notifications; and

WHEREAS, being prepared includes creating an emergency Go kit containing items that will allow individuals and their families to survive for up to a week in the event of an emergency and recommend a Go kit for home, car, and workplace; and

WHEREAS, throughout the year the City of Newark and the City CERT program promote emergency preparedness by providing public education to the community and providing emergency preparedness information on the City's website; and

WHEREAS, the Newark CERT has conducted monthly emergency preparedness trainings for their members and for the community and has participated in community events encouraging emergency volunteerism.

NOW, THEREFORE, I, Michael K. Hannon, Mayor of the City of Newark, on behalf of the Newark City Council, do hereby proclaim September 2023, as

NATIONAL PREPAREDNESS MONTH

in Newark and encourage all residents to be better prepared for emergencies.

IN WITNESS THEREOF, I have hereunto set forth my hand and caused the Official Seal of the City of Newark, State of California, to be affixed this Fourteenth Day of September, Two Thousand Twenty-three.

MICHAEL K. HANNON
Mayor

STAFF REPORT

Item B. 3.

DATE	09/14/2023
TO	Honorable Mayor and City Council Members
FROM	Sheila Harrington, City Clerk
SUBJECT	Commending the Deaf Plus Adult Community

The Deaf Plus Adult Community (DPAC) is a nonprofit organization, located in the city of Newark, that serves deaf adults with disabilities (deafplus). A commendation has been prepared to honor DPAC for the support that they provide to help the deafplus community access employment, education, and community services.

Attachments

Commendation

COMMENDATION

DEAF PLUS ADULT COMMUNITY

WHEREAS, in 2007, a small volunteer group launched the beginnings of Deaf Plus Adult Community; and

WHEREAS, today, Deaf Plus Adult Community (DPAC) is an integrated adult day program that serves deaf adults with disabilities ("deafplus") in the Greater San Francisco Bay Area; and

WHEREAS, Deaf Plus Adult Community provides a safe space in their spacious communal center in Newark, California, for deafplus adults to gather, build relationships, and explore their identities through recreational, educational, and social opportunities; and

WHEREAS, the goal of Deaf Plus Adult Community is to provide the communication and support necessary to gain access to employment, education, and community services; and

WHEREAS, through education, advocacy and outreach, Deaf Plus Adult Community works to address the social isolation faced by deafplus adults;

NOW, THEREFORE, I, Michael K. Hannon, Mayor of the City of Newark, on behalf of the Newark City Council, do hereby commend

DEAF PLUS ADULT COMMUNITY

for all that they do to give deafplus individuals and their families the opportunity to experience hope, love, respect, and support.

IN WITNESS THEREOF, I have hereunto set my hand and caused the Official Seal of the City of Newark, State of California, to be affixed this Twenty-seventh Day of July, Two Thousand Twenty-three.

MICHAEL K. HANNON
Mayor

STAFF REPORT

Item B. 4.

DATE	09/14/2023
TO	Honorable Mayor and City Council Members
FROM	Sheila Harrington, City Clerk
SUBJECT	Introduction of employee(s)

The following employees will be introduced at the City Council meeting: Cathreene Ingham-Watters, Human Resources Director, Esther Jung, Associate Civil Engineer, Vibha Deshmukh, Associate Civil Engineer, Tianna Jones, Administrative Support Specialist II, and Bengil Ranillo, Accounting Assistant.

STAFF REPORT

Item B. 5.

DATE	09/14/2023
TO	Honorable Mayor and City Council Members
FROM	Sheila Harrington, City Clerk
SUBJECT	Presentation of Certificates of Appreciation for the Senior Advisory Committee

The Senior Citizen Standing Advisory Committee (Committee) researches senior issues within the City of Newark and identifies those needs which require assistance. The Committee makes recommendations to the City Council and provides information that they feel is pertinent to the well-being of Newark's senior citizens. Certificates of Appreciation have been prepared for the Committee members in honor of their past and future service to the community. The current committee consists of Glen Wickizer, Rick Arellano, Kathleen Lemos, Sandra Arellano, Eileen McDonald, Stanley Keiser, and Olga Borjon.

STAFF REPORT

Item D. 1.

DATE	09/14/2023
TO	Honorable Mayor and City Council Members
FROM	Krysten Lee, Finance Director
SUBJECT	Approval of Audited Demands

Attachments

Audited Demands 07.13.23
Audited Demands 07.20.23
Audited Demands 07.27.23
Audited Demands 08.03.23-1
Audited Demands 08.03.23-2
Audited Demands 08.10.23
Audited Demands 08.17.23
Audited Demands 08.24.23-1
Audited Demands 08.24.23-2

LIVE Newark CA LIVE

Payment Batch Register

Bank Account: AP - ZBA ACCOUNTS PAYABLE

Batch Date: 07/13/2023

Type	Date	Number Source	Payee Name	EFT Bank/Account	Transaction Amount
Bank Account: AP - ZBA ACCOUNTS PAYABLE					
Check	07/13/2023	8854 Accounts Payable	34TH STREET INC.		6,293.66
	Invoice	Date	Description		Amount
	2023-73	06/22/2023	CONFLICT RESOLUTION - 5/5/23 - 6/4/23		6,293.66
Check	07/13/2023	8855 Accounts Payable	4LEAF INC		29,614.75
	Invoice	Date	Description		Amount
	J3962R	02/28/2023	TEMP PROFESSIONAL PLANNING SVCS - 2ND AMEND - 2/1/23 TO 2/28/23		13,750.00
	J4123I	07/07/2023	TEMPORARY PROFESSIONAL CODE ENFRCMNT SVCS - THRU 6/1/23-6/30/23		15,864.75
Check	07/13/2023	8856 Accounts Payable	ABBE & ASSOCIATES LLC		8,265.00
	Invoice	Date	Description		Amount
	N-22	07/10/2023	RECYCLING/ORGANICS CONSULTANT (THROUGH 06/30/23)		2,990.00
	N-21	07/10/2023	RECYCLING/ORGANICS CONSULTANT (THROUGH 06/30/23)		5,275.00
Check	07/13/2023	8857 Accounts Payable	ADITYA T BABU		1,127.50
	Invoice	Date	Description		Amount
	0619-062223	06/22/2023	VOLLEYBALL CAMP 6/19-6/22/23		1,127.50
Check	07/13/2023	8858 Accounts Payable	AFLAC		893.28
	Invoice	Date	Description		Amount
	140953	06/30/2023	AFLAC - JUNE 2023		893.28
Check	07/13/2023	8859 Accounts Payable	ALAMEDA COUNTY SHERIFF'S OFFICE		735.65
	Invoice	Date	Description		Amount
	PPE 6.24.23	06/27/2023	WAGE GARNISHMENT - 6/11/23-6/24/23 CASE #21CV000937		735.65
Check	07/13/2023	8860 Accounts Payable	BAILEY FENCE COMPANY INC		2,339.00
	Invoice	Date	Description		Amount
	85311	06/19/2023	FENCE REPAIR-HALEY AND CEDAR 6/16/23		2,339.00
Check	07/13/2023	8861 Accounts Payable	BATTERY SYSTEMS INC		296.21
	Invoice	Date	Description		Amount
	28690619231334	06/20/2023	BATTERIES 65-85		296.21
Check	07/13/2023	8862 Accounts Payable	BUREAU VERITAS NORTH AMERICA INC.		27,162.83
	Invoice	Date	Description		Amount
	RI 23027172	06/19/2023	BI FIELD INSPECTION AND RELATED PROFESSIONAL SERVICES 05/23		8,142.97
	RI 23027171	06/19/2023	BI FIELD INSPECTION AND RELATED PROFESSIONAL SERVICES 05/23		2,214.04

	RI 23027170	06/19/2023	BI FIELD INSPECTION AND RELATED PROFESSIONAL SERVICES 05/23		315.00
	RI 23027173	06/19/2023	BI FIELD INSPECTION AND RELATED PROFESSIONAL SERVICES 06/23		16,490.82
Check	07/13/2023	8863 Accounts Payable	PETTY CASH CUSTODIAN-BEVERLY RYANS		593.73
	Invoice	Date	Description		Amount
	051123-070523PD	06/30/2023	PETTY CASH REPLENISHMENT V#3233-32498		593.73
Check	07/13/2023	8864 Accounts Payable	PETTY CASH CUSTODIAN - RAQUEL THOMAS		117.32
	Invoice	Date	Description		Amount
	070122-063023FIN	07/10/2023	PETTY CASH REPLENISHMENT FY2023		117.32
Check	07/13/2023	8865 Accounts Payable	CITY OF UNION CITY		22,922.49
	Invoice	Date	Description		Amount
	2023-0485	04/01/2023	50% OF EMERGENCY SERVICES COORDINATORY SALARY APRIL 2023		7,640.83
	2023-0486	05/01/2023	50% OF EMERGENCY SERVICES COORDINATORY SALARY MAY 2023		7,640.83
	2023-0487	06/28/2023	50% OF EMERGENCY SERVICES COORDINATORY SALARY JUNE 2023		7,640.83
Check	07/13/2023	8866 Accounts Payable	CIVICA LAW GROUP, APC		1,867.50
	Invoice	Date	Description		Amount
	10348	06/01/2023	PROFESSIONAL SERVICES RENDERED THROUGH MAY 31, 2023		921.30
	10349	06/01/2023	PROFESSIONAL SERVICES RENDERED THROUGH MAY 31, 2023		946.20
Check	07/13/2023	8867 Accounts Payable	CONSOR NORTH AMERICA, INC.		125,223.50
	Invoice	Date	Description		Amount
	N16N131CA.00-35	03/31/2023	CENTRAL AVE OVERPASS DESIGN SERVICES, PRJ 1014 12/1/22-01/28/23		88,820.25
	N16N131CA.00-36	05/08/2023	CENTRAL AVE OVERPASS DESIGN SERVICES, PRJ 1014 02/01-02/28/23		36,403.25
Check	07/13/2023	8868 Accounts Payable	DAILY JOURNAL CORPORATION		300.00
	Invoice	Date	Description		Amount
	B3712143	06/21/2023	PUBLISH ORDINANCE 542 06/20/2023		300.00
Check	07/13/2023	8869 Accounts Payable	DALLAS CHILDREN'S ADVOCACY CENTER		825.00
	Invoice	Date	Description		Amount
	23-06082023-2884	07/10/2023	35th ANNUAL CONFERENCE-JOSEPH HUNTER 08/06-08/10/23		825.00
Check	07/13/2023	8870 Accounts Payable	DELTA DENTAL OF CALIFORNIA		17,561.07
	Invoice	Date	Description		Amount
	BE005566030	06/27/2023	DELTA PPO - JULY 2023 PREMIUMS		17,561.07
Check	07/13/2023	8871 Accounts Payable	DELTA DENTAL INSURANCE COMPANY		172.82
	Invoice	Date	Description		Amount
	BE005564133	07/11/2023	DELTA CARE - JULY 2023 PREMIUMS		172.82
Check	07/13/2023	8872 Accounts Payable	ELIFEGUARD, INC.		1,467.39
	Invoice	Date	Description		Amount
	76246	03/21/2023	LIFEGUARD SHORTS		1,467.39
Check	07/13/2023	8873 Accounts Payable	FEDEX		35.60
	Invoice	Date	Description		Amount
	8-164-31187	06/16/2023	PACKAGE DELIVERY - 6/7/23		17.80

	8-171-34880		06/23/2023	PACKAGE DELIVERY - 6/15/23	17.80
Check	07/13/2023	8874 Accounts Payable		FIDELITY SECURITY LIFE INSURANCE/EYEMED	2,338.35
	Invoice		Date	Description	Amount
	165838229		07/11/2023	EYEMED - JULY 2023 PREMIUMS	2,298.89
	165825130		07/11/2023	EYEMED COBRA - JULY 2023 PREMIUMS	39.46
Check	07/13/2023	8875 Accounts Payable		MITCHELL FRENTESCU	277.72
	Invoice		Date	Description	Amount
	0626-062923EXP		07/11/2023	MILEAGE-TRACY PD-RADAR/LIDAR COURSE	277.72
Check	07/13/2023	8876 Accounts Payable		FRONTIER BUILDING PRODUCTS PACIFIC, INC	4,275.00
	Invoice		Date	Description	Amount
	4-26-832101		04/26/2023	FS #27 COIL CORD, AIR HOSE AND FRAYED CABLE SERVICE 4/26/23	2,150.00
	4-26-832071		04/26/2023	FS #29 SINTALL FINISH UP, AIR HOSE AND COIL 4/26/23	2,125.00
Check	07/13/2023	8877 Accounts Payable		GAMETIME	5,283.00
	Invoice		Date	Description	Amount
	PJI-0210801		06/16/2023	PLAYGROUND REPLACEMENT PARTS	5,283.00
Check	07/13/2023	8878 Accounts Payable		GHA TECHNOLOGIES, INC.	29,581.25
	Invoice		Date	Description	Amount
	11301247		05/25/2023	MDC KEYBOARDS	1,482.06
	11305672		06/16/2023	JUNIPER SWITCHES WARRANTY	12,695.88
	11303415		06/05/2023	JUNIPER SWITCHES	15,403.31
Check	07/13/2023	8879 Accounts Payable		GROUP 4 ARCHITECTURE RESEARCH + PLANNING, INC.	3,348.87
	Invoice		Date	Description	Amount
	11730		05/31/2023	REIMBURSABLES AND PROFESSIONAL SERVICES RENDERED THROUGH 5/31/23	3,348.87
Check	07/13/2023	8880 Accounts Payable		HIROSHI ICHIMURA	3,481.20
	Invoice		Date	Description	Amount
	0506-062423		06/24/2023	KENDO CLASSES 5/6-6/24/23	3,481.20
Check	07/13/2023	8881 Accounts Payable		YAMA HOMAYOUN	523.96
	Invoice		Date	Description	Amount
	0626-062823EXP		07/11/2023	SBLI SESSION 8-RANCHO MURIETA	523.96
Check	07/13/2023	8882 Accounts Payable		ALONZO MADRID	24,937.00
	Invoice		Date	Description	Amount
	2313112-1		05/31/2023	WIRELESS MICROPHONE UPGRADE	24,937.00
Check	07/13/2023	8883 Accounts Payable		BULBULNAZ JALALIDIN (NAZ)	132.90
	Invoice		Date	Description	Amount
	06192023EXP		06/19/2023	REFRESHMENTS SMALL BUS. EMERG. PREP. WRKSHP. - 3RD SESSION 6/23	132.90
Check	07/13/2023	8884 Accounts Payable		JEFF'S MOBILE GLASS INC.	537.63
	Invoice		Date	Description	Amount
	IJMG-0623-81240		06/23/2023	GLASS REPAIR 6/23/23	537.63
Check	07/13/2023	8885 Accounts Payable		THE RROOAR [illegible]	1,710.00

	Invoice	Date	Description	Amount
	0619-062323	06/22/2023	RROOAR CODING & ROBOTICS 6/19-6/23/23	1,710.00
Check	07/13/2023	8886 Accounts Payable	KBA DOCUMENT SOLUTIONS, LLC	15.00
	Invoice	Date	Description	Amount
	55Y1354062	03/17/2023	COPIER LEASE YEAR 1 OF 5 - SUPPLIES	15.00
Check	07/13/2023	8887 Accounts Payable	NAPA AUTO PARTS	3,008.94
	Invoice	Date	Description	Amount
	JUN' 23	06/30/2023	NAPA - FLEET SUPPLIES JUNE '23	3,008.94
Check	07/13/2023	8888 Accounts Payable	L.N. CURTIS AND SONS	24,958.00
	Invoice	Date	Description	Amount
	PINV817452	06/20/2023	GAS MASKS AND FILTRATION CANNISTERS	24,958.00
Check	07/13/2023	8889 Accounts Payable	LEXISNEXIS RISK DATA MANAGEMENT INC.	50.00
	Invoice	Date	Description	Amount
	1845802-20230630	06/30/2023	INVESTIGATIVE INFO RESEARCH - 6/30/23	50.00
Check	07/13/2023	8890 Accounts Payable	LIEBERT CASSIDY WHITMORE	85.00
	Invoice	Date	Description	Amount
	243497	05/31/2023	PROFESSIONAL SERVICES RENDERED THROUGH MAY 31, 2023	85.00
Check	07/13/2023	8891 Accounts Payable	MARCI MANUEL	128.90
	Invoice	Date	Description	Amount
	062623EXP	07/10/2023	DISPATCHER HEADSET	128.90
Check	07/13/2023	8892 Accounts Payable	MARK GOTHARD	4,538.40
	Invoice	Date	Description	Amount
	0330-061523	06/22/2023	KARATE CLASSES FOR 3/30-6/15/23	4,538.40
Check	07/13/2023	8893 Accounts Payable	BRICK TECH	1,717.50
	Invoice	Date	Description	Amount
	0626-063023	07/11/2023	BRICK TECH CAMP CLASSES - 6/26 - 6/30/23	1,717.50
Check	07/13/2023	8894 Accounts Payable	MEYERS NAVE, A PROFESSIONAL CORPORATION	33,742.27
	Invoice	Date	Description	Amount
	206357	06/21/2023	LEGAL SERVICES - CARGILL FRANCHISE AGREEMENT - 05/31/23	235.50
	204359	04/27/2023	LEGAL SVCS - FMC WILLOW - SVCS THRU 3/31/23	707.00
	206355	06/21/2023	LEGAL SVCS - FMC WILLOW - SVCS THRU 5/31/23	630.50
	206352	06/21/2023	PROFESSIONAL SERVICES RENDERED THROUGH MAY 31, 2023	314.27
	206358	06/21/2023	PROFESSIONAL SERVICES RENDERED THROUGH MAY 31, 2023	9,089.40
	206359	06/21/2023	PROFESSIONAL SERVICES RENDERED THROUGH MAY 31, 2023	1,940.40
	206360	06/21/2023	PROFESSIONAL SERVICES RENDERED THROUGH MAY 31, 2023	4,610.70
	206361	06/21/2023	PROFESSIONAL SERVICES RENDERED THROUGH MAY 31, 2023	3,687.00
	206366	06/21/2023	PROFESSIONAL SERVICES RENDERED THROUGH MAY 31, 2023	3,482.00
	206367	06/21/2023	PROFESSIONAL SERVICES RENDERED THROUGH MAY 31, 2023	455.40
	206368	06/21/2023	PROFESSIONAL SERVICES RENDERED THROUGH MAY 31, 2023	7,782.60
	204358	04/27/2023	LEGAL SVCS - NEWPARK MALL REDEVELOPMENT - THRU 3/31/23	471.00

	206354	06/21/2023	LEGAL SVCS - NEWPARK MALL REDEVELOPMENT - THRU 5/31/23	336.50
Check	07/13/2023	8895 Accounts Payable	MISSION LINEN SUPPLY - UNIFORM	5,674.56
	Invoice	Date	Description	Amount
	MAR' 23	03/31/2023	UNIFORM/MATS MARCH 2023	2,346.69
	JUN' 23	06/30/2023	UNIFORM/MATS JUNE 2023	3,327.87
Check	07/13/2023	8896 Accounts Payable	NETWORK CONTRACTING LLC	380.00
	Invoice	Date	Description	Amount
	4223	06/16/2023	NETWORK CONSULTING SERVICES 6/16/23	190.00
	4214	06/09/2023	NETWORK CONSULTING SERVICES 6/8/23	190.00
Check	07/13/2023	8897 Accounts Payable	AVENU INSIGHTS & ANALYTICS	10,000.00
	Invoice	Date	Description	Amount
	INV06-016752	07/10/2023	UUT AUDIT & ANALYSIS - FIXED FEE APR - JUN '23	10,000.00
Check	07/13/2023	8898 Accounts Payable	KIDZ LOVE SOCCER	7,957.80
	Invoice	Date	Description	Amount
	0414-060423	06/22/2023	KIDZ LOVE SOCCER CLASSES 4/14-6/4/23	7,957.80
Check	07/13/2023	8899 Accounts Payable	OPENING TECHNOLOGIES, INC.	912.72
	Invoice	Date	Description	Amount
	2211636	06/22/2023	CITY HALL DOOR ADJUSTMENT 6/13/23	912.72
Check	07/13/2023	8900 Accounts Payable	OSBORNE LUMBER COMPANY, INC.	51.64
	Invoice	Date	Description	Amount
	578253	06/23/2023	LUMBER	51.64
Check	07/13/2023	8901 Accounts Payable	PERFORMANCE PEST MANAGEMENT	267.00
	Invoice	Date	Description	Amount
	69090	06/23/2023	PEST SERVICES - CITY HALL #102699 6/23/23	267.00
Check	07/13/2023	8902 Accounts Payable	PREFERRED ALLIANCE INC	455.00
	Invoice	Date	Description	Amount
	0187285-IN	05/31/2023	RANDOM & NON RANDOM DRUG TESTING - MAY '23	65.00
	0187463-IN	06/30/2023	RANDOM & NON RANDOM DRUG TESTING - JUN '23	390.00
Check	07/13/2023	8903 Accounts Payable	RELIABLE TRANSLATIONS INC.	555.00
	Invoice	Date	Description	Amount
	24891	05/16/2023	INTERP/TRNSL SVCS-DIGITAL MRKTNG WRKSHP 5/16/23	162.00
	24946	05/22/2023	INTERP/TRNSL SVCS-DIGITAL MRKTNG WRKSHP 5/22/23	162.00
	25198	06/21/2023	INTERP/TRNSL SVCS-MEET. CITY ADVISOR W/BUSINESS OWNER 6/21/23	231.00
Check	07/13/2023	8904 Accounts Payable	REVENUE & COST SPECIALIST, LLC	8,745.00
	Invoice	Date	Description	Amount
	9149	06/21/2023	PROFESSIONAL SERVICES FOR COST ALLOCATIONS & USER FEE STUDY	8,745.00
Check	07/13/2023	8905 Accounts Payable	RUTAN & TUCKER, LLP	4,567.50
	Invoice	Date	Description	Amount
	964037	06/28/2023	AREA 4 CEQA - SVCS THRU 5/31/23	892.50
	958207	04/25/2023	AREA 4 CEQA - SVCS THRU 3/31/23	3,675.00
Check	07/13/2023	8906 Accounts Payable	S & S WORLDWIDE, INC.	2,427.58

	Invoice	Date	Description	Amount
	IN101214694	06/16/2023	GAMES AND VARIOUS SUPPLIES	1,967.59
	IN101215682	06/20/2023	FACILITY GAMES AND SUPPLIES	459.99
Check	07/13/2023	8907 Accounts Payable	SAVAGE TRAINING GROUP LLC	608.00
	Invoice	Date	Description	Amount
	STG-7562	07/10/2023	DISPATCH PRIMING-LUZ B 12/14/23	304.00
	STG-7561	07/10/2023	DISPATCH PRIMING-SIMON 12/14/23	304.00
Check	07/13/2023	8908 Accounts Payable	SLOAN SAKAI YEUNG & WONG LLP	375.00
	Invoice	Date	Description	Amount
	52206	05/31/2023	LEGAL ADVICE/NEGOTIATIONS - 05/22 - 05/26/23	375.00
Check	07/13/2023	8909 Accounts Payable	STANDARD INSURANCE COMPANY	1,478.70
	Invoice	Date	Description	Amount
	JULY 2023	07/11/2023	STANDARD - JULY 2023 PREMIUMS	1,478.70
Check	07/13/2023	8910 Accounts Payable	STAPLES	911.02
	Invoice	Date	Description	Amount
	8070612639	06/15/2023	OFFICE SUPPLIES 5/24 - 6/14/23	911.02
Check	07/13/2023	8911 Accounts Payable	T-MOBILE	147.76
	Invoice	Date	Description	Amount
	966241989-062023	06/21/2023	IPHONE SVC 05/21-06/20/23	147.76
Check	07/13/2023	8912 Accounts Payable	TARGET SPECIALTY PRODUCTS	4,342.12
	Invoice	Date	Description	Amount
	INVP501184967	06/20/2023	PARK SUPPLIES-GALLERY 75DF	3,024.59
	INVP501184969	06/20/2023	PARK SUPPLIES - GARLON 4 ULTRA	1,317.53
Check	07/13/2023	8913 Accounts Payable	TEMPERATURE TECHNOLOGY INC.	2,021.18
	Invoice	Date	Description	Amount
	I2535	06/23/2023	SILLIMAN HVAC REPAIR AND MAINTENANCE 6/23/23	2,021.18
Check	07/13/2023	8914 Accounts Payable	UNIVERSAL BUILDING SERVICES & SUPPLY	50,064.00
	Invoice	Date	Description	Amount
	2023-0501	05/31/2023	JANITORIAL SERVICES - CITYWIDE MAY 2023	36,923.00
	514217	05/31/2023	JANITORIAL SERVICES - LIBRARY MAY2023	4,965.00
	514962	05/31/2023	JANITORIAL SERVICES - PD MAY5/22-5/23/23	912.00
	514963	05/31/2023	JANITORIAL SERVICES - PD ADDITIONAL SERVICES 5/11/23	378.00
	514964	05/31/2023	JANITORIAL SERVICES - LIBRARY ADDITIONAL SERVICES 5/11/23	570.00
	514965	05/31/2023	JANITORIAL SERVICES - CITY HALL 5/20/23	220.00
	514966	05/31/2023	JANITORIAL SERVICES - SILLIMAN 5/18-5/19/23	852.00
	514967	05/31/2023	JANITORIAL SERVICES-LIBRARY 5/31/23	2,280.00
	514968	05/31/2023	JANITORIAL SERVICES - CITY HALL 5/31/23	2,280.00
	514969	05/31/2023	JANITORIAL SERVICES - SENIOR CENTER 5/17/23	228.00
	514970	05/31/2023	JANITORIAL SERVICES - COMMUNITY CENTER 5/16-5/17/23	228.00
	514971	05/31/2023	JANITORIAL SERVICES - COMMUNITY CENTER ANNEX 5/16/23	228.00
Check	07/13/2023	8915 Accounts Payable	UTILITY TELECOM GROUP, LLC	19,187.88
	Invoice	Date	Description	Amount

	JUNE '23		06/16/2023	TELEPHONE & NETWORK PROVIDER - JUNE '23	19,187.88
Check	07/13/2023	8916 Accounts Payable		D. REG PHILLIPS SERVICE CENTER INC.	853.00
	Invoice		Date	Description	Amount
	23511		06/12/2023	CATGUARD KITS	853.00
Check	07/13/2023	8917 Accounts Payable		WASHINGTON HOSPITAL	175.00
	Invoice		Date	Description	Amount
	0623-NPD-LB		07/05/2023	LAB TESTS JUNE 2023	175.00
Check	07/13/2023	8918 Accounts Payable		ZUMAR INDUSTRIES	5,682.11
	Invoice		Date	Description	Amount
	43627		06/23/2023	STREETS PERF TUBE AND ANCHORMATE	5,682.11
Check	07/13/2023	8919 Accounts Payable		CORDOVA , PAUL	1,000.00
	Invoice		Date	Description	Amount
	2022-5960		07/12/2023	ENCP2022-0142 RFND	1,000.00
Check	07/13/2023	8920 Accounts Payable		LOPEZ , EDWIN CARRENO	200.00
	Invoice		Date	Description	Amount
	2023-5785		07/10/2023	REFUND VEHICLE RELEASE FEE	200.00

AP ZBA ACCOUNTS PAYABLE Totals: Transactions: 67 $521,524.76

Checks: 67 $521,524.76

LIVE Newark CA LIVE

Payment Batch Register

Bank Account: AP - ZBA ACCOUNTS PAYABLE

Batch Date: 07/20/2023

Type	Date	Number Source	Payee Name	EFT Bank/Account	Transaction Amount
Bank Account: AP - ZBA ACCOUNTS PAYABLE					
Check	07/20/2023	8921 Accounts Payable	ACCESS		200.00
	Invoice	Date	Description		Amount
	10344795	06/30/2023	SHREDDING SVCS JUNE 2023		200.00
Check	07/20/2023	8922 Accounts Payable	AIRGAS USA, LLC		125.56
	Invoice	Date	Description		Amount
	5500654564	06/30/2023	CYL ACETYLENE RENTAL 06/30/23		90.20
	9139583198	06/29/2023	FLEET WIRE MIG E71T		35.36
Check	07/20/2023	8923 Accounts Payable	ALAMEDA COUNTY FIRE DEPARTMENT		1,095.07
	Invoice	Date	Description		Amount
	2022-23-395	06/28/2023	FIRE TRUCK REPAIR #252 06/22/23		198.15
	2022-23-390	06/27/2023	FIRE TRUCK REPAIR #252 - 06/06/23		896.92
Check	07/20/2023	8924 Accounts Payable	ALAMEDA COUNTY SHERIFF'S OFFICE		735.65
	Invoice	Date	Description		Amount
	PPE 7.8.23	07/13/2023	GARNISH - CASE 21CV000937 - 6.25.23-7.8.23		735.65
Check	07/20/2023	8925 Accounts Payable	ALLIED AUTO STORES INC		817.46
	Invoice	Date	Description		Amount
	JUN' 23	06/30/2023	FLEET SUPPLIES JUNE '23		817.46
Check	07/20/2023	8926 Accounts Payable	ANKAR CYCLES, INC DBA OAKLAND HARLEY-DAVIDSON		5,723.07
	Invoice	Date	Description		Amount
	1052337	05/31/2023	MOTORCYCLE SERVICE 5/30/23		1,917.50
	1051141	05/18/2023	MOTORCYCLE SERVICE 05/16-05/17/23		1,462.40
	1052316	05/31/2023	MOTORCYCLE SERVICE 05/24-05/26/23		2,343.17
Check	07/20/2023	8927 Accounts Payable	APPLIED AIR FILTERS		814.70
	Invoice	Date	Description		Amount
	46719	06/02/2023	AIR FILTERS: YARD, COMMUNITY, CITY HALL AND SENIOR CENTER		814.70
Check	07/20/2023	8928 Accounts Payable	BAIRD + DRISKELL COMMUNITY PLANNING		26,507.50
	Invoice	Date	Description		Amount
	1513	07/19/2023	HOUSING ELEMENT UPDATE PREPARATION - SVCS THRU 6/23		26,507.50
Check	07/20/2023	8929 Accounts Payable	BAY CENTRAL PRINTING		128.54

	Invoice	Date	Description	Amount
	195945	06/27/2023	BUSINESS CARD IMPRINTING - DAVID HIGBEE	64.27
	195971	06/29/2023	BUSINESS CARD IMPRINTING - ARGUELLO	64.27
Check	07/20/2023	8930 Accounts Payable	BAY ISLAND OFFICIALS ASSOCIATION	1,856.00
	Invoice	Date	Description	Amount
	JUNE302023	06/30/2023	OFFICIATING FOR BASKETBALL AND VOLLEYBALL GAMES FOR JUNE '23	1,856.00
Check	07/20/2023	8931 Accounts Payable	BURTON'S FIRE INC	105.95
	Invoice	Date	Description	Amount
	S 61038	06/27/2023	FIRE TRUCK FOOTMAN LOOPS AND STRAP	105.95
Check	07/20/2023	8932 Accounts Payable	CARBONIC SERVICE	529.10
	Invoice	Date	Description	Amount
	515967	06/30/2023	POOL CHEMICALS	529.10
Check	07/20/2023	8933 Accounts Payable	BEACON VETERINARY SPECIALISTS	1,790.50
	Invoice	Date	Description	Amount
	139304	04/15/2023	VET SVCS 04/09-4/15/23	200.00
	138912	04/04/2023	VET SVCS 04/03/23	150.00
	141832	06/19/2023	VET SVCS 04/22/23	150.00
	139789	04/27/2023	VET SVCS 04/26/23	94.80
	140483	05/16/2023	VET SVCS 05/15/23	175.00
	140723	05/22/2023	VET SVCS 05/19/2023	90.70
	140724	05/22/2023	VET SVCS 05/19/2023	180.00
	140725	05/22/2023	VET SVCS 05/20/23	150.00
	141017	05/30/2023	VET SVCS 05/25/23	150.00
	141098	06/01/2023	VET SVCS 05/26/23	150.00
	141018	05/27/2023	VET SVCS 05/27/23	150.00
	141237	05/31/2023	VET SVCS 05/31/2023	150.00
Check	07/20/2023	8934 Accounts Payable	APRO LLC	150.00
	Invoice	Date	Description	Amount
	060123-063023	06/30/2023	CAR WASH 06/01-06/30/23	150.00
Check	07/20/2023	8935 Accounts Payable	CINDY K. HULL & ASSOCIATES - FORENSIC CONSULTING	210.00
	Invoice	Date	Description	Amount
	142	06/30/2023	LATENT PRINT ANALYSIS JUNE 2023	210.00
Check	07/20/2023	8936 Accounts Payable	DAILY JOURNAL CORPORATION	267.50
	Invoice	Date	Description	Amount
	B3714679	06/29/2023	LEGAL ADVERTISING - 6/27/23	267.50
Check	07/20/2023	8937 Accounts Payable	EAST BAY LAWN MOWER	2,172.94
	Invoice	Date	Description	Amount
	38098	06/30/2023	PARK SUPPLIES	1,772.94
	38125	06/30/2023	PARK TOOL REPLACEMENTS	400.00
Check	07/20/2023	8938 Accounts Payable	ESA	45,297.08
	Invoice	Date	Description	Amount

	184237	05/04/2023	HOUSING ELEMENT UPDATE PREPARATION - SVCS 3/1/23 TO 3/31/23	5,693.63
	185019	05/27/2023	HOUSING ELEMENT UPDATE PREPARATION - SVCS 4/1/23 TO 4/30/23	20,704.25
	183247	03/31/2023	HOUSING ELEMENT UPDATE PREPARATION - SVCS 1/1/23 TO 2/28/23	1,560.00
	186237	06/30/2023	HOUSING ELEMENT UPDATE PREPARATION - SVCS 5/1/23 TO 5/31/23	17,339.20
Check	07/20/2023	8939 Accounts Payable	FEDEX	12.87
	Invoice	Date	Description	Amount
	8-178-14949	06/30/2023	PACKAGE DELIVERY 6/27/23	12.87
Check	07/20/2023	8940 Accounts Payable	FRANK BONETTI PLUMBING INC	4,118.45
	Invoice	Date	Description	Amount
	46407	06/28/2023	SILLIMAN WATER METER LEAK 6/28/23	4,118.45
Check	07/20/2023	8941 Accounts Payable	FREMONT FORD	731.39
	Invoice	Date	Description	Amount
	215814	06/30/2023	FLEET PARTS-BRAKE LINING KIT AND ROTARY ASY	731.39
Check	07/20/2023	8942 Accounts Payable	GACHINA LANDSCAPE MANAGEMENT, INC.	21,007.40
	Invoice	Date	Description	Amount
	E 209167B	06/01/2023	TREE MAINTENANCE CONTRACT JUNE 2023-CH, LIB, PD	3,500.00
	E 209167A	06/01/2023	TREE MAINTENANCE CONTRACT - JUNE 2023	17,507.40
Check	07/20/2023	8943 Accounts Payable	HDL COREN & CONE	4,081.25
	Invoice	Date	Description	Amount
	SIN027419	04/24/2023	PROPERTY TAX CONSULTING - APR - JUN 2023	4,081.25
Check	07/20/2023	8944 Accounts Payable	HINDERLITER DE LLAMAS & ASSOCIATES	7,699.18
	Invoice	Date	Description	Amount
	SIN028363-1	05/25/2023	SALES TAX AUDIT SERVICES Q4/2022	7,292.27
	SIN029065-1	06/20/2023	TRANSACTION TAX Q4/2022	406.91
Check	07/20/2023	8945 Accounts Payable	HILLYARD	4,886.39
	Invoice	Date	Description	Amount
	605094374	04/24/2023	BLDG AND SILLIMAN JANITORIAL SUPPLIES	4,886.39
Check	07/20/2023	8946 Accounts Payable	LORENZO HOULE	350.00
	Invoice	Date	Description	Amount
	071223EXP	07/12/2023	BOOT REIMBURSEMENT 7/12/23	350.00
Check	07/20/2023	8947 Accounts Payable	NICHOLAS ICASIANO	350.00
	Invoice	Date	Description	Amount
	071123EXP	07/03/2023	BOOT REIMBURSEMENT 7/11/23	350.00
Check	07/20/2023	8948 Accounts Payable	JAMES C WHEELER	600.00
	Invoice	Date	Description	Amount
	070623	06/29/2023	AQUATIC AUDIT SILLIMAN FAMILY CENTER - 06/19/23	600.00
Check	07/20/2023	8949 Accounts Payable	LAKESHORE LEARNING MATERIALS	1,778.36
	Invoice	Date	Description	Amount
	796693062123	06/21/2023	CHAIRS FOR CHILDCARE	1,778.36
Check	07/20/2023	8950 Accounts Payable	LANGUAGE LINE SERVICES	545.43

	Invoice	Date	Description	Amount
	11039458	06/30/2023	INTERPRETATION SVCS JUNE 2023	545.43
Check	07/20/2023	8951 Accounts Payable	BRIAN LEWIS	268.62
	Invoice	Date	Description	Amount
	071223EXP	07/12/2023	BOOT REIMBURSEMENT 7/12/23	268.62
Check	07/20/2023	8952 Accounts Payable	LEXISNEXIS RISK DATA MANAGEMENT INC.	424.20
	Invoice	Date	Description	Amount
	1415640-20230630	06/30/2023	BACKGROUND CHECKS JUNE 2023	424.20
Check	07/20/2023	8953 Accounts Payable	JOSUE LOPEZ-DUENAS	350.00
	Invoice	Date	Description	Amount
	071823EXP	07/03/2023	BOOT REIMBURSEMENT 7/18/23	350.00
Check	07/20/2023	8954 Accounts Payable	PATRICK MORRISSEY	525.00
	Invoice	Date	Description	Amount
	9934	07/03/2023	GIS PROFESSIONAL SERVICES 5/16-6/30/23	525.00
Check	07/20/2023	8955 Accounts Payable	CITY OF NEWARK	302.47
	Invoice	Date	Description	Amount
	0701-073123EXP	07/13/2023	REIMBURSEMENT FOR FOOD AND CAFE	302.47
Check	07/20/2023	8956 Accounts Payable	MNS ENGINEERS INC	26,328.88
	Invoice	Date	Description	Amount
	83687-R1	07/17/2023	ON-CALL PUBLIC WORKS CONSTRUCTION INSPECTION SERVICES 06/23	5,129.46
	83685	07/13/2023	ON-CALL PUBLIC WORKS CONSTRUCTION INSPECTION SERVICES 06/23	20,803.52
	83686	07/13/2023	ON-CALL PUBLIC WORKS CONSTRUCTION INSPECTION SERVICES 06/23	395.90
Check	07/20/2023	8957 Accounts Payable	NETWORK CONTRACTING LLC	190.00
	Invoice	Date	Description	Amount
	4235	06/30/2023	NETWORK CONSULTING SERVICES 6/27/23	190.00
Check	07/20/2023	8958 Accounts Payable	MUNICIPAL MAINTENANCE EQUIPMENT INC	413.76
	Invoice	Date	Description	Amount
	010885	06/30/2023	DROP DOWN SCREEN REPAIR 6/30/23 -SHORT PAID ON ORIGINAL PAYMENT	413.76
Check	07/20/2023	8959 Accounts Payable	NATIONAL DATA & SURVEYING SERVICES,	175.00
	Invoice	Date	Description	Amount
	23-080202	06/29/2023	TRAFFIC SURVEY - APA #23-92	175.00
Check	07/20/2023	8960 Accounts Payable	NET TRANSCRIPTS INC	304.41
	Invoice	Date	Description	Amount
	NT16142	06/30/2023	TRANSCRIPTION SVCS JUNE 2023	304.41
Check	07/20/2023	8961 Accounts Payable	PACIFIC GAS & ELECTRIC	1,733.17
	Invoice	Date	Description	Amount
	3926-070623	07/06/2023	ANNUAL ELECTRICITY FOR STREET/TRAFFIC LIGHTS 05/31-06/28/23	99.40
	1859-070623	07/06/2023	ANNUAL ELECTRICITY FOR STREET/TRAFFIC LIGHTS 05/31-06/28/23	1,129.60
	0870-070723	07/07/2023	ANNUAL ELECTRICITY FOR STREET/TRAFFIC LIGHTS 06/01-06/29/23	74.28

	0552-070523	07/05/2023	ANNUAL ELECTRICITY FOR STREET/TRAFFIC LIGHTS 05/27-06/27/23	85.97
	9045-070523	07/05/2023	ANNUAL ELECTRICITY FOR STREET/TRAFFIC LIGHTS 05/26-06/26/23	221.96
	2305-070323	07/03/2023	ANNUAL ELECTRICITY FOR STREET/TRAFFIC LIGHTS 05/26-06/26/23	121.96
Check	07/20/2023	8962 Accounts Payable	PAKPOUR CONSULTING GROUP, INC.	16,760.63
	Invoice	Date	Description	Amount
	4168	07/07/2023	ON-CALL CIVIL ENGINEERING PLAN REVIEW SERVICES 06/23	6,027.00
	4169	07/07/2023	ON-CALL CIVIL ENGINEERING PLAN REVIEW SERVICES 06/23	10,733.63
Check	07/20/2023	8963 Accounts Payable	PROVIDENT LIFE & ACCIDENT INSURANCE	96.14
	Invoice	Date	Description	Amount
	UNUM JUNE 2023	07/12/2023	UNUM - JUNE 2023 PREMIUMS	96.14
Check	07/20/2023	8964 Accounts Payable	REDFLEX TRAFFIC SYSTEMS, INC.	17,400.00
	Invoice	Date	Description	Amount
	INV0056984	06/30/2023	REDLIGHT CAMERA MONITORING JUNE 2023	17,400.00
Check	07/20/2023	8965 Accounts Payable	RUGGERI-JENSEN-AZAR	277.00
	Invoice	Date	Description	Amount
	90728	07/18/2023	ON-CALL CIVIL ENGINEERING DEVELOPMENT PLAN REVIEW SERVICES 06/23	277.00
Check	07/20/2023	8966 Accounts Payable	S & S WORLDWIDE, INC.	1,821.21
	Invoice	Date	Description	Amount
	IN101221767	06/29/2023	CAMP NEWARK SUPPLIES	1,483.20
	IN101222502	06/30/2023	CAMP NEWARK SUPPLIES	202.98
	IN101221165	06/29/2023	CAMP NEWARK CRAFTS SUPPLIES	135.03
Check	07/20/2023	8967 Accounts Payable	LEHR	12,846.58
	Invoice	Date	Description	Amount
	SI89150	06/28/2023	FORD EXPORER OUTFITTING PROJ 2023-05	12,846.58
Check	07/20/2023	8968 Accounts Payable	LEHR	124.66
	Invoice	Date	Description	Amount
	SI89365	06/30/2023	SEATBELT RETRACTOR	124.66
Check	07/20/2023	8969 Accounts Payable	SYSCO - SAN FRANCISCO	3,286.72
	Invoice	Date	Description	Amount
	550824908	06/12/2023	CAFE AND CAMP FOOD PURCHASES	1,429.73
	550838430	06/19/2023	CAFE AND CAMP FOOD PURCHASES	1,423.42
	550820831	06/10/2023	CAFE/BDAY PARTY/CAMP FOOD PURCHASES	49.26
	550825254	06/12/2023	CAFE AND CAMP FOOD PURCHASES	384.31
Check	07/20/2023	8970 Accounts Payable	TEMPERATURE TECHNOLOGY INC.	792.50
	Invoice	Date	Description	Amount
	I2526	06/23/2023	SILLIMAN HVAC REPAIR AND MAINTENANCE 6/20/23	792.50
Check	07/20/2023	8971 Accounts Payable	THE ECOHERO SHOW LLC	600.00
	Invoice	Date	Description	Amount
	2382	03/31/2023	RECYCLING AND WASTE REDUCTION OUTREACH TO SCHOOLS 03/01-03/28/23	600.00
Check	07/20/2023	8972 Accounts Payable	THE GOODYEAR TIRE & RUBBER COMPANY	577.21

	Invoice	Date	Description	Amount
	184-1099172	06/28/2023	TIRE SERVICE 6/28/23	577.21
Check	07/20/2023	8973 Accounts Payable	TURBO DATA SYSTEMS, INC	746.00
	Invoice	Date	Description	Amount
	40544	07/30/2023	E-CITATION HARDWARE AND TRAFFIC PROCESSING - JUNE 2023	746.00
Check	07/20/2023	8974 Accounts Payable	UNIVERSAL BUILDING SERVICES & SUPPLY	42,271.27
	Invoice	Date	Description	Amount
	2023-0601	06/30/2023	JANITORIAL SERVICES - CITYWIDE JUNE 2023	36,923.00
	515487	06/29/2023	JANITORIAL SERVICES - ASH SUMMER PROGRAM 6/16/23	135.00
	515488	06/29/2023	JANITORIAL SERVICES - ASH SUMMER PROGRAM 6/26-6/30/23	248.27
	515157	06/27/2023	JANITORIAL SERVICES - LIBRARY JUNE 2023	4,965.00
Check	07/20/2023	8975 Accounts Payable	BSN SPORTS LLC	1,229.34
	Invoice	Date	Description	Amount
	921990718	06/30/2023	SUPPLIES FOR YOUTH SPORTS	1,229.34
Check	07/20/2023	8976 Accounts Payable	WEST COAST ARBORISTS INC	71,408.05
	Invoice	Date	Description	Amount
	200852	05/31/2023	PARK TREE MAINT 05/16/23-05/31/23	4,815.00
	199649-A	04/30/2023	PART TREE MAINTENANCE 04/16/23-04/30/23	17,053.25
	198546	03/31/2023	PARK TREE MAINT 03/16/23-03/31/23	7,658.95
	199709-A	04/30/2023	STREET TREE MAINTENANCE 4/16/23-4/30/23	39,939.60
	199649	04/30/2023	PARK TREE MAINT 04/16/23-04/30/23	1,941.25
Check	07/20/2023	8977 Accounts Payable	WEX BANK	1,199.35
	Invoice	Date	Description	Amount
	90359256	07/06/2023	CHEVRON CC 06/07 - 06/30/23	1,199.35
Check	07/20/2023	8978 Accounts Payable	BERMILLO , ROMEO	1,000.00
	Invoice	Date	Description	Amount
	2024-00000046	07/18/2023	RETURNING SPECIAL EVENT PERMIT SECURITY DEPOSIT	1,000.00
Check	07/20/2023	8979 Accounts Payable	PERRY , JARED	1,000.00
	Invoice	Date	Description	Amount
	2023-3204	07/17/2023	ENCP2023-0015 RFND	1,000.00
EFT	07/20/2023	634 Accounts Payable	METROPOLITAN PLANNING GROUP 121042882 / 2016189470	15,156.25
	Invoice	Date	Description	Amount
	2003894REV	07/17/2023	38600 CEDAR BLVD - WAYMARK PRJCT - SVCS THRU 6/30/23	15,156.25

AP ZBA ACCOUNTS PAYABLE Totals: Transactions: 60 $354,295.76

Checks:	59	$339,139.51
EFTs:	1	$15,156.25

LIVE Newark CA LIVE

Payment Batch Register

Bank Account: AP - ZBA ACCOUNTS PAYABLE

Batch Date: 07/27/2023

Type	Date	Number Source	Payee Name	EFT Bank/Account	Transaction Amount
Bank Account: AP - ZBA ACCOUNTS PAYABLE					
Check	07/27/2023	8980 Accounts Payable	ALAMEDA COUNTY FIRE DEPARTMENT		961,086.33
	Invoice	Date	Description	Check Sort Code	Amount
	2022-23-438	07/27/2023	CONTRACT FIRE SERVICES - 06/23		961,086.33
Check	07/27/2023	8981 Accounts Payable	ALAMEDA COUNTY WATER DISTRICT		79,281.09
	Invoice	Date	Description	Check Sort Code	Amount
	0425-063023	07/11/2023	CITYWIDE WATER 04/25-06/30/23		79,281.09
Check	07/27/2023	8982 Accounts Payable	ALPINE AWARDS INC		108.52
	Invoice	Date	Description	Check Sort Code	Amount
	6103729	06/29/2023	DEPARTMENT NAME TAGS		108.52
Check	07/27/2023	8983 Accounts Payable	BARG COFFIN LEWIS & TRAPP, LLP		118.00
	Invoice	Date	Description	Check Sort Code	Amount
	47967	06/30/2023	LEGAL SERVICES - 6/16/23		118.00
Check	07/27/2023	8984 Accounts Payable	BKF ENGINEERS		70,963.13
	Invoice	Date	Description	Check Sort Code	Amount
	23050499	05/15/2023	LINDSEY TRACT DESIGN SERVICES, PROJECT 1238 04/01-04/30/23		70,199.63
	23060791	06/14/2023	LINDSEY TRACT DESIGN SERVICES, PROJECT 1238 05/01-05/28/23		763.50
Check	07/27/2023	8985 Accounts Payable	BLAISDELL'S BUSINESS PRODUCTS		1,308.95
	Invoice	Date	Description	Check Sort Code	Amount
	JUNE'23	06/30/2023	OFFICE SUPPLIES 5/30-6/28/23		1,308.95
Check	07/27/2023	8986 Accounts Payable	CA POLICE CHIEFS ASSOC		155.00
	Invoice	Date	Description	Check Sort Code	Amount
	1793	05/01/2023	2023-2024 CPCA ASSOCIATE MEMBER DUES-ARGUELLO		155.00
Check	07/27/2023	8987 Accounts Payable	CALIFORNIA BUILDING OFFICIALS		3,965.00
	Invoice	Date	Description	Check Sort Code	Amount
	16434	06/15/2023	CALBO- TRAINING AND EDUCATION - 6/15/23		3,820.00
	16464	06/22/2023	CALBO- TRAINING AND EDUCATION - 6/22/23		145.00
Check	07/27/2023	8988 Accounts Payable	CLASSIC GRAPHICS		2,982.62
	Invoice	Date	Description	Check Sort Code	Amount
	47888	04/25/2023	LOGOS FOR NEW DODGE CHARGER 2023-01		1,491.31
	47887	04/25/2023	LOGOS FOR NEW DODGE CHARGER 2023-02		1,491.31

Check	07/27/2023	8989	Accounts Payable	CITY OF NEWARK	481.58

Invoice	Date	Description	Check Sort Code	Amount
0201-022123EXP	02/21/2023	DANCE REVUE SUPPLY REIMBURSEMENT		13.67
0401-041523EXP	04/15/2023	DANCE REVUE SUPPLY REIMBURSEMENT		36.95
0505-051923EXP	05/01/2023	DANCE REVUE SUPPLY REIMBURSEMENT		430.96

Check	07/27/2023	8990	Accounts Payable	ALAMEDA COUNTY INFORMATION TECHNOLOGY DEPARTMENT	3,407.50

Invoice	Date	Description	Check Sort Code	Amount
112-2306036	07/18/2023	AWS ACCESS FEE JUNE 2023		3,407.50

Check	07/27/2023	8991	Accounts Payable	CRITICAL REACH, INC.	710.00

Invoice	Date	Description	Check Sort Code	Amount
2728	12/08/2022	APBNET ANNUAL SUPPORT FY 22/23		710.00

Check	07/27/2023	8992	Accounts Payable	CSMFO	150.00

Invoice	Date	Description	Check Sort Code	Amount
200014605	10/10/2022	VIRTUAL SESSION - CONFERENCE KRYSTEN LEE 10/10/2022		150.00

Check	07/27/2023	8993	Accounts Payable	DPREP INC.	795.00

Invoice	Date	Description	Check Sort Code	Amount
082423-JK	07/13/2023	DUI CHECKPOINT PLANNING		159.00
082523-KF	07/13/2023	PRELIMINARY ALCOHOL SCREENING INSTRUMENTS		159.00
082523-JK	07/13/2023	PAS INSTRUMENTS		159.00
082523-MF	07/13/2023	PAS INSTRUMENTS		159.00
082423-MF	07/13/2023	DUI CHECKPOINT PLANNING		159.00

Check	07/27/2023	8994	Accounts Payable	GOVCONNECTION, INC	26,900.51

Invoice	Date	Description	Check Sort Code	Amount
74233511	06/30/2023	CREDIT TO PO 2023-00001063 - 1 TOWER		(1,898.26)
74239194	06/30/2023	CREDIT TO PO 2023-00001063 - 2 TOWER		(3,796.51)
74215544	06/30/2023	CREDIT TO PO 2023-00001063 - WARRANTY		(738.72)
74249316	06/30/2023	ENGINEER TOWERS - APPROVED #2023-14		2,462.40
74233605	06/30/2023	ENGINEER TOWERS - APPROVED #2023-14		1,405.42
74185165	06/30/2023	ENGINEER TOWERS - APPROVED #2023-14		4,241.73
74180900	06/30/2023	ENGINEER TOWERS - APPROVED #2023-14		16,966.90
74162204	06/30/2023	ENGINEER TOWERS - APPROVED #2023-14		1,051.04
74165654	06/30/2023	ENGINEER TOWERS - APPROVED #2023-14		106.32
74156722	06/30/2023	ENGINEER TOWERS - APPROVED #2023-14		7,100.19

Check	07/27/2023	8995	Accounts Payable	GRAINGER	220.97

Invoice	Date	Description	Check Sort Code	Amount
9413523177	08/17/2022	BLDG VAPOR TIGHT FIXTURE		212.22
9414013996	08/17/2022	BLDG WATER SLINGER		8.75

Check	07/27/2023	8996	Accounts Payable	INTEGRITY SURVEILLANCE GROUP	998.00

Invoice	Date	Description	Check Sort Code	Amount
15235	06/30/2023	YEARLY TRACKER RENEWAL 7/31/2023		998.00

Check	07/27/2023	8997	Accounts Payable	KRYSTEN LEE	200.00

Invoice	Date	Description	Check Sort Code	Amount

	063023EXP	07/27/2023	EXPENSE REIMBURSEMENT - JUN '23		200.00
Check	07/27/2023	8998 Accounts Payable	MACLEOD WATTS, INC.		1,150.00
	Invoice	Date	Description	Check Sort Code	Amount
	063023NEWAR	07/27/2023	ACTUARIAL VALUATION & REPORT - GASB 68 JUN '23		1,150.00
Check	07/27/2023	8999 Accounts Payable	JANELLE MESINGER		302.47
	Invoice	Date	Description	Check Sort Code	Amount
	0701-073123EXP	07/13/2023	REIMBURSEMENT FOR FOOD AND CAFE		302.47
Check	07/27/2023	9000 Accounts Payable	MEYERS NAVE, A PROFESSIONAL CORPORATION		427.50
	Invoice	Date	Description	Check Sort Code	Amount
	197938	09/16/2022	LEGAL SERVICES RENDERED THROUGH AUGUST 31, 2022		427.50
Check	07/27/2023	9001 Accounts Payable	MICHAEL STEVEN YORKS		225.00
	Invoice	Date	Description	Check Sort Code	Amount
	2023-31	06/28/2023	BACKGROUND INVESTIGATIONS 05/22-6/28/23		225.00
Check	07/27/2023	9002 Accounts Payable	MIKE YORKS INVESTIGATIONS		9,225.00
	Invoice	Date	Description	Check Sort Code	Amount
	2023-32	07/01/2023	BACKGROUND INVESTIGATIONS 05/17-06/28/23		375.00
	2023-22	07/02/2023	BACKGROUND INVESTIGATIONS 05/06-06/28/23		3,075.00
	2023-29	07/01/2023	BACKGROUND INVESTIGATIONS 05/17-06/28/23		3,075.00
	2023-25	07/24/2023	BACKGROUND INVESTIGATIONS 05/12-07/17/2023		2,700.00
Check	07/27/2023	9003 Accounts Payable	PACIFIC GAS & ELECTRIC		81,687.58
	Invoice	Date	Description	Check Sort Code	Amount
	7578-071323	07/13/2023	CITYWIDE ELECTRICAL JUNE '23		81,687.58
Check	07/27/2023	9004 Accounts Payable	CAL COAST TELECOM		12,600.00
	Invoice	Date	Description	Check Sort Code	Amount
	INV-000647	06/01/2023	ANNUAL SERVICE MAINTENANCE FY24		12,600.00
Check	07/27/2023	9005 Accounts Payable	BAY AREA JUMP		952.75
	Invoice	Date	Description	Check Sort Code	Amount
	249964	07/28/2023	JUMPER FOR ASH STREET - 5/28/23		560.75
	249956	07/14/2023	JUMPERS FOR ASH STREET - 7/14/23		392.00
Check	07/27/2023	9006 Accounts Payable	REGIONAL GOVERNMENT SERVICES AUTHORITY		4,800.00
	Invoice	Date	Description	Check Sort Code	Amount
	TRAINING 0627	06/27/2023	FALL 2023 ANALYST BOOT CAMP - SHEENA RAJ		2,400.00
	072523EXP	07/25/2023	FOR FALL 2023 VIRTUAL ANALYST BOOT CAMP - KRYSTEN LEE		2,400.00
Check	07/27/2023	9007 Accounts Payable	JAMES SCANLIN		52.65
	Invoice	Date	Description	Check Sort Code	Amount
	061723EXP	06/17/2023	EXPENSE REIMBURSEMENT 061723EXP		52.65
Check	07/27/2023	9008 Accounts Payable	YORK RISK SERVICE GROUP, INC. A SEDGWICK COMPANY		7,056.00
	Invoice	Date	Description	Check Sort Code	Amount
	400000136172	05/05/2023	WORKERS COMPENSATION CLAIMS - 05/01/2023-05/31/2023		3,528.00

	400000139784	06/06/2023	WORKERS COMPENSATION CLAIMS - 06/01/2023-06/30/2023		3,528.00
Check	07/27/2023	9009 Accounts Payable	GRILLAXIN BBQ SERVICE, LLC		5,155.50
	Invoice	Date	Description	Check Sort Code	Amount
	072723	07/20/2023	CATERING SERVICES FOR ASH STREET BBQ		5,155.50
Check	07/27/2023	9010 Accounts Payable	STAPLES		1,548.46
	Invoice	Date	Description	Check Sort Code	Amount
	8070763598	06/30/2023	OFFICE SUPPLIES 6/14-6/30/23		1,548.46
Check	07/27/2023	9011 Accounts Payable	TEMPERATURE TECHNOLOGY INC.		775.00
	Invoice	Date	Description	Check Sort Code	Amount
	I2538	07/06/2023	SILLIMAN HVAC REPAIR 6/26/23		775.00
Check	07/27/2023	9012 Accounts Payable	JENNIFER TRAN		66.55
	Invoice	Date	Description	Check Sort Code	Amount
	0601-063023EXP	07/24/2023	MILEAGE REIMBURSEMENT 06/01/23-06/30/23		66.55
Check	07/27/2023	9013 Accounts Payable	UNITED STATES POSTMASTER		3,900.00
	Invoice	Date	Description	Check Sort Code	Amount
	IN072123	07/21/2023	POSTAGE FOR FALL 2023 RECREATION POSTCARD		3,900.00
Check	07/27/2023	9014 Accounts Payable	D. REG PHILLIPS SERVICE CENTER INC.		992.00
	Invoice	Date	Description	Check Sort Code	Amount
	23511B	07/24/2023	CATGUARD KITS		992.00
Check	07/27/2023	9015 Accounts Payable	VERIZON WIRELESS		10,769.95
	Invoice	Date	Description	Check Sort Code	Amount
	9937537398	06/30/2023	WIRELESS SERVICE MAY 19 - JUN 18, 2023		10,769.95
Check	07/27/2023	9016 Accounts Payable	MARK LEWIS WAGNER		800.00
	Invoice	Date	Description	Check Sort Code	Amount
	040951	07/17/2023	COMMUNITY CHALK ARTIST FOR ASH ST BBQ 7/27/23		800.00
EFT	07/27/2023	635 Accounts Payable	CLIENTFIRST TECHNOLOGY CONSULTING	122037760 / 001064667052	7,146.95
	Invoice	Date	Description	Check Sort Code	Amount
	15285	06/30/2023	IT SUPPORT AND TRAVEL EXPENSES 4/1-6/30/2023		7,146.95

AP ZBA ACCOUNTS PAYABLE Totals:		Transactions: 38	$1,303,465.56
Checks:	37	$1,296,318.61	
EFTs:	1	$7,146.95	

LIVE Newark CA LIVE

Payment Batch Register

Bank Account: AP - ZBA ACCOUNTS PAYABLE

Batch Date: 08/03/2023

Type	Date	Number	Source	Payee Name	EFT Bank/Account	Transaction Amount
Bank Account: AP - ZBA ACCOUNTS PAYABLE						
Check	08/03/2023	9017	Accounts Payable	ABACUS PRODUCTS INC		1,050.92
	Invoice		Date	Description	Check Sort Code	Amount
	B72137		06/28/2023	CITY LETTERHEAD WINDOW ENVELOPES - 6/27/23		466.44
	B72138		06/28/2023	CITY LETTERHEAD SECURED ENVELOPES - 6/27/23		584.48
Check	08/03/2023	9018	Accounts Payable	AFLAC		893.28
	Invoice		Date	Description	Check Sort Code	Amount
	523338		07/25/2023	AFLAC - JULY 2023 PREMIUMS		893.28
Check	08/03/2023	9019	Accounts Payable	TREASURER OF ALAMEDA COUNTY		23,404.00
	Invoice		Date	Description	Check Sort Code	Amount
	070122-063023		06/23/2023	CAL ID OPERATING COSTS FY22-23		23,404.00
Check	08/03/2023	9020	Accounts Payable	ALAMEDA COUNTY SHERIFF'S OFFICE		735.65
	Invoice		Date	Description	Check Sort Code	Amount
	PPE 7.22.23		07/28/2023	GARNISHMENT - CASE 21CV000937		735.65
Check	08/03/2023	9021	Accounts Payable	AMERICAN NATIONAL RED CROSS		11,041.00
	Invoice		Date	Description	Check Sort Code	Amount
	29015868		07/13/2023	CPR MANIKINS		11,041.00
Check	08/03/2023	9022	Accounts Payable	AT&T		249.51
	Invoice		Date	Description	Check Sort Code	Amount
	2300-05012023		06/30/2023	CAPTION LISTING - 5/1-5/31/2023		138.08
	2300-06012023		06/30/2023	CAPTION LISTING - 06/01-06/30/2023		111.43
Check	08/03/2023	9023	Accounts Payable	BAIRD + DRISKELL COMMUNITY PLANNING		11,298.00
	Invoice		Date	Description	Check Sort Code	Amount
	1512		07/13/2023	ON CALL PLANNING SVCS - SVCS FOR 05/23 & 06/23		11,298.00
Check	08/03/2023	9024	Accounts Payable	BAY CENTRAL PRINTING		85.88
	Invoice		Date	Description	Check Sort Code	Amount
	196042		07/11/2023	BUSINESS CARDS FOR ESTHER JUNG		85.88
Check	08/03/2023	9025	Accounts Payable	CAL-WEST LIGHTING & SIGNAL MAINTENANCE		34,640.87
	Invoice		Date	Description	Check Sort Code	Amount

	230363	03/30/2023	FY22-23 TRAFFIC LIGHT MAINTENANCE 12/05/22		5,726.58
	230369	03/31/2023	FY22-23 TRAFFIC LIGHT MAINTENANCE 02/28-03/24/23		5,272.70
	230370	03/31/2023	FY22-23 TRAFFIC LIGHT MAINTENANCE 03/23		1,482.93
	230462	04/30/2023	FY22-23 TRAFFIC LIGHT MAINTENANCE 04/23		3,152.98
	230461	04/30/2023	FY22-23 TRAFFIC LIGHT MAINTENANCE 04/10-04/17/23		1,752.36
	230463	04/30/2023	FY22-23 TRAFFIC LIGHT MAINTENANCE PR#23-00483		4,966.87
	230611	06/30/2023	FY22-23 TRAFFIC LIGHT MAINTENANCE 06/23		3,234.92
	230506	05/31/2023	FY22-23 TRAFFIC LIGHT MAINTENANCE 05/23		3,886.72
	230505	05/31/2023	FY22-23 TRAFFIC LIGHT MAINTENANCE 05/05-05/24/23		2,649.26
	230612	06/30/2023	FY22-23 TRAFFIC LIGHT MAINTENANCE 06/23		2,515.55
Check	08/03/2023	9026 Accounts Payable	CENTRAL VALLEY TOXICOLOGY, INC.		450.00
	Invoice	Date	Description	Check Sort Code	Amount
	328228	06/02/2023	LAB TESTS 06/02/2023		40.00
	328360	06/09/2023	LAB TESTS 06/09/2023		40.00
	328361	06/09/2023	LAB TESTS 06/09/2023		125.00
	328533	06/16/2023	LAB TESTS 06/16/2023		125.00
	328538	06/16/2023	LAB TESTS 06/16/2023		40.00
	328544	06/16/2023	LAB TESTS 06/16/2023		40.00
	328813	06/28/2023	LAB TESTS 06/28/2023		40.00
Check	08/03/2023	9027 Accounts Payable	CLASSIC GRAPHICS		588.54
	Invoice	Date	Description	Check Sort Code	Amount
	47571	02/16/2023	DECAL REMOVAL 2/16/23		588.54
Check	08/03/2023	9028 Accounts Payable	CITY OF NEWARK		481.58
	Invoice	Date	Description	Check Sort Code	Amount
	0201-022123EXP	02/21/2023	DANCE REVUE SUPPLY REIMBURSEMENT		13.67
	0401-041523EXP	04/15/2023	DANCE REVUE SUPPLY REIMBURSEMENT		36.95
	0505-051923EXP	05/01/2023	DANCE REVUE SUPPLY REIMBURSEMENT		430.96
Check	08/03/2023	9029 Accounts Payable	CONSOR NORTH AMERICA, INC.		40,920.06
	Invoice	Date	Description	Check Sort Code	Amount
	N16N131CA.00-37	06/15/2023	CENTRAL AVE OVERPASS DESIGN SERVICES, PRJ 1014 03/01-04/30/23		40,920.06
Check	08/03/2023	9030 Accounts Payable	COUNTY OF ALAMEDA		3,110.00
	Invoice	Date	Description	Check Sort Code	Amount
	MARCH '23	04/05/2023	CITATION PROCESSING FEES - MARCH '23		930.00
	APRIL '23	05/04/2023	CITATION PROCESSING FEES - APRIL '23		887.50
	MAY '23	06/03/2023	CITATION PROCESSING FEES - MAY '23		745.00
	JUNE '23	07/07/2023	CITATION PROCESSING FEES - JUNE '23		547.50
Check	08/03/2023	9031 Accounts Payable	CRIME SCENE CLEANERS		208.00
	Invoice	Date	Description	Check Sort Code	Amount
	87419	06/24/2023	PATROL VEHICLE CLEANING 06/24/23		208.00
Check	08/03/2023	9032 Accounts Payable	DELTA DENTAL OF CALIFORNIA		17,374.72
	Invoice	Date	Description	Check Sort Code	Amount
	BE005633907	07/31/2023	DELTA PPO - AUGUST 2023 PREMIUMS		17,374.72
Check	08/03/2023	9033 Accounts Payable	DELTA DENTAL INSURANCE COMPANY		172.82
	Invoice	Date	Description	Check Sort Code	Amount

	BE005631988	07/31/2023	DELTA CARE - AUGUST 2023 PREMIUMS			172.82
Check	08/03/2023	9034 Accounts Payable	DEPARTMENT OF JUSTICE			4,061.00
	Invoice	Date	Description		Check Sort Code	Amount
	666263	06/30/2023	FINGERPRINTING FEES- 06/23			4,061.00
Check	08/03/2023	9035 Accounts Payable	ENVIRONMENTAL LOGISTICS			6,468.50
	Invoice	Date	Description		Check Sort Code	Amount
	119749	07/26/2023	HAZARDOUS WASTE REMOVAL 06/27/23			6,468.50
Check	08/03/2023	9036 Accounts Payable	EXTREME CANOPY			2,569.41
	Invoice	Date	Description		Check Sort Code	Amount
	DO49030	05/31/2023	RECRUITMENT ADVERTISEMENT SUPPLIES			2,569.41
Check	08/03/2023	9037 Accounts Payable	FIDELITY SECURITY LIFE INSURANCE/EYEMED			2,330.03
	Invoice	Date	Description		Check Sort Code	Amount
	165880519	07/31/2023	EYEMED - AUGUST 2023 PREMIUMS			2,330.03
Check	08/03/2023	9038 Accounts Payable	FREMONT FORD			3,470.69
	Invoice	Date	Description		Check Sort Code	Amount
	419439	07/26/2023	2016 FORD ESCAPE REPAIR #158			2,237.88
	216237	07/18/2023	FLEET MOULDING			110.58
	216238	07/18/2023	FLEET-SENSOR, BRAKE KIT, PAD, ROTOR AND BOLT			518.22
	216105	07/14/2023	FLEET-RADIATOR ASY			604.01
Check	08/03/2023	9039 Accounts Payable	G BORTOLOTTO & CO INC			106,131.62
	Invoice	Date	Description		Check Sort Code	Amount
	5065	07/06/2023	FY22-23 AC OVERLAY PGRM, PRJ 1300 06/01-06/30/23			106,131.62
Check	08/03/2023	9040 Accounts Payable	GEOCON CONSULTANTS, INC.			1,267.50
	Invoice	Date	Description		Check Sort Code	Amount
	223070120	07/21/2023	FY22/23 GEO-TECH CONSULTING SERVICES 06/23			1,267.50
Check	08/03/2023	9041 Accounts Payable	GIGANTIC IDEA STUDIO, INC.			3,905.25
	Invoice	Date	Description		Check Sort Code	Amount
	INV-4059	07/13/2023	RECYCLING & WASTE REDUCTION OUTREACH - 06/23			3,905.25
Check	08/03/2023	9042 Accounts Payable	GOVCONNECTION, INC			49,896.69
	Invoice	Date	Description		Check Sort Code	Amount
	74206379	06/14/2023	NEW HP COMPUTER PD CRIME ANALYST			2,842.44
	74201758	06/30/2023	NEW HP COMPTERS - NEW POSITIONS #2023-15			47,054.25
Check	08/03/2023	9043 Accounts Payable	GRAINGER			52.96
	Invoice	Date	Description		Check Sort Code	Amount
	9756369675	06/29/2023	FS AND CHILD CARE SUPPLIES			52.96
Check	08/03/2023	9044 Accounts Payable	SHEILA HARRINGTON			979.01
	Invoice	Date	Description		Check Sort Code	Amount
	0411-050523EXP	06/22/2023	CCAC ANNUAL CONFERENCE EXPENSES			979.01
Check	08/03/2023	9045 Accounts Payable	THE MEJORANDO GROUP			37,908.93

	Invoice	Date	Description	Check Sort Code	Amount
	39-2023.2	06/26/2023	TRAINING SERVICES- JANUARY 2023 - JUNE 2023 PAYMENT 2 OF 2		37,908.93
Check	08/03/2023	9046 Accounts Payable	IDN WILCO INC		695.88
	Invoice	Date	Description	Check Sort Code	Amount
	10163576-02	06/15/2023	SILLIMAN PREC PULL TRIM STOREROOM		269.80
	10163576-01	06/06/2023	BLDG PREC PULL TRIM, DRAWER LOCK HOUSING AND DOOR LATCH		155.97
	10185730-00	07/13/2023	SILLIMAN DRAWER LOCKING AND DOOR LATCH		105.95
	10163576-00	05/23/2023	BLDG PULL TRIM, DRAWER LOCK, PADLOCK AND DUMMY MORT CYC		164.16
Check	08/03/2023	9047 Accounts Payable	JOHN KAPU		795.00
	Invoice	Date	Description	Check Sort Code	Amount
	072223EXP	07/24/2023	CLASS REGISTRATION FEE - PAS CLASS		795.00
Check	08/03/2023	9048 Accounts Payable	KBA DOCUMENT SOLUTIONS, LLC		2,724.89
	Invoice	Date	Description	Check Sort Code	Amount
	55Y1380224	06/30/2023	COPIER LEASE YEAR 1 MAY - JUNE 2023		2,724.89
Check	08/03/2023	9049 Accounts Payable	KBA DOCUMENT SOLUTIONS		4,959.47
	Invoice	Date	Description	Check Sort Code	Amount
	96166	06/30/2023	LEASE PAYMENT 1900869004 - 6/15/23 - 7/14/23		224.76
	97733	06/30/2023	LEASE PAYMENT 1900869002 - 6/15/23 - 7/14/23		4,734.71
Check	08/03/2023	9050 Accounts Payable	LEGACY ROOFING & WATERPROOFING		525.00
	Invoice	Date	Description	Check Sort Code	Amount
	6009717-WO	03/30/2023	COMMUNITY ROOF REPAIR 3/2/23		525.00
Check	08/03/2023	9051 Accounts Payable	LIEBERT CASSIDY WHITMORE		935.00
	Invoice	Date	Description	Check Sort Code	Amount
	245571	06/30/2023	LEGAL SERVICES RENDERED THROUGH JUNE 30, 2023		935.00
Check	08/03/2023	9052 Accounts Payable	MEYERS NAVE, A PROFESSIONAL CORPORATION		9,902.60
	Invoice	Date	Description	Check Sort Code	Amount
	207453	07/21/2023	LEGAL SVCS FOR LEPAKSHI PROJECT - SVCS THRU 6/2023		151.50
	207446	07/21/2023	LEGAL SVCS FOR NEWPARK MALL REDEVELMT PROJECT - SVCS THRU 6/2023		756.50
	207447	07/21/2023	LEGAL SVCS FOR FMC WILLOW - SVCS THRU 6/30/23		101.00
	206364	06/21/2023	LEGAL SVCS FOR CEDAR BLVD TWNHMS (WAYMARK) SVCS THRU 5/31/23		3,282.00
	207454	07/21/2023	LEGAL SVCS FOR CEDAR BLVD TWNHMS (WAYMARK) SVCS THRU 6/30/23		2,640.50
	207459	07/21/2023	LEGAL SERVICES - CENTRAL AVENUE OVERPASS 06/23		1,393.50
	206369	06/21/2023	LEGAL SERVICES - CENTRAL AVENUE OVERPASS 05/23		1,577.60
Check	08/03/2023	9053 Accounts Payable	MIKE YORKS INVESTIGATIONS		4,350.00
	Invoice	Date	Description	Check Sort Code	Amount
	2023-26	07/10/2023	BACKGROUND INVESTIGATIONS 05/12-07/10/23		1,275.00
	2023-27	07/31/2023	BACKGROUND INVESTIGATIONS 5/8-7/31/23		3,075.00
Check	08/03/2023	9054 Accounts Payable	NAVIA BENEFIT SOLUTIONS CLIENT PAY		239.60
	Invoice	Date	Description	Check Sort Code	Amount

	10707904	05/30/2023	FY 22/23 COBRA ADMINISTRATION FEES-05/01/23 to 05/31/23		107.80
	10715662	06/29/2023	FY 22/23 COBRA ADMINISTRATION FEES-06/01/2023 to 06/30/23		131.80
Check	08/03/2023	9055 Accounts Payable	NEWARK VALERO #7117		1,139.10
	Invoice	Date	Description	Check Sort Code	Amount
	120722-061323	06/25/2023	FLEET FUEL 12/07/22-06/13/23		1,139.10
Check	08/03/2023	9056 Accounts Payable	PEREGRINE TECHNOLOGIES, INC.		99,500.00
	Invoice	Date	Description	Check Sort Code	Amount
	INV-0034	07/07/2023	PEREGRINE SOFTWARE LICENSE FY23/24		99,500.00
Check	08/03/2023	9057 Accounts Payable	THE PERMANENTE MEDICAL GROUP, INC.		1,141.00
	Invoice	Date	Description	Check Sort Code	Amount
	3209033478510723	07/09/2023	PRE-EMPLOYMENT/ DOT PHYSICALS-06/2023		1,141.00
Check	08/03/2023	9058 Accounts Payable	SFPUC		3,885.81
	Invoice	Date	Description	Check Sort Code	Amount
	60223	06/23/2023	SFPUC RENT WATER AC#3642 07/1/23		970.17
	60251	06/23/2023	SFPUC RENT WATER AC#2866 7/1/23		2,915.64
Check	08/03/2023	9059 Accounts Payable	SLOAN SAKAI YEUNG & WONG LLP		600.00
	Invoice	Date	Description	Check Sort Code	Amount
	52390	06/30/2023	LEGAL ADVICE/NEGOTIATIONS-JUNE 2023		600.00
Check	08/03/2023	9060 Accounts Payable	STEVE G. HOOS		161.18
	Invoice	Date	Description	Check Sort Code	Amount
	37028	07/06/2023	RUSCHIN FIRE OVEN REPAIR 7/6/23		161.18
Check	08/03/2023	9061 Accounts Payable	TIREHUB, LLC		2,443.02
	Invoice	Date	Description	Check Sort Code	Amount
	34596129	05/23/2023	TIRES-EAGLE ENFORCER AND FORTITUDE		1,718.71
	34627657	05/24/2023	TIRES-ASSUR		724.31
Check	08/03/2023	9062 Accounts Payable	TREASURER OF ALAMEDA COUNTY		4,635.00
	Invoice	Date	Description	Check Sort Code	Amount
	23-06108	07/13/2023	BOOKING FEES JUNE 2023		4,635.00
Check	08/03/2023	9063 Accounts Payable	TYLER TECHNOLOGIES, INC.		1,225.00
	Invoice	Date	Description	Check Sort Code	Amount
	025-430547	08/03/2023	ADVANCED SCHED IMPLEMENT FEES & PRJ MNGMNT FY23 - 6/14/23		350.00
	025-429032	06/28/2023	ADVANCED SCHED IMPLEMENT FEES & PRJ MNGMNT FY23 - 5/8 - 5/23/23		875.00
Check	08/03/2023	9064 Accounts Payable	U.S. BANK CORPORATE PAYMENT SYSTEMS		58,657.00
	Invoice	Date	Description	Check Sort Code	Amount
	072423STMT	07/24/2023	CC PAYMENT 07/24/23		58,657.00
Check	08/03/2023	9065 Accounts Payable	U.S. BANK ST. PAUL		952,413.13
	Invoice	Date	Description	Check Sort Code	Amount
	2346342	07/20/2023	LOIB AID #26 REASSESSMENT & REFUND OF 2013		952,413.13
Check	08/03/2023	9066 Accounts Payable	VERIZON WIRELESS		7,045.75
	Invoice	Date	Description	Check Sort Code	Amount

	9939909133	06/30/2023	WIRELESS SERVICE JUNE 19-JULY 18, 2023			7,045.75
Check	08/03/2023	9067 Accounts Payable	WEST COAST ARBORISTS INC			11,235.00
	Invoice	Date	Description		Check Sort Code	Amount
	201903	07/10/2023	PARK TREE MAINT 06/01/23-06/15/23			11,235.00
Check	08/03/2023	9068 Accounts Payable	ORION SECURITY			4,043.20
	Invoice	Date	Description		Check Sort Code	Amount
	122017	06/17/2023	UNARMED, UNIFORMED SECURITY OFFICER 6/12/23- 6/16/23			1,444.00
	122060	06/24/2023	UNARMED, UNIFORMED SECURITY OFFICER 6/19/23 - 6/22/23			1,155.20
	122274	07/01/2023	UNARMED, UNIFORMED SECURITY OFFICER 6/26/23 - 6/30/23			1,444.00
Check	08/03/2023	9069 Accounts Payable	LUU , JOHN			1,000.00
	Invoice	Date	Description		Check Sort Code	Amount
	2024-00000119	07/26/2023	RETURNING SPECIAL EVENT PERMIT SECURITY DEPOSIT - 7/13/23			1,000.00
Check	08/03/2023	9070 Accounts Payable	LEADSONLINE LLC (ACH)			5,145.00
	Invoice	Date	Description		Check Sort Code	Amount
	404529	05/18/2023	CELLHAWK SUBSCRIPTION FY23/24			5,145.00
EFT	08/03/2023	645 Accounts Payable	SPECTRUM SMALL BUSINESS SERVICES, LLC	325084426 / 5348560846		2,830.00
	Invoice	Date	Description		Check Sort Code	Amount
	07052023-GENERAL	07/05/2023	NEWARK TEAM MEETINGS - 6/5/23 THRU 6/27/23			2,087.50
	07052023-ARPA	07/05/2023	SMALL BUSINESS SUPP - MIKE BULL'S MEETINGS - 6/21/23 - 6/27/23			742.50
EFT	08/03/2023	646 Accounts Payable	PET BENEFIT SOLUTION	021000021 / 238821802		53.75
	Invoice	Date	Description		Check Sort Code	Amount
	129667	07/25/2023	TOTAL PET PLAN - JULY PREMIUMS			53.75
EFT	08/03/2023	647 Accounts Payable	QUADIENT FINANCE USA, INC.	011900254 / 385015844484		3,022.35
	Invoice	Date	Description		Check Sort Code	Amount
	4857-MAY '23	06/30/2023	MAY POSTAGE			1,950.00
	4857-JUNE '23	06/30/2023	JUNE POSTAGE			1,072.35

AP ZBA ACCOUNTS PAYABLE Totals:		Transactions: 57	$1,551,049.15
Checks:	54	$1,545,143.05	
EFTs:	3	$5,906.10	

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Payment Batch Register

Bank Account: AP - ZBA ACCOUNTS PAYABLE

Batch Date: 08/03/2023

Type	Date	Number	Source	Payee Name	EFT Bank/Account	Transaction Amount
Bank Account: AP - ZBA ACCOUNTS PAYABLE						
Check	08/03/2023	9071	Accounts Payable	VSS INTERNATIONAL, INC.		251,456.35
	Invoice	Date	Description		Check Sort Code	Amount
	20019433	06/30/2023	CHERRY ST. CLASS IV SEPARATED BIKEWAYS, PRJ 1254 06/12-06/30/23			251,456.35
EFT	08/03/2023	649	Accounts Payable	LEADSONLINE LLC	111000614 / 865536111	5,145.00
	Invoice	Date	Description		Check Sort Code	Amount
	404529	05/18/2023	CELLHAWK SUBSCRIPTION FY23/24			5,145.00
EFT	08/03/2023	650	Accounts Payable	SEDGWICK CLAIMS MANAGEMENT SERVICES, INC.	121000248 / 4942808510	24,084.43
	Invoice	Date	Description		Check Sort Code	Amount
	SF-8510-01307805	06/01/2023	FY 22/23 WORKERS COMPENSATION CLAIMS -05/01/23-05/31/23			201.81
	SF-8510-01324217	07/03/2023	FY 22/23 WORKERS COMPENSATION CLAIMS -06/01/23-06/30/23			23,882.62
AP ZBA ACCOUNTS PAYABLE Totals:				Transactions: 3		$280,685.78

Checks:	1	$251,456.35
EFTs:	2	$29,229.43

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Payment Batch Register

Bank Account: AP - ZBA ACCOUNTS PAYABLE

Batch Date: 08/10/2023

Type	Date	Number	Source	Payee Name	EFT Bank/Account	Transaction Amount
Bank Account: AP - ZBA ACCOUNTS PAYABLE						
Check	08/10/2023	9072	Accounts Payable	4LEAF INC		42,680.00
	Invoice	Date	Description		Check Sort Code	Amount
	J3962T	04/30/2023	TEMP PROFESSIONAL PLANN SVCS - 4/1/23 - 4/30/23			11,440.00
	J3962U	05/31/2023	TEMP PROFESSIONAL PLANN SVCS - 5/1/23 - 5/31/23			17,600.00
	J3962V	07/17/2023	TEMP PROFESSIONAL PLANN SVCS - 6/1/23 - 6/30/23			13,640.00
Check	08/10/2023	9073	Accounts Payable	ABC FIRE PROTECTION, INC.		5,595.73
	Invoice	Date	Description		Check Sort Code	Amount
	64242	07/14/2023	FIRE EXTINGUISER MAINTENANCE 7/14/23			5,595.73
Check	08/10/2023	9074	Accounts Payable	HEALTH AND HUMAN RESOURCE CENTER, INC		247.86
	Invoice	Date	Description		Check Sort Code	Amount
	E0297602	07/10/2023	EMPLOYEE ASSISTANT PROGRAM (EAP)- AUGUST 2023			247.86
Check	08/10/2023	9075	Accounts Payable	ALLIED AUTO STORES INC		146.11
	Invoice	Date	Description		Check Sort Code	Amount
	JUL' 23	07/31/2023	ALLIED-FLEET SUPPLIES 07/13-07/28			146.11
Check	08/10/2023	9076	Accounts Payable	APPLIED AIR FILTERS		3,056.57
	Invoice	Date	Description		Check Sort Code	Amount
	46797	07/14/2023	LIBRARY AIR FILTERS			3,056.57
Check	08/10/2023	9077	Accounts Payable	ARCHIVESOCIAL LLC		4,188.00
	Invoice	Date	Description		Check Sort Code	Amount
	29045	07/01/2023	SOCIAL MEDIA ARCHIVING SUBSCRIPTION FY24			4,188.00
Check	08/10/2023	9078	Accounts Payable	ARI INVESTIGATIONS INC.		5,241.18
	Invoice	Date	Description		Check Sort Code	Amount
	23-120	07/06/2023	PROFESSIONAL SERVICES RENDERED THROUGH JUNE 16, 2023			5,241.18
Check	08/10/2023	9079	Accounts Payable	ASSOCIATION OF BAY AREA GOVERNMENTS		13,891.00
	Invoice	Date	Description		Check Sort Code	Amount
	AR032514	07/01/2023	FY23/24 ABAG MEMBERSHIP DUES			13,891.00
Check	08/10/2023	9080	Accounts Payable	CITY OF FREMONT		1,250.00
	Invoice	Date	Description		Check Sort Code	Amount

	329684	08/02/2023	CASE MANAGEMENT FOR APR '23-JUN '23		1,250.00
Check	08/10/2023	9081 Accounts Payable	CITY OF FREMONT		13,238.00
	Invoice	Date	Description	Check Sort Code	Amount
	329417	07/07/2023	SHELTER OPERATING EXP JULY 2023		13,238.00
Check	08/10/2023	9082 Accounts Payable	CIVICA LAW GROUP, APC		4,546.70
	Invoice	Date	Description	Check Sort Code	Amount
	10569	07/03/2023	LEGAL SERVICES THROUGH JUNE 30, 2023		1,537.90
	10191	05/01/2023	PROFESSIONAL SERVICES RENDERED THROUGH APRIL 30, 2023		501.70
	10192	05/01/2023	PROFESSIONAL SERVICES RENDERED THROUGH APRIL 30, 2023		49.80
	10570	07/03/2023	PROFESSIONAL SERVICES RENDERED THROUGH JUNE 30, 2023		49.80
	10193	05/01/2023	PROFESSIONAL SERVICES RENDERED THROUGH APRIL 30, 2023		2,407.50
Check	08/10/2023	9083 Accounts Payable	TRACI COLTON		481.58
	Invoice	Date	Description	Check Sort Code	Amount
	0201-022123EXP	02/21/2023	DANCE REVUE SUPPLY REIMBURSEMENT		13.67
	0401-041523EXP	04/15/2023	DANCE REVUE SUPPLY REIMBURSEMENT		36.95
	0505-051923EXP	05/01/2023	DANCE REVUE SUPPLY REIMBURSEMENT		430.96
Check	08/10/2023	9084 Accounts Payable	ALAMEDA COUNTY ASSESSOR'S OFFICE		18.00
	Invoice	Date	Description	Check Sort Code	Amount
	1656	06/29/2023	ASSESSOR MAP UPDATES - 6/2023		18.00
Check	08/10/2023	9085 Accounts Payable	DAILY JOURNAL CORPORATION		271.25
	Invoice	Date	Description	Check Sort Code	Amount
	B3717805	07/13/2023	PH NOTICE - 38600 CEDAR - WAYMARK HEARING - 7/11/23		120.00
	B3722686	07/25/2023	PH NOTICE - EIR FOR 7400-7550 MOWRY AVENUE - 7/25/23		151.25
Check	08/10/2023	9086 Accounts Payable	DALE HARDWARE		415.10
	Invoice	Date	Description	Check Sort Code	Amount
	JUL' 23	07/25/2023	DALE SUPPLIES 07/25/2023		415.10
Check	08/10/2023	9087 Accounts Payable	DARRYL REINA		3,137.50
	Invoice	Date	Description	Check Sort Code	Amount
	0710-071423	07/18/2023	COUGAR GIRLS BASKETBALL CAMP INSTRUCTION 07/10-07/14/23		3,137.50
Check	08/10/2023	9088 Accounts Payable	DEPARTMENT OF TRANSPORTATION		1,021.44
	Invoice	Date	Description	Check Sort Code	Amount
	SL231091	07/14/2023	SHARED COSTS FOR TRAFFIC SIGNALS (APR 2023-JUNE 2023)		1,021.44
Check	08/10/2023	9089 Accounts Payable	DESTINY SOFTWARE, INC.		6,500.00
	Invoice	Date	Description	Check Sort Code	Amount
	5026	08/01/2023	AQUENDAQUICK SOFTWARE 09/23 - 08/24		6,500.00
Check	08/10/2023	9090 Accounts Payable	DYNAMIC FUEL SOLUTION		3,818.97
	Invoice	Date	Description	Check Sort Code	Amount
	1930	06/26/2023	FUEL POLISHING 6/12/23		3,818.97
Check	08/10/2023	9091 Accounts Payable	EDEN I&R INC		18,129.46
	Invoice	Date	Description	Check Sort Code	Amount
	24-003	08/03/2023	2-1-1 PHONE LINE SERVICE 07/01/23-06/30/24		18,129.46

Check	08/10/2023	9092	Accounts Payable	FEDEX	17.80

Invoice	Date	Description	Check Sort Code	Amount
8-192-12940	07/14/2023	PACKAGE DELIVERY 7/6/23		17.80

Check	08/10/2023	9093	Accounts Payable	PETER FONG	2,356.53

Invoice	Date	Description	Check Sort Code	Amount
0709-071423EXP	07/28/2023	ESRI EXPENSE REIMBURSEMENT 07/09-07/14/23		2,356.53

Check	08/10/2023	9094	Accounts Payable	FRANK BONETTI PLUMBING INC	255.00

Invoice	Date	Description	Check Sort Code	Amount
46552	07/18/2023	RUSCHIN FIRE INSPECT SEWER LATERAL 7/13/23		255.00

Check	08/10/2023	9095	Accounts Payable	FREMONT FORD	26.89

Invoice	Date	Description	Check Sort Code	Amount
216554	07/31/2023	FLEET PARTS - BOLT		26.89

Check	08/10/2023	9096	Accounts Payable	GREENSFELDER COMMERCIAL REAL ESTATE LLC	29,667.96

Invoice	Date	Description	Check Sort Code	Amount
NEWARK 23-05	05/31/2023	URBAN PLANN, REAL ESTATE ADVISORY & IMPLEMENTATION (1ST AMEND)		29,667.96

Check	08/10/2023	9097	Accounts Payable	HIROSHI ICHIMURA	225.60

Invoice	Date	Description	Check Sort Code	Amount
0506-062423-2	06/24/2023	REMAINING PAYMENT FOR KENDO CLASSES 5/6-6/24/23		225.60

Check	08/10/2023	9098	Accounts Payable	KELLY-MOORE PAINT COMPANY	594.73

Invoice	Date	Description	Check Sort Code	Amount
614-00000749356	08/01/2023	SILLIMAN PAINT		577.11
617-00000726395	08/08/2023	PD PAINT-POINT OF SALE 8/8/23		17.62

Check	08/10/2023	9099	Accounts Payable	NAPA AUTO PARTS	526.26

Invoice	Date	Description	Check Sort Code	Amount
JUL' 23	07/31/2023	NAPA-FLEET SUPPLIES JULY 2023		526.26

Check	08/10/2023	9100	Accounts Payable	L.N. CURTIS AND SONS	275.33

Invoice	Date	Description	Check Sort Code	Amount
INV728091	07/20/2023	SUPPLIES AND EQUIPMENT		275.33

Check	08/10/2023	9101	Accounts Payable	LAWCX	325,211.00

Invoice	Date	Description	Check Sort Code	Amount
LAWCX2024-0018	07/05/2023	FY23/24 DEPOSIT FOR EXCESS WORKERS COMPENSATION PREMIUM		325,211.00

Check	08/10/2023	9102	Accounts Payable	LELAND CONSULTING GROUP, INC.	4,742.50

Invoice	Date	Description	Check Sort Code	Amount
6470.1.2	03/01/2023	NEWARK HOTEL STUDY - 12/10/22 - 2/14/23		4,742.50

Check	08/10/2023	9103	Accounts Payable	LIEBERT CASSIDY WHITMORE	5,145.00

Invoice	Date	Description	Check Sort Code	Amount
244806	06/25/2023	BAY AREA EMPLOYMENT RELATIONS CONSORTIUM MBRSHP07/01/23-06/30/24		5,145.00

Check	08/10/2023	9104	Accounts Payable	BRICK TECH	2,677.50

	Invoice		Date	Description	Check Sort Code	Amount
	0710-071423		07/18/2023	BRICK TECH CAMP CLASSES 7/10-7/14/23		2,677.50
Check	08/10/2023	9105	Accounts Payable	Meyers Nave		43,155.40
	Invoice		Date	Description	Check Sort Code	Amount
	207444		07/21/2023	PROFESSIONAL SERVICES RENDERED THROUGH JUNE 30, 2023		438.99
	207449		07/21/2023	PROFESSIONAL SERVICES RENDERED THROUGH JUNE 30, 2023		12,110.50
	207450		07/21/2023	PROFESSIONAL SERVICES RENDERED THROUGH JUNE 30, 2023		1,653.01
	207451		07/21/2023	PROFESSIONAL SERVICES RENDERED THROUGH JUNE 30, 2023		1,733.10
	207452		07/21/2023	PROFESSIONAL SERVICES RENDERED THROUGH JUNE 30, 2023		5,589.80
	207456		07/21/2023	PROFESSIONAL SERVICES RENDERED THROUGH JUNE 30, 2023		13,825.80
	207457		07/21/2023	PROFESSIONAL SERVICES RENDERED THROUGH JUNE 30, 2023		422.10
	207458		07/21/2023	PROFESSIONAL SERVICES RENDERED THROUGH JUNE 30, 2023		7,382.10
Check	08/10/2023	9106	Accounts Payable	MIKE YORKS INVESTIGATIONS		2,850.00
	Invoice		Date	Description	Check Sort Code	Amount
	2023-37		07/20/2023	BACKGROUND INVESTIGATIONS 06/25-07/19/23		975.00
	2023-36		07/20/2023	BACKGROUND INVESTIGATIONS 06/25-07/19/2023		975.00
	2023-43		08/04/2023	BACKGROUND INVESTIGATIONS 07/19-08/04/2023		900.00
Check	08/10/2023	9107	Accounts Payable	MOMENTIVE INC.		13,910.00
	Invoice		Date	Description	Check Sort Code	Amount
	INV-SM-00049358		07/18/2023	SURVEYMONKEY ENTERPRISE 07/18/23 - 07/17/24		13,910.00
Check	08/10/2023	9108	Accounts Payable	NATIONAL AQUATIC SERVICES, INC.		6,150.00
	Invoice		Date	Description	Check Sort Code	Amount
	23-621		07/11/2023	GENERAL POOL MAINTENANCE - 11/30/22, 12/2/22, 6/22/23		6,150.00
Check	08/10/2023	9109	Accounts Payable	NETFILE, INC.		4,900.00
	Invoice		Date	Description	Check Sort Code	Amount
	8762		07/06/2023	FORM 700/CAMPAIGN FILING - 07/01/23 - 06/30/24		4,900.00
Check	08/10/2023	9110	Accounts Payable	KIDZ LOVE SOCCER		8,797.20
	Invoice		Date	Description	Check Sort Code	Amount
	0616-071423		07/18/2023	KIDZ LOVE SOCCER CLASSES FOR 6/16-7/14/23		8,797.20
Check	08/10/2023	9111	Accounts Payable	NUTRIEN AG SOLUTIONS, INC.		170.56
	Invoice		Date	Description	Check Sort Code	Amount
	50255647		02/16/2023	PARKS CHEMICALS		170.56
Check	08/10/2023	9112	Accounts Payable	BRETT OEVERNDIEK		12.71
	Invoice		Date	Description	Check Sort Code	Amount
	072023EXP		08/01/2023	EXPENSE REIMBURSEMENT - 07/20/23		12.71
Check	08/10/2023	9113	Accounts Payable	OPENING TECHNOLOGIES, INC.		1,074.00
	Invoice		Date	Description	Check Sort Code	Amount
	2211696		07/17/2023	PD DOOR REPAIR 7/7/23		1,074.00
Check	08/10/2023	9114	Accounts Payable	PHOENIX GROUP INFORMATION SYSTEMS		367.30
	Invoice		Date	Description	Check Sort Code	Amount

	062023101	07/18/2023	PARKING CITATION PROGRAM JUNE 2023			367.30
Check	08/10/2023	9115 Accounts Payable	PLAN JPA			1,659,321.00
	Invoice	Date	Description		Check Sort Code	Amount
	PLAN-2023-0256	08/08/2023	FY 23/24 GENERAL LIABILITY AND PROPERTY MEMBER CONTRIBUTIONS			1,659,321.00
Check	08/10/2023	9116 Accounts Payable	JACKSON POSADAS			350.00
	Invoice	Date	Description		Check Sort Code	Amount
	073023EXP	07/30/2023	BOOT REIMBURSEMENT 7/30/23			350.00
Check	08/10/2023	9117 Accounts Payable	PROVIDENT LIFE & ACCIDENT INSURANCE			62.68
	Invoice	Date	Description		Check Sort Code	Amount
	UNUM MAY 2023-1	06/01/2023	UNUM MAY 2023 RESUBMISSION			62.68
Check	08/10/2023	9118 Accounts Payable	REGIONAL GOVERNMENT SERVICES AUTHORITY			2,400.00
	Invoice	Date	Description		Check Sort Code	Amount
	TRAINING 0727	07/27/2023	RGS 2023 LOCAL GVNMT ANALYST BOOT CAMP - KRYSTEN LEE			2,400.00
Check	08/10/2023	9119 Accounts Payable	ROADRUNNER GLASS DOOR, INC			1,013.39
	Invoice	Date	Description		Check Sort Code	Amount
	11331	04/21/2023	COMMUNITY CENTER GLASS REPAIR 4/18/23			1,013.39
Check	08/10/2023	9120 Accounts Payable	RUTAN & TUCKER, LLP			1,942.50
	Invoice	Date	Description		Check Sort Code	Amount
	966917	07/28/2023	AREA 4 CEQA - SVCS THRU 6/30/23			1,942.50
Check	08/10/2023	9121 Accounts Payable	SFPUC			8,227.62
	Invoice	Date	Description		Check Sort Code	Amount
	60537	07/21/2023	HETCH HETCHY RENT AC#2866 07/21/23			6,248.10
	60497	07/31/2023	HETCH HETCHY RENT AC#3642 07/21/23			1,979.52
Check	08/10/2023	9122 Accounts Payable	SEDGWICK			2,640.00
	Invoice	Date	Description		Check Sort Code	Amount
	BRS-0020439	07/18/2023	REMOTE RISK CONTROL- JUNE 2023			2,640.00
Check	08/10/2023	9123 Accounts Payable	SIMON & COMPANY INC			1,720.00
	Invoice	Date	Description		Check Sort Code	Amount
	07-2023	07/25/2023	PROFESSIONAL FEDERAL AFFAIRS ASSISTANCE MONTH OF JULY			1,720.00
Check	08/10/2023	9124 Accounts Payable	STANDARD INSURANCE COMPANY			1,736.70
	Invoice	Date	Description		Check Sort Code	Amount
	AUG LTD PREMIUMS	08/02/2023	STANDARD LTD - AUGUST 2023 PREMIUMS			1,736.70
Check	08/10/2023	9125 Accounts Payable	STORM WATER INSPECTION & MAINTENANCE SERVICES INC.			170,990.00
	Invoice	Date	Description		Check Sort Code	Amount
	67673	06/30/2023	INSTALLATION & MAINTENANCE OF STORM DRAIN TRASH CAPTURE DEVICES			170,990.00
Check	08/10/2023	9126 Accounts Payable	SURF TO SNOW ENVIRONMENTAL RESOURCE			27,305.00
	Invoice	Date	Description		Check Sort Code	Amount

	12867		05/31/2023	MUNICIPAL STORMWATER INSPECTION SERVICES (05/01-05/31/23)		27,305.00
Check	08/10/2023	9127	Accounts Payable	TEMPERATURE TECHNOLOGY INC.		1,568.60
	Invoice		Date	Description	Check Sort Code	Amount
	I2577		07/20/2023	SILLIMAN HVAC SERVICE 7/19/23		1,568.60
Check	08/10/2023	9128	Accounts Payable	THE TACTICAL ADVANTAGE POLICE SUPPLY		1,085.99
	Invoice		Date	Description	Check Sort Code	Amount
	7306		07/18/2023	BULLETPROOF VESTS JPIQUETTE; APPROVAL #2023-12		1,085.99
Check	08/10/2023	9129	Accounts Payable	SHANNON TODD		1,800.00
	Invoice		Date	Description	Check Sort Code	Amount
	0906-090823 EXP		08/09/2023	WLLE CONFERENCE-SAN DIEGO - 09/06-09/08/23		1,800.00
Check	08/10/2023	9130	Accounts Payable	VERIZON WIRELESS		8,700.19
	Invoice		Date	Description	Check Sort Code	Amount
	9937537399		06/18/2023	IPHONE SVC 05/19-06/18/23		5,511.79
	9939909134		07/18/2023	IPHONE SVC 06/19-07/18/23		3,188.40
Check	08/10/2023	9131	Accounts Payable	VICTOR WANG		2,273.16
	Invoice		Date	Description	Check Sort Code	Amount
	0709-071423EXP		07/24/2023	2023 ESRI USER CONF. SAN DIEGO		2,273.16
Check	08/10/2023	9132	Accounts Payable	WBCP, INC		25,000.00
	Invoice		Date	Description	Check Sort Code	Amount
	6861		06/26/2023	CEO CHAMBER OF COMMERCE RECRUITMENT SVCS - 06/26/23		25,000.00
Check	08/10/2023	9133	Accounts Payable	WEX BANK		849.48
	Invoice		Date	Description	Check Sort Code	Amount
	90998227		08/06/2023	CHEVRON CC 08/06/23		849.48
Check	08/10/2023	9134	Accounts Payable	WHOOSTER, INC.		599.00
	Invoice		Date	Description	Check Sort Code	Amount
	10002007486		07/21/2023	WHOOSTER LE SMS PLUS ANNUAL 08/18/23-08/17/24		599.00
Check	08/10/2023	9135	Accounts Payable	UNITED SWISS SOCIETIES		1,000.00
	Invoice		Date	Description	Check Sort Code	Amount
	2024-00000167		08/07/2023	RETURNING SPECIAL EVENT PERMIT SECURITY DEPOSIT		1,000.00
AP ZBA ACCOUNTS PAYABLE Totals:				Transactions: 64		$2,501,569.03
	Checks:	64		$2,501,569.03		

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Payment Batch Register

Bank Account: AP - ZBA ACCOUNTS PAYABLE

Batch Date: 08/17/2023

Type	Date	Number	Source	Payee Name	EFT Bank/Account	Transaction Amount
Bank Account: AP - ZBA ACCOUNTS PAYABLE						
Check	08/17/2023	9136	Accounts Payable	ADAMSON POLICE PRODUCTS		1,461.20
	Invoice	Date	Description		Check Sort Code	Amount
	INV399963	07/25/2023	EQUIPMENT FOR RANGE PROGRAM			1,461.20
Check	08/17/2023	9137	Accounts Payable	ALAMEDA COUNTY SHERIFF'S OFFICE		735.65
	Invoice	Date	Description		Check Sort Code	Amount
	PPE 8.5.23	08/09/2023	GARNISH - CASE 21CV000937			735.65
Check	08/17/2023	9138	Accounts Payable	ALAMEDA COUNTY WATER DISTRICT		2,491.05
	Invoice	Date	Description		Check Sort Code	Amount
	0601-063023	07/31/2023	ACWD HYDRANT 06/1-06/30/23			1,225.11
	0701-073023	08/01/2023	ACWD HYDRANT 07/1-07/31/23			1,265.94
Check	08/17/2023	9139	Accounts Payable	ASCAP		435.00
	Invoice	Date	Description		Check Sort Code	Amount
	2023FEES	08/10/2023	MUSIC LICENSE FEE - 01/01/23 - 06/30/24			435.00
Check	08/17/2023	9140	Accounts Payable	BAY CENTRAL PRINTING		3,400.03
	Invoice	Date	Description		Check Sort Code	Amount
	195801	06/07/2023	PRINT SUMMER NEWSLETTER 06/07/23			3,400.03
Check	08/17/2023	9141	Accounts Payable	BAY ISLAND OFFICIALS ASSOCIATION		1,568.00
	Invoice	Date	Description		Check Sort Code	Amount
	JULY312023	07/31/2023	OFFICIATING FOR BASKETBALL AND VOLLEYBALL GAMES FOR JULY '23			1,568.00
Check	08/17/2023	9142	Accounts Payable	BLAISDELL'S BUSINESS PRODUCTS		206.67
	Invoice	Date	Description		Check Sort Code	Amount
	JUNE'23-2	06/30/2023	OFFICE SUPPLIES 6/30/23			206.67
Check	08/17/2023	9143	Accounts Payable	BMI		421.00
	Invoice	Date	Description		Check Sort Code	Amount
	11083811	07/02/2023	MUSIC LICENSE FEE 07/01/23 - 06/30/24			421.00
Check	08/17/2023	9144	Accounts Payable	CITY OF UNION CITY		11,346.22
	Invoice	Date	Description		Check Sort Code	Amount
	2023-0488	08/02/2023	50% OF EMERGENCY SERVICES COORDINATORY SALARY FY23 TRUE UP BILLI			11,346.22
Check	08/17/2023	9145	Accounts Payable	CIVICPLUS, LLC		1,685.78

	Invoice	Date	Description	Check Sort Code	Amount
	265327	07/01/2023	FULL-SERVICE SUPPLEMENTATION SUBSCRIPTION 12/15/2022 - 6/30/25		1,185.78
	262317	07/01/2023	ONLINE CODE HOSTING 07/01/23 - 06/30/24		500.00
Check	08/17/2023	9146 Accounts Payable	ALHAMBRA		669.93
	Invoice	Date	Description	Check Sort Code	Amount
	15734365081322	08/16/2022	WATER SERVICE 7/15/22 - 8/12/22		329.38
	15734365061323	06/13/2023	WATER SERVICE 05/16 - 06/07/23		340.55
Check	08/17/2023	9147 Accounts Payable	DUKE DE LEON		360.00
	Invoice	Date	Description	Check Sort Code	Amount
	4174	06/25/2023	BROADCAST AND STREAM CC AND PC MEETINGS JUNE 2023		360.00
Check	08/17/2023	9148 Accounts Payable	MATTHEW FARRELL		226.00
	Invoice	Date	Description	Check Sort Code	Amount
	072823EXP	07/28/2023	EXPENSE REIMBURSEMENT 07/28/23		226.00
Check	08/17/2023	9149 Accounts Payable	FEDEX		37.02
	Invoice	Date	Description	Check Sort Code	Amount
	8-199-14462	07/21/2023	PACKAGE DELIVERY 7/11/23		19.22
	8-220-90490	08/11/2023	PACKAGE DELIVERY 8/8/23		17.80
Check	08/17/2023	9150 Accounts Payable	FEHR & PEERS		9,160.69
	Invoice	Date	Description	Check Sort Code	Amount
	166841	07/21/2023	TASK ORDER #9 - TRUCK REROUTING STUDY 05/27-06/30/23		2,567.25
	166856	07/21/2023	TASK ORDER #10 - ACTIVE TRANSPORTATION PLAN 05/27-06/30/23		6,593.44
Check	08/17/2023	9151 Accounts Payable	FRANK BONETTI PLUMBING INC		4,560.33
	Invoice	Date	Description	Check Sort Code	Amount
	45383	03/21/2023	SECOND CHANCE - DRAIN LINE CLEANOUT 2/8/23		340.00
	46426	06/29/2023	FIRE STATION #1 URINAL CLEARING 06/29/23		684.27
	46427	06/29/2023	CITY HALL WATER LINE LEAK 6/29/23		1,456.06
	46495	07/11/2023	FIRE STATION #2 FLOOR DRAIN CLEAN OUT 4/26/23		1,570.00
	46514	07/12/2023	FIRE STATION #2 KITCHEN SINK BACKUP 5/23/23		255.00
	46580	05/08/2023	SERVICE CENTER SHOWER DRAIN REPAIR 5/8/23		255.00
Check	08/17/2023	9152 Accounts Payable	ANGELA GALLEGOS-CASTILLO		2,275.00
	Invoice	Date	Description	Check Sort Code	Amount
	5	05/25/2023	CONSULTING SERVICES FOR PROMOTORES 02/13 - 05/15/23		2,275.00
Check	08/17/2023	9153 Accounts Payable	GHA TECHNOLOGIES, INC.		18,664.02
	Invoice	Date	Description	Check Sort Code	Amount
	11315082	07/25/2023	ABSOLUTE SECURE ACCESS (NETMOTION)		4,350.27
	11316636	08/10/2023	HYCU OFFICE 365 BACKUP FY2024		14,313.75
Check	08/17/2023	9154 Accounts Payable	GROUP 4 ARCHITECTURE RESEARCH + PLANNING, INC.		8,095.72
	Invoice	Date	Description	Check Sort Code	Amount
	11811	06/30/2023	REIMBURSABLES AND PROFESSIONAL SERVICES RENDERED THROUGH 6/30/23		8,095.72
Check	08/17/2023	9155 Accounts Payable	HARRIS COMPUTER SYSTEMS		61,377.08

	Invoice	Date	Description	Check Sort Code	Amount
	CERMN0000105	07/01/2023	SELECT ERP MAINT 07/23-06/24		61,377.08
Check	08/17/2023	9156 Accounts Payable	I PIZZA		1,963.00
	Invoice	Date	Description	Check Sort Code	Amount
	070823-072923	08/10/2023	PIZZA FOR BIRTHDAY PARTIES 07/08 - 07/29/23		1,963.00
Check	08/17/2023	9157 Accounts Payable	JAYSON IMAI		78.47
	Invoice	Date	Description	Check Sort Code	Amount
	0706-071023EXP	08/10/2023	EXPENSE REIMBURSEMENT 07/06 - 07/10/23		78.47
Check	08/17/2023	9158 Accounts Payable	LINCOLN AQUATICS		1,404.78
	Invoice	Date	Description	Check Sort Code	Amount
	SL042446	07/10/2023	POOL CHEMICALS		799.78
	NV155216	07/11/2023	POOL CHEMICALS		303.01
	D8825391	07/12/2023	POOL CHEMICALS		301.99
Check	08/17/2023	9159 Accounts Payable	MIKE YORKS INVESTIGATIONS		4,050.00
	Invoice	Date	Description	Check Sort Code	Amount
	2023-34	07/22/2023	BACKGROUND INVESTIGATIONS 06/25-07/22/23		525.00
	2023-35	07/23/2023	BACKGROUND INVESTIGATIONS 06/25-07/23/23		450.00
	2023-30	08/10/2023	BACKGROUND INVESTIGATIONS 07/01- 08/10/2023		3,075.00
Check	08/17/2023	9160 Accounts Payable	MNS ENGINEERS INC		19,328.65
	Invoice	Date	Description	Check Sort Code	Amount
	83816	08/04/2023	ON-CALL PUBLIC WORKS CONSTRUCTION INSPECTION SERVICES 07/23		19,328.65
Check	08/17/2023	9161 Accounts Payable	PAKPOUR CONSULTING GROUP, INC.		5,643.75
	Invoice	Date	Description	Check Sort Code	Amount
	4208	08/09/2023	ON-CALL CIVIL ENGINEERING PLAN REVIEW SERVICES 07/01-07/31/23		5,643.75
Check	08/17/2023	9162 Accounts Payable	PNC EQUIPMENT FINANCE		85,747.92
	Invoice	Date	Description	Check Sort Code	Amount
	1729880	06/26/2023	PNC-SWEEPER FINANCE CONTRACT 98987896-2 - 8/22/23 - 8/23/23		85,747.92
Check	08/17/2023	9163 Accounts Payable	PROVIDENT LIFE & ACCIDENT INSURANCE		96.14
	Invoice	Date	Description	Check Sort Code	Amount
	JULY 2023	08/11/2023	UNUM - JULY 2023 PREMIUMS		96.14
Check	08/17/2023	9164 Accounts Payable	QUALITY SIGN & BANNER		1,027.79
	Invoice	Date	Description	Check Sort Code	Amount
	20083	06/20/2023	BANNERS FOR MUSIC AT THE GROVE - JUNE '23		1,027.79
Check	08/17/2023	9165 Accounts Payable	SHEENA RAJ		120.72
	Invoice	Date	Description	Check Sort Code	Amount
	0727EXP	08/15/2023	MILAGE TO NW USER CONFERENCE		120.72
Check	08/17/2023	9166 Accounts Payable	JAMES SCANLIN		26.00
	Invoice	Date	Description	Check Sort Code	Amount
	080923EXP	08/09/2023	EXPENSE REIMBURSEMENT 08/09/23		26.00
Check	08/17/2023	9167 Accounts Payable	SIEMENS INDUSTRY, INC.		5,322.87

	Invoice	Date	Description	Check Sort Code	Amount
	5330943899	06/27/2023	SILLIMAN FIRE SAFETY SERVICES 6/27/23		5,322.87
Check	08/17/2023	9168 Accounts Payable	SIMON & COMPANY INC		1,720.00
	Invoice	Date	Description	Check Sort Code	Amount
	06-2023	06/25/2023	PROFESSIONAL FEDERAL AFFAIRS ASSISTANCE FOR JUNE 2023		1,720.00
Check	08/17/2023	9169 Accounts Payable	STAPLES		871.61
	Invoice	Date	Description	Check Sort Code	Amount
	8070940664	08/17/2023	OFFICE SUPPLIES 7/2-7/11/23		871.61
Check	08/17/2023	9170 Accounts Payable	SUN RIDGE SYSTEMS INC		2,630.00
	Invoice	Date	Description	Check Sort Code	Amount
	RIMS-072023-0135	07/24/2023	RIMSCON NARAYAN KRISHNAN 07/20/23		1,315.00
	RIMS-072023-0134	08/15/2023	RIMSCON FOR PETER FONG 07/20/23		1,315.00
Check	08/17/2023	9171 Accounts Payable	SURF TO SNOW ENVIRONMENTAL RESOURCE		210.00
	Invoice	Date	Description	Check Sort Code	Amount
	12753	03/31/2023	MUNICIPAL STORMWATER INSPECTION SERVICES (03/01-03/31/23)		210.00
Check	08/17/2023	9172 Accounts Payable	TEMPERATURE TECHNOLOGY INC.		1,415.95
	Invoice	Date	Description	Check Sort Code	Amount
	I2594	07/27/2023	SILLIMAN HVAC SERVICE 7/24/23		1,415.95
Check	08/17/2023	9173 Accounts Payable	UTILITY TELECOM GROUP, LLC		42,575.63
	Invoice	Date	Description	Check Sort Code	Amount
	JUL '23	07/16/2023	TELEPHONE / INTERNET SERVICES - JULY '23		21,449.11
	AUG '23	08/16/2023	TELEPHONE / INTERNET SERVICES - AUG '23		21,126.52
Check	08/17/2023	9174 Accounts Payable	WEST COAST ARBORISTS INC		16,416.65
	Invoice	Date	Description	Check Sort Code	Amount
	200142	05/15/2023	STREET TREE MAINTENANCE 5/1/23-5/15/23		16,416.65
Check	08/17/2023	9175 Accounts Payable	ANDERS , STEVE R		1,000.00
	Invoice	Date	Description	Check Sort Code	Amount
	2024-00000543	08/15/2023	RETURNING SPECIAL EVENT PERMIT SECURITY DEPOSIT 08/15/23		1,000.00
Check	08/17/2023	9176 Accounts Payable	ATUM		8,160.00
	Invoice	Date	Description	Check Sort Code	Amount
	2022-1107	08/17/2023	ENCP2021-0283 RFND		8,160.00
Check	08/17/2023	9177 Accounts Payable	GARCIA , JORGE		1,000.00
	Invoice	Date	Description	Check Sort Code	Amount
	2024-00000166	08/15/2023	RETURNING SPECIAL EVENT PERMIT SECURITY DEPOSIT 08/15/23		1,000.00
Check	08/17/2023	9178 Accounts Payable	PORTUGUESE FRATERNAL SOCIETY OF AMERICA		4,956.08
	Invoice	Date	Description	Check Sort Code	Amount
	2024-0121	08/10/2023	ENCP2023-0167 RFND		4,956.08
EFT	08/17/2023	667 Accounts Payable	CLIENTFIRST TECHNOLOGY CONSULTING 122037760 / 001064667052		6,046.25

Invoice	Date	Description	Check Sort Code	Amount
15286	06/30/2023	TECHNOLOGY MASTER PLAN 6/1-6/30/2023		718.75
15165	06/30/2023	TECHNOLOGY MASTER PLAN 5/1-5/30/2023		5,327.50

AP ZBA ACCOUNTS PAYABLE Totals: Transactions: 44 $340,988.65

Checks:	43	$334,942.40
EFTs:	1	$6,046.25

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Payment Batch Register

Bank Account: AP - ZBA ACCOUNTS PAYABLE

Batch Date: 08/24/2023

Type	Date	Number	Source	Payee Name	EFT Bank/Account	Transaction Amount
Bank Account: AP - ZBA ACCOUNTS PAYABLE						
Check	08/24/2023	9179	Accounts Payable	ALAMEDA COUNTY TRANSPORTATION COMMISSION		27,468.00

Invoice	Date	Description	Check Sort Code	Amount
1160	07/05/2023	FY23-24 MEMBER AGENCY FEES		27,468.00

Type	Date	Number	Source	Payee Name	EFT Bank/Account	Transaction Amount
Check	08/24/2023	9180	Accounts Payable	ALAMEDA COUNTY FIRE DEPARTMENT		1,093,290.00

Invoice	Date	Description	Check Sort Code	Amount
2023-24-007	07/27/2023	CONTRACT FIRE SERVICES - 07/23		1,093,290.00

Type	Date	Number	Source	Payee Name	EFT Bank/Account	Transaction Amount
Check	08/24/2023	9181	Accounts Payable	ALAMEDA COUNTY SHERIFF'S OFFICE		324.00

Invoice	Date	Description	Check Sort Code	Amount
290131-0823-7961	08/08/2023	EVOC BASIC SKILLS-TODD - 12/16/22		324.00

Type	Date	Number	Source	Payee Name	EFT Bank/Account	Transaction Amount
Check	08/24/2023	9182	Accounts Payable	ACCOPSA		750.00

Invoice	Date	Description	Check Sort Code	Amount
2023-18	08/17/2023	MEMBERSHIP DUES FY23/24		750.00

Type	Date	Number	Source	Payee Name	EFT Bank/Account	Transaction Amount
Check	08/24/2023	9183	Accounts Payable	BAY CENTRAL PRINTING		295.30

Invoice	Date	Description	Check Sort Code	Amount
196281	08/03/2023	BUSINESS CARD IMPRINTING-BLANK PAPER		123.54
196112	07/17/2023	BUSINESS CARD IMPRINTING-STEVEN LOSIER		85.88
196380	08/15/2023	BUSINESS CARD IMPRINTING-K KUMAR		85.88

Type	Date	Number	Source	Payee Name	EFT Bank/Account	Transaction Amount
Check	08/24/2023	9184	Accounts Payable	CAL SAFETY INC		520.00

Invoice	Date	Description	Check Sort Code	Amount
29873	07/03/2023	PORTABLE CHANGEABLE MESSAGE SIGNS		520.00

Type	Date	Number	Source	Payee Name	EFT Bank/Account	Transaction Amount
Check	08/24/2023	9185	Accounts Payable	BEACON VETERINARY SPECIALISTS		650.00

Invoice	Date	Description	Check Sort Code	Amount
142978	07/15/2023	VET SVCS 06/29/23		150.00
142247	06/29/2023	VET SVCS 06/28/23		150.00
142140	06/29/2023	VET SVCS 06/26/23		150.00
142055	06/29/2023	VET SVCS 06/23/23		200.00

Type	Date	Number	Source	Payee Name	EFT Bank/Account	Transaction Amount
Check	08/24/2023	9186	Accounts Payable	CITY OF FREMONT		13,238.00

Invoice	Date	Description	Check Sort Code	Amount
329741	08/02/2023	SHELTER OPERATING EXP AUGUST 2023		13,238.00

Type	Date	Number	Source	Payee Name	EFT Bank/Account	Transaction Amount
Check	08/24/2023	9187	Accounts Payable	CLASSIC GRAPHICS		2,795.75

	Invoice	Date	Description	Check Sort Code	Amount
	47353	12/21/2022	EQUIPMENT OUFITTING OF K9 12/21/22		1,602.06
	48207	07/12/2023	FORD ESCAPE REMOVAL OF DECALS 7/12/23		1,193.69
Check	08/24/2023	9188 Accounts Payable	TONYA CONNOLLY		78.40
	Invoice	Date	Description	Check Sort Code	Amount
	072723EXP	07/23/2023	FLEET WELDING JACKET 07/27/23		78.40
Check	08/24/2023	9189 Accounts Payable	COUNTY OF ALAMEDA		20.00
	Invoice	Date	Description	Check Sort Code	Amount
	RECDOC-2023	06/09/2023	RECORDING FEES		20.00
Check	08/24/2023	9190 Accounts Payable	ALAMEDA COUNTY PUBLIC HEALTH LAB		126.00
	Invoice	Date	Description	Check Sort Code	Amount
	6230010	06/30/2023	ANIMAL RABIES EXAM 05/25/23		126.00
Check	08/24/2023	9191 Accounts Payable	ALAMEDA COUNTY INFORMATION TECHNOLOGY DEPARTMENT		250.00
	Invoice	Date	Description	Check Sort Code	Amount
	161859	07/13/2023	SUBS-MOBILE-REPAIR 07/13/23		250.00
Check	08/24/2023	9192 Accounts Payable	ALAMEDA COUNTY LAFCO		3,370.00
	Invoice	Date	Description	Check Sort Code	Amount
	FY23/24	06/29/2023	LAFCO COST		3,370.00
Check	08/24/2023	9193 Accounts Payable	CPRS		1,989.96
	Invoice	Date	Description	Check Sort Code	Amount
	2023 RENEWAL V2	08/01/2023	23/24 MEMBERSHIP RENEWAL		1,989.96
Check	08/24/2023	9194 Accounts Payable	CRIME SCENE CLEANERS		108.00
	Invoice	Date	Description	Check Sort Code	Amount
	87307	07/27/2023	CRIME SCENE CLEANING 7/27/23		108.00
Check	08/24/2023	9195 Accounts Payable	DAILY JOURNAL CORPORATION		485.00
	Invoice	Date	Description	Check Sort Code	Amount
	B3714699	07/04/2023	LEGAL ADVERTISING 07/04/23		95.00
	B3715913	07/04/2023	LEGAL ADVERTISING 07/04/23		52.50
	B3718479	07/20/2023	LEGAL ADVERTISING 07/11 - 07/18/23		85.00
	B3722706	07/25/2023	LEGAL ADVERTISING 07/25/23		146.25
	B3722716	07/25/2023	LEGAL ADVERTISING 07/25/23		106.25
Check	08/24/2023	9196 Accounts Payable	DUKE DE LEON		345.00
	Invoice	Date	Description	Check Sort Code	Amount
	4175	07/29/2023	BROADCAST AND STREAM CC AND PC MTGS JULY 2023		240.00
	4176	08/23/2023	BROADCAST AND STREAM CC AND PC MTGS AUGUST 2023		105.00
Check	08/24/2023	9197 Accounts Payable	EMPLOYMENT DEVELOPMENT DEPARTMENT		5,442.00
	Invoice	Date	Description	Check Sort Code	Amount
	L1665226832	07/31/2023	UNEMPLOYMENT INSURANCE 04/01/23-06/30/23		5,442.00
Check	08/24/2023	9198 Accounts Payable	FEDEX		63.62

	Invoice	Date	Description	Check Sort Code	Amount
	8-205-63014	07/28/2023	PACKAGE DELIVERY 7/20/23		17.80
	8-228-45149	08/18/2023	PACKAGE DELIVERY 8/15/23		45.82
Check	08/24/2023	9199 Accounts Payable	FRANK BONETTI PLUMBING INC		2,610.00
	Invoice	Date	Description	Check Sort Code	Amount
	45233	03/09/2023	ASH FLOOR DRAINS/TOILET BACKUP 2/1/23		595.00
	46744	08/02/2023	COMMUNITY CENTER PLUMBING SERVICE 6/26/23		2,015.00
Check	08/24/2023	9200 Accounts Payable	GACHINA LANDSCAPE MANAGEMENT, INC.		17,730.00
	Invoice	Date	Description	Check Sort Code	Amount
	E 210428	07/06/2023	ANNUAL WEED ABATEMENT 0619-063023		17,730.00
Check	08/24/2023	9201 Accounts Payable	GRANITEROCK		1,681.79
	Invoice	Date	Description	Check Sort Code	Amount
	2084849	04/15/2023	STREETS ROAD MATERIALS		1,681.79
Check	08/24/2023	9202 Accounts Payable	MELISSA TRUJILLO		19,500.00
	Invoice	Date	Description	Check Sort Code	Amount
	002	07/25/2023	SUMMER CONCERT FINAL PAYMENT - 6/30 - 7/28/23		19,500.00
Check	08/24/2023	9203 Accounts Payable	HOME DEPOT CREDIT SERVICES		103.85
	Invoice	Date	Description	Check Sort Code	Amount
	JUL' 23	07/13/2023	HOME DEPOT CC PURCHASE 6/15/23-07/11/23		103.85
Check	08/24/2023	9204 Accounts Payable	JOSH HORST		4,172.92
	Invoice	Date	Description	Check Sort Code	Amount
	081223ADPP	08/12/2023	ADPP - 08/12-08/31/23		4,172.92
Check	08/24/2023	9205 Accounts Payable	INDUSTRIAL PLUMBING SUPPLY, LLC.		213.84
	Invoice	Date	Description	Check Sort Code	Amount
	109607	08/03/2023	SILLIMAN PLUMBING SUPPLIES-CONTROL STOP, HANDLE, SHOWER MOUNT		213.84
Check	08/24/2023	9206 Accounts Payable	JACK JAMES TOW SERVICE, INC.		612.00
	Invoice	Date	Description	Check Sort Code	Amount
	263034	07/31/2023	TOWING SVCS 07/31/23		306.00
	263035	07/31/2023	TOWING SVCS 07/31/23		306.00
Check	08/24/2023	9207 Accounts Payable	L.N. CURTIS AND SONS		1,693.48
	Invoice	Date	Description	Check Sort Code	Amount
	PINV810265	07/31/2023	SUPPLIES AND EQUIPMENT		1,693.48
Check	08/24/2023	9208 Accounts Payable	GOVERNMENT TECHNOLOGY GROUP, LLC		44,998.00
	Invoice	Date	Description	Check Sort Code	Amount
	145	08/03/2023	BROADBAND MASTER PLAN/SMART CITY PAYMENT #4		22,499.00
	140	07/07/2023	BROADBAND MASTER PLAN/SMART CITY PAYMENT #3		22,499.00
Check	08/24/2023	9209 Accounts Payable	MARK GOTHARD		500.00
	Invoice	Date	Description	Check Sort Code	Amount

	0706-07232023	07/27/2023	SENIOR CHAIR FITNESS			500.00
Check	08/24/2023	9210 Accounts Payable	MISSION LINEN SUPPLY - UNIFORM			1,994.49
	Invoice	Date	Description		Check Sort Code	Amount
	JUL' 23	07/31/2023	UNIFORM/MATS JULY 2023			1,994.49
Check	08/24/2023	9211 Accounts Payable	NET TRANSCRIPTS INC			392.06
	Invoice	Date	Description		Check Sort Code	Amount
	NT16454	07/31/2023	TRANSCRIPTION SVCS 07/27/23			392.06
Check	08/24/2023	9212 Accounts Payable	OWEN EQUIPMENT COMPANY			3,270.75
	Invoice	Date	Description		Check Sort Code	Amount
	00059182	02/24/2023	BROOM-SB SEGMENT SET			3,270.75
Check	08/24/2023	9213 Accounts Payable	PACIFIC GAS & ELECTRIC			89,673.40
	Invoice	Date	Description		Check Sort Code	Amount
	7578-080923	08/09/2023	CITYWIDE ELECTRICAL 08/09/2023			89,673.40
Check	08/24/2023	9214 Accounts Payable	REDFLEX TRAFFIC SYSTEMS, INC.			17,400.00
	Invoice	Date	Description		Check Sort Code	Amount
	INV0058658	07/31/2023	REDLIGHT CAMERA MONITORING JULY 2023			17,400.00
Check	08/24/2023	9215 Accounts Payable	REYES COCA-COLA BOTTLING LLC.			1,952.28
	Invoice	Date	Description		Check Sort Code	Amount
	11581215347	07/07/2023	CAFE FOOD AND BEVERAGE SUPPLIES			1,952.28
Check	08/24/2023	9216 Accounts Payable	SEDGWICK			2,920.00
	Invoice	Date	Description		Check Sort Code	Amount
	BRS-0020256	12/14/2022	REMOTE RISK CONTROL- NOVEMBER 2022			2,920.00
Check	08/24/2023	9217 Accounts Payable	STAPLES			598.69
	Invoice	Date	Description		Check Sort Code	Amount
	8071114479	07/31/2023	OFFICE SUPPLIES 7/18-7/26/23			598.69
Check	08/24/2023	9218 Accounts Payable	LEHR			348.70
	Invoice	Date	Description		Check Sort Code	Amount
	SI90570	07/31/2023	LEHR SEAT BELT, FUSION AND DOCKING BUCKLE			348.70
Check	08/24/2023	9219 Accounts Payable	SUMMIT UNIFORMS CORP			639.84
	Invoice	Date	Description		Check Sort Code	Amount
	59	07/06/2023	UNIFORM-MIRANDA HECKMAN			639.84
Check	08/24/2023	9220 Accounts Payable	TEMPERATURE TECHNOLOGY INC.			1,275.00
	Invoice	Date	Description		Check Sort Code	Amount
	I2600	07/31/2023	LIBRARY HVAC SERVICE 7/24/23			425.00
	I2612	08/02/2023	COMMUNITY CENTER HVAC SERVICE 8/1/23			425.00
	I2609	08/02/2023	CITY HALL HVAC SERVICE 7/17/23			425.00
Check	08/24/2023	9221 Accounts Payable	JENNIFER TRAN			39.04
	Invoice	Date	Description		Check Sort Code	Amount
	0703-073123EXP	07/31/2023	MILEAGE REIMBURSEMENT 07/03/23-07/31/23			39.04
Check	08/24/2023	9222 Accounts Payable	WASHINGTON HOSPITAL			100.00

	Invoice		Date	Description		Check Sort Code	Amount
	0723-NPD-LB		08/01/2023	LAB TEST JULY 2023			100.00
Check	08/24/2023	9223	Accounts Payable	WHAT'S HAPPENING			126.00
	Invoice		Date	Description		Check Sort Code	Amount
	02-149670		08/15/2023	SR CITIZEN STANDING ADV COM ADVERTISEMENT 8/15/23			126.00
Check	08/24/2023	9224	Accounts Payable	ORION SECURITY			1,444.00
	Invoice		Date	Description		Check Sort Code	Amount
	121205		04/08/2023	UNARMED, UNIFORMED SECURITY OFFICER 4/3/23 - 4/7/23			1,444.00
EFT	08/24/2023	671	Accounts Payable	SPECTRUM SMALL BUSINESS SERVICES, LLC	325084426 / 5348560846		844.32
	Invoice		Date	Description		Check Sort Code	Amount
	05012023-GENERAL		05/01/2023	SM BUS SUPPORT-TRAVEL (MIKE B) 04/16-04/18/23			844.32
EFT	08/24/2023	672	Accounts Payable	MONDAY.COM LTD (ACH)	021000089 / 31349993		9,600.00
	Invoice		Date	Description		Check Sort Code	Amount
	IN23010012929		07/27/2023	PROJECT PLANNING SAAS - 08/03/23 - 08/02/24			9,600.00
AP ZBA ACCOUNTS PAYABLE Totals:				Transactions: 48			$1,378,043.48

Checks:	46	$1,367,599.16
EFTs:	2	$10,444.32

LIVE Newark CA LIVE

Payment Batch Register

Bank Account: AP - ZBA ACCOUNTS PAYABLE

Batch Date: 08/24/2023

Type	Date	Number	Source	Payee Name	EFT Bank/Account	Transaction Amount
Bank Account: AP - ZBA ACCOUNTS PAYABLE						
EFT	08/24/2023	673	Accounts Payable	SEDGWICK CLAIMS MANAGEMENT SERVICES, INC.	121000248 / 4942808510	19,539.97

Invoice	Date	Description	Check Sort Code	Amount
SF-8510-01339961	08/01/2023	WORKERS COMPENSATION CLAIMS 07/03/2023-07/31/2023		19,539.97

AP ZBA ACCOUNTS PAYABLE Totals:			Transactions: 1	$19,539.97
EFTs:	1	$19,539.97		

STAFF REPORT

Item D. 2.

DATE	09/14/2023
TO	Honorable Mayor and City Council Members
FROM	Sheila Harrington, City Clerk
SUBJECT	Approval of July 27, 2023, minutes

Attachments

Minutes

Draft

Thursday, July 27, 2023
7:00 P.M.

A. ROLL CALL

Mayor Hannon called the meeting to order at 7:03 p.m. Vice Mayor Collazo, Council Members Bucci, Freitas, and Jorgens were present.

B. PRESENTATIONS

1. Commending the Deaf Plus Adult Community

   Mayor Hannon announced that the presentation would be rescheduled for a future meeting.

2. Introduction of employee(s)

   Mayor Hannon introduced Panhasak Bun, Police Officer.

C. PUBLIC COMMENT

No one requested to speak.

D. CONSENT CALENDAR

City Manager Benoun requested the removal of item D.7. for separate consideration.

Vice Mayor Collazo moved, Council Member Bucci seconded, to approve Consent Calendar Items D.1 through D.6, and D.8 to D.9 that the resolutions and ordinances be numbered consecutively, and that reading of the titles suffice for adoption. The motion passed, 5 AYES.

1. Approval of Audited Demands

2. Approval of July 13, 2023, minutes

3. Adopt a resolution amending the 2022-2024 Biennial Budget and Capital Improvement Plan for Fiscal Year 2024 for solid waste management program specialty contractual services by R3 Consulting Group, Inc.
   Resolution No. 11548
   Contract No. 22044

4. Adopt a resolution authorizing the City Manager to execute Contractual Services Agreements, in a form approved by the City Attorney, with BKF Engineers and NCE for on-call pavement engineering and management services
   Resolution No. 11549
   Contract No. 23057 BKF
   Contract No. 23058 NCE

5. Adopt a resolution approving a Salary Schedule in conformance with California Code of Regulations, Title 2, Section 570.5
   Resolution No. 11550

6. Adopt a resolution authorizing the City Manager to execute an agreement with Faro Technologies Incorporated for the Focus Premium Three-Dimensional Scanner and amend the 2022-2024 Biennial Budget and Capital Improvement Plan for FY 2024
   Resolution No. 11551

7. Adopt a resolution authorizing the acceptance of the State of California grants for Quiet Zone Safety Improvement in the amount of $2,000,000 and for Broadband Improvements in the amount of $1,800,000 and amend the 2022-2024 Biennial Budget and Capital Improvement Plan
Removed from Consent Calendar separate consideration

8. Adopt a resolution (1) adding multiple positions to the Employee Classification Plan; (2) adding and deleting multiple positions from the 2022-2024 Biennial Budget and Capital Improvement Plan for Fiscal Year 2024; (3) approving a Side Letter amending the Memorandum of Understanding between the City of Newark and Newark Association of Miscellaneous Employees; (4) amending the Compensation and Benefit Plan for Management, Supervisory and Professional Employees; (5) approving an amendment to the City's Salary Schedule; and (6) amending the 2022-2024 Biennial Budget and Capital Improvement Plan
Resolution No. 11552

9. Adopt a resolution finding that emergency conditions exist that do not permit a delay resulting from a competitive solicitation for bids and authorizing the City Manager to take necessary action to negotiate and award an emergency construction contract and expenditure for the repair of a roadway sinkhole and storm drain on Smith Avenue and amendment of the 2022-2024 Biennial Budget for Fiscal Year 2024; exempt from CEQA review per CEQA Guidelines Section 15301
Resolution No. 11553

NONCONSENT

7. Adopt a resolution authorizing the acceptance of the State of California grants for Quiet Zone Safety Improvement in the amount of $2,000,000 and for Broadband Improvements in the amount of $1,800,000 and amend the 20222024 Biennial Budget and Capital Improvement Plan
Resolution No. 11554

Council Member Freitas announced he would recuse himself due an economic conflict of interest in real properties that are a source of income in proximity to the Quiet Zone Safety Improvements. Council Member Freitas exited the City Council Chambers.

Council Member Jorgens stated that the grants with the State of California did not impact the office of his employer, a State Assembly Member.

City Manager Benoun gave the staff report recommending approval.

Council Member Bucci thanked Assembly Member Alex Lee for his assistance in acquiring the grants. He stated that the Broadband Community meeting will be held on August 25, 2023 at 2 pm.

Moved by Council Member Bucci, seconded by Council Member Jorgens to adopt a resolution. The motion passed 4 AYES, 1 RECUSED.

Council Member Freitas returned to the City Council Chambers.

E. PUBLIC HEARINGS

1. Hearing to consider adoption of a resolution approving Development Impact Fee amendments to the Master Fee Schedule for Fiscal Year 2024
Resolution No. 11555

City Manager Benoun stated that the Master Fee Schedule was undergoing a comprehensive review and would be presented to the City Council at a future meeting. He recommended increases to the Development Impact Fees based on the Engineering News Record Cost Construction Index.

Mayor Hannon opened the public hearing at 7:19 p.m.

No one requested to speak.

Mayor Hannon closed the public hearing at 7:19 p.m.

Moved by Council Member Freitas, seconded by Vice Mayor Collazo to adopt a resolution. The motion passed, 5 AYES.

2. Hearing to consider property owners' objections and adopt a resolution confirming the Superintendent of Streets' Report concerning weed abatement

assessments
Resolution No. 11556

City Manager Benoun gave the staff report recommending approval.

Mayor Hannon opened the public hearing at 7:20 p.m.

No one requested to speak.

Mayor Hannon closed the public hearing at 7:21 p.m.

Moved by Council Member Bucci, seconded by Vice Mayor Collazo to adopt a resolution. The motion passed, 5 AYES.

F. OTHER BUSINESS

1. Resolution approving an amendment to the Employment Agreement with City Manager David J. Benoun to serve as City Manager and an amendment to the 2022-2024 Biennial Budget and Capital Improvement Plan for Fiscal Year 2024
Resolution No. 11557

City Attorney Kokotaylo gave the staff report recommending approval.

Council Member Bucci stated City Manager Benoun has done a great job.

Vice Mayor Collazo thanked City Manager Benoun for his round the clock service.

Mayor Hannon stated that City Manager Benoun is an outstanding leader.

Moved by Council Member Bucci, seconded by Vice Mayor Collazo to adopt a resolution. The motion passed, 5 AYES.

G. CITY COUNCIL MATTERS

Council Member Bucci welcomed Officer Bun. He announced that Super Mario Brothers would play for Movie Night at the Community Center on Saturday. He stated that his friend Griffin Daily, announced his colon cancer diagnosis and he recommended that anyone 45 or older get screened.

Vice Mayor Collazo recommended people stay up to date on pneumonia vaccines and shared her experience with pneumonia. She welcomed Officer Bun. She noted that the city of Vallejo Police Department was understaffed and she felt safe here. She announced that OMT and Tortilla Soup would perform at Groovin at the Grove. Shop Newark.

Council Member Freitas stated that the Volunteer Recognition Ceremony was held last week. He thanked all of the volunteers for their service. He thanked City Manager Benoun for his service and noted that with 4 ½ years of service, he was one of the senior city managers in Alameda County.

Mayor Hannon congratulated Vice Mayor Collazo for the Mariachi Festival success. The Newark Optimist Club is hosting a garage sale this Saturday to benefit Relay for Life. The City Council holds an August Recess and will not meet again until September. September is the city of Newark's birthday.

H. CITY MANAGER UPDATES

City Manager Benoun stated that August 1 is National Night Out and Newark Days begins on September 14.

Assistant City Manager Hovorka stated that the Parks Master Plan and the Active Transportation Plan Updates will have a table at the Newark Days Community Information Faire. The Broadband Masterplan online survey was reopened until August 21. A Pop-up Recreation event will be held at Birch Grove Park on August 3 and a Family Fun Run at Lakeshore Park on August 18.

I. CLOSED SESSION

J. ADJOURNMENT

Mayor Hannon adjourned the meeting at 7:40 p.m.

STAFF REPORT

Item D. 3.

DATE	09/14/2023
TO	Honorable Mayor and City Council Members
FROM	Sheila Harrington, City Clerk
SUBJECT	Report on administrative actions during August recess

At the December 8, 2022, meeting the City Council adopted Resolution No. 11,446 authorizing the City Manager, or Acting City Manager, to act on certain administrative matters, which should not be deferred until the next regularly scheduled meeting of the City Council. The City Council directed the City Manager to report to the City Council after the recess on all such actions.

It is recommended that the City Council, by motion, affirm the City Manager's, or Action City Manager's, action on the matters listed in Exhibit.

Attachments

Exhibit A

Exhibit A

Date	Subject	Contract Number (if applicable)
08/08/2023	Sun Ridge Systems Software Support Services Agreement	C13013
08/30/2023	Amendment to Contractual Services Agreement with Surf to Snow Environmental Resource Management, Inc.	C22053

MEMORANDUM

POLICE DEPARTMENT | CITY OF NEWARK

DATE: **August 1, 2023,**

TO: **David Benoun, City Manager**

FROM: **Gina L. Anderson, Chief of Police**

SUBJECT: **Sun Ridge Systems Software Support Services Agreement**

On May 23, 2013, City Council awarded a contract to Sun Ridge Systems, Inc. for a computer aided dispatch/records management (CAD/RMS), and mobile software system for the police department. This contract also included a software support services agreement to maintain our system for the duration if its useful life. The annual agreement is effective August 29, 2023, through August 28, 2024, and covers all our Sun Ridge Systems, Inc. public safety software systems. The budgeted amount is $70,641.00. Once the agreement is approved, it will be routed via DocuSign for signatures.

RECOMMENDATION

Staff recommends the City Manager sign the software support services agreement for fiscal year 2023 – 2024.

Pursuant to Newark Resolution No. 11,446 adopted December 8, 2022, authorizing the City Manager or his designee to act upon certain administrative matters on behalf of the City during the city council summer recess of August 2023, I, David J. Benoun, hereby authorize the acceptance of an agreement with Sun Ridge Systems for software support services for fiscal year 2023 – 2024. City attorney has reviewed and approved the agreement.

David J. Benoun, City Manager

8-8-23

Date

Sun Ridge Systems Software Support Services Agreement

This is a description of the software support, maintenance, and update/upgrade services to be provided by Sun Ridge Systems, Inc. ("SRS") to the City of Newark, CA ("Licensee") as part of a Software Support Services Agreement ("Agreement"). This Agreement covers all RIMS public safety software (Software) licensed by the Licensee and is effective on August 29, 2023.

Under this agreement SRS agrees to provide the following services to Licensee:

1. **Coverage Hours.** SRS will provide a toll-free phone number and dedicated email address for support purposes during normal service hours. *Normal service hours are defined as Monday-Friday, 8AM-5PM PST, except for New Year's Day, Martin Luther King Day, Presidents Day, Memorial Day, July 4th, Labor Day, Veterans Day, Thanksgiving Day, Day after Thanksgiving, and Christmas Day ("common holidays").*

   However, for instances where the Licensee's system is completely inoperable due to an SRS software problem ("critical problems") preventing basic system operation, service will be available 24 hours, 7 days a week, common holidays included. Examples of critical problems include:

   - RIMS is down/not responding on multiple workstations
   - Cannot create a call for service (CAD Incident)
   - Cannot issue a case number
   - Unable to access NCIC
   - Other issues that will not allow the user to complete critical tasks

   Licensee will have taken reasonable measures prior to contacting SRS support during non-service hours including:

   - Verified that the issue is not related to just 1 workstation
   - Restarted the workstation in question
   - Contacted in-house IT support if the issue is related to network or server errors
   - Verified the issue is critical enough that it cannot wait until normal support hours

2. **SRS Response to reported problems.** SRS agrees to provide service and assistance as expeditiously as possible as follows:

   a. Most problems will be resolved with the initial phone call or email.
   b. For problems that cannot be immediately resolved, SRS will work to resolve the problem based on the severity of the problem *and* the urgency reported by Licensee.

      - For critical problems, SRS personnel will work with Licensee until the situation is resolved.

      - For problems that are not critical problems that have a lesser though continuing impact on operations of Licensee SRS will endeavor to provide a solution or workaround within 72 hours of the problem being reported to SRS by the Licensee.
      - For other problems SRS may, at its discretion, either issue a near term "fix release" of the product or include the fix in the next scheduled product update.

3. **Licensee equipment and software responsibilities.** Licensee agrees to allow SRS to remotely connect to Licensee's system when a problem is reported. SRS uses BeyondTrust remote access software for secure installation and follow-on support services. BeyondTrust software provides superior security and does so over an ordinary internet connection via an SRS server that hosts a BeyondTrust security hardware device.

   If Licensee does not allow unattended access, the SRS response to a service request may be delayed until a responsible party of the Licensee allows access. Once remote access is obtained, SRS will examine data files, investigate reported problems, and provide updates and corrections as necessary.

4. **Provision of software updates.** SRS will provide all new enhanced and updated versions of software licensed to Licensee at no additional cost. This software will be provided with detailed installation instructions for installation by Licensee. If desired, Licensee may retain SRS to perform any installation at additional cost to be determined on a per case basis. Updates are distributed via download from the SRS ftp web site. SRS will not be obligated to provide service for release versions that are more than two annual release versions older than the current release.

5. **Cost.** The cost of the services and software to be provided under this Agreement in the amount of $70,641.00.

6. **Late Payment.** In addition to any other amounts for which Licensee is liable under this Agreement, Licensee agrees to pay to SRS a late charge equal to one percent (1%) of the amount due if Licensee fails to pay SRS any amount that is due and owing pursuant to this Agreement within sixty (60) days after Licensee's receipt of an invoice from SRS or (60) days after the expiration of the previous Agreement, whichever comes later. In addition, any invoiced amounts that are due and owing under this Agreement which Licensee fails to pay to SRS within ninety (90) days after Licensee's receipt of an invoice from SRS shall thereafter bear interest at the rate of twelve percent (12%) per annum or the highest interest rate allowed by applicable law, whichever is less.

7. **Term**. The term of this Agreement shall be one year from the date stated in the initial paragraph and shall be annually renewed for another year upon payment of invoice. Payment for the year is due in advance the day the services begin. Non-payment of the support invoice within 60 days as described in Section 6 shall be cause for terminating or suspending the Agreement at the discretion of SRS.

8. **Termination.** Licensee may terminate this Agreement with or without cause upon ninety (90) days written notice to SRS. If terminated, Licensee is entitled to a prorated refund for the service days not consumed beginning on the last day of the month the written notice is received by SRS to the end of the remaining term of the Agreement.

9. **Limitations**. SRS agrees to provide support only for public safety application software provided by SRS. Other software used by Licensee (word processing, spreadsheet, etc.) is not included in this Agreement. PC and network operating system software and Microsoft SQL Server database system software is similarly not included, although SRS may assist Licensee in isolating problems to this software. (SRS reserves the right to charge for diagnostic services in the event it is determined that

the reported issue is not attributable to RIMS.) Also specifically excluded is responsibility for administration, support, or maintenance of Licensee' server, computer network, operating systems, or database (Microsoft SQL Server).

Licensee may request that SRS provide support services outside the limitations of this Support Services Agreement. If SRS agrees to provide any requested additional support services, such support services will be provided at SRS's current rate and under terms and conditions that SRS may require.

This Agreement does not include equipment maintenance or assistance in diagnosing hardware problems including but not limited to PCs, printers, network, scanners, and other computer peripheral devices with the exception that SRS will assist Licensee in determining whether a problem is RIMS application software in nature.

For:	Sun Ridge Systems, Inc.	For:	City of Newark
Name:	Tamera Melrose	Name:	DAVID J. BERGEN
Signed:		Signed:	
Title:	Client Services Manager	Title:	City Manager
Date:	June 22, 2023	Date:	8-8-23

Sun Ridge Systems, Inc.

To: Marisa Huntley, Newark Police Department

From: Tamera Melrose

Subject: Quotation for RIMS- Annual Support and Update Fees

Date: June 20, 2023

The following is a quotation for RIMS Annual Support and Update fees for the period of August 29, 2023 to August 28, 2024.

Item	Price
RIMS Annual Support and Updates – Computer Aided Dispatch (CAD)	$18,299
RIMS Annual Support and Updates – Records Management Software (RMS)	$17,477
RIMS Annual Support and Updates – Mobile Software	$8,760
RIMS Annual Support and Updates – E-911 Software	$2,008
RIMS Annual Support and Updates – State Link Software	$2,737
RIMS Annual Support and Updates – In-Station (CAD) Mapping	$4,497
RIMS Annual Support and Updates – Property Room Software	$2,420
RIMS Annual Support and Updates – Mugshot/Digital Imaging	$2,190
RIMS Annual Support and Updates – Collaborate Data Sharing Software	$1,459
RIMS Annual Support and Updates – CopLink Link Software	$1,186
RIMS Annual Support and Updates – Citizen RIMS Software	$2,648
RIMS Annual Support and Updates – AFIS to Cogent Link Software	$767
RIMS Annual Support and Updates – AFIS to DataWorks Link Software	$1,250
RIMS Annual Support and Updates – ARIES Link Software	$1,459
RIMS Annual Support and Updates – Mobile Mapping Software	$2,283
RIMS Annual Support and Updates – Training Management Software (TIMS)	$886
RIMS Annual Support and Updates – AutoCite to Turbo Data Link Software	$315
	$70,641

*Includes Azure On-time Transaction fees

This support quote is only for the listed modules, if additional software or interfaces are added or modified it may impact the support amount quoted. If you have any further questions, please call me at 1-800-474-2565 x5.

I HEREBY CERTIFY the foregoing resolution was introduced at a regular meeting of the City Council of the City of Newark held on December 8, 2022, by Council Member Collazo who moved its adoption and passage, which motion was carried after being duly seconded, and passed by the following vote:

AYES:	Council Members Bucci, Collazo, Freitas, Jorgens, and Mayor Hannon
NOES:	None
ABSENT:	None
SECONDED:	Council Member Freitas

APPROVED:

s/MICHAEL K. HANNON
Mayor

ATTEST:

s/SHEILA HARRINGTON
City Clerk

APPROVED AS TO FORM:

s/KRISTOPHER J. KOKOTAYLO
City Attorney

NEWARK
california

CITY OF NEWARK

Memo

DATE: August 28, 2023

TO: David Benoun, City Manager

VIA: Soren Fajeau, Public Works Director

FROM: James Scanlin, Environmental Services Manager

SUBJECT: Amendment to Contractual Services Agreement with Surf to Snow Environmental Resource Management, Inc.

Attached is an amendment to the Consultant Services Agreement with Surf to Snow Environmental Resource Management, Inc. (Surf to Snow) to add $65,000.00 for a new not-to-exceed amount of $120,120, modify the scope of services, and revise the termination date to June 30, 2024.

After releasing a request for proposals and evaluating the submittals the City selected Surf to Snow to conduct stormwater compliance inspections of industrial and commercial facilities. The term of the contract was for one year with the option to extend for two additional one-year periods. The contract term ended on June 30, 2023.

The City is required by the terms of the Municipal Regional Stormwater Permit to conduct stormwater compliance inspections of commercial and industrial facilities every fiscal year. Surf to Snow has satisfactorily completed the scope of services for Fiscal Year 2023. Funding is available in the Storm Drain Maintenance/NPDES account. The Agreement, Resolution, and First Amendment are attached.

RECOMMENDATION:
Pursuant to Newark Resolution No. 11446, Adopted December 8, 2022, authorizing the City Manager or his designee to act upon certain administrative matters on behalf of the City during the City Council summer recess of August 2023, I, David Benoun, hereby authorize the acceptance of the First Amendment to the Agreement with Surf to Snow Environmental Resource Management, Inc.

David J. Benoun, City Manager

By

FIRST AMENDMENT TO THE CONTRACTUAL SERVICES AGREEMENT BETWEEN THE CITY OF NEWARK AND SURF TO SNOW ENVIRONMENTAL RESOURCES, INC.

This First Amendment to Contractual Services Agreement between the City of Newark, a municipal corporation, ("City") and Surf to Snow Environmental Resources, Inc., ("Consultant") dated July 28, 2022 (the "Agreement"), is entered into as of August 30, 2023 for the provision of Municipal Stormwater Inspection Services.

RECITALS

WHEREAS, the City and Surf to Snow Environmental Resources, Inc. ("Consultant") entered into an Agreement between City and Consultant for Municipal Stormwater Inspection Services effective July 28, 2022 (Agreement); and

WHEREAS, Consultant has satisfactorily completed the scope of services in the Municipal Stormwater Inspection Services Agreement; and

WHEREAS, Municipal Stormwater Inspections are required by the City's Municipal Regional Stormwater Permit to be conducted annually; and

WHEREAS, the City intends, upon mutual written agreement by both parties to renew the agreement for an additional year as provided for in the Agreement.

NOW, THEREFORE, in consideration of the foregoing recitals and other good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

(1) Notwithstanding Section 1 of the Agreement, the parties hereby agree to add additional funding in the amount of $65,000.00 to the Agreement for a new not to exceed the amount of $120,120.00.
(2) Notwithstanding Section 3 of the Agreement, the parties hereby agree to revise the payment schedule of the Agreement to the payment schedule as contained in Exhibit B.
(3) Notwithstanding Section 16 of the Agreement, the parties hereby agree to revise the Term/Termination date of the agreement to June 30, 2024.

The First Amendment of the Agreement for Municipal Stormwater Inspection Services has been executed by the parties as of the date first set forth above.

City of Newark

David J. Benoun
City Manager

Dated 8-30-23

Consultant

Ruth Abbie
President
Abbie and Associates

Dated_____

Attest:

Sheila Harrington
City Clerk

Approved as to Form:

Kristopher J. Kokotaylo
City Attorney

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CONTRACTUAL SERVICES AGREEMENT
CONSULTANTS

This Service Agreement (hereinafter "Agreement") is made and entered into this 1st day of August , 2022 by and between the **CITY OF NEWARK**, a municipal corporation ("City"), and Surf to Snow Environmental Research Management, Inc., a California corporation ("Consultant"), collectively the "Parties".

W I T N E S S E T H:

WHEREAS, City requested proposals to perform Municipal Stormwater Inspection Services.

WHEREAS, in response to City's request, Consultant submitted a proposal (hereinafter "Proposal"), now on file with the City Public Works Department and incorporated herein by reference; and, after negotiations, Consultant agreed to perform the "Services" more particularly described in Exhibit "A" ("Services"), in return for the compensation described in this Agreement and Exhibit "B".

WHEREAS, in reliance upon Consultant's documentation of its qualifications, as set forth in the Proposal, City finds that Consultant has demonstrated the requisite qualifications, experience, training, and expertise to perform the requested Services.

NOW, THEREFORE, the Parties hereto agree as follows:

1. **CONSULTANT'S SERVICES.** Consultant shall perform Services described, and in the time, place, and manner specified in Exhibit "A" in accordance with the terms and conditions of this Agreement. In the event of a conflict in or inconsistency between the terms of this Agreement and Exhibit "A", the Agreement shall control.

2. **TIME FOR PERFORMANCE.** Time is of the essence in the performance of Services under this Agreement and Consultant shall generally adhere to the schedule set forth in Exhibit "A"; provided, that City shall grant reasonable extensions of time for the performance of such Services occasioned by governmental reviews of Consultant's work product or other unavoidable delays occasioned by circumstances, provided, further, that such unavoidable delays shall not include strikes, lockouts, work stoppages, or other labor disturbances conducted by, or on behalf of, Consultant's officers or employees. Any Services for which times for performance are not specified in this Agreement shall be commenced and completed by Consultant in a reasonably prompt and timely manner based upon the circumstances and direction communicated to Consultant.

Consultant acknowledges the importance to City of City's performance schedule and agrees to put forth its best professional efforts to perform its Services under this Agreement in a manner consistent with that schedule. City understands, however, that Consultant's performance must be governed by sound professional practices.

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3. **COMPENSATION.**

A. **"Not to Exceed" Compensation.** City shall compensate Consultant for all Services performed by Consultant hereunder in an amount based upon Consultant's hourly or other rates set forth in Exhibit "B". The payments specified in Exhibit "B" shall be the only payments to be made to Consultant for Services rendered pursuant to this Agreement.

Notwithstanding the foregoing, the combined total of compensation and costs payable hereunder shall not exceed the sum of Fifty-Five Thousand One Hundred Twenty Dollars ($55,120.00) unless the performance of services and/or reimbursement of costs and expenses in excess of said amounts have been approved in advance of performing such services and/or incurring such costs and expenses by City, evidenced in writing as Additional Services by Task Order (see Section 4. Additional Services of this Agreement).

B. **Method of Billing.** To request payment, Consultant shall submit monthly invoices to City identifying Services performed and the charges therefore (including an identification of personnel who performed Services, hours worked, hourly rates, and reimbursable expenses), based upon Consultant's billing rates (set forth on Exhibit "B" hereto).

Consultant shall submit all billings for said Services to City in the manner specified in Exhibit "B"; or, if no manner is specified in Exhibit "B", then according to the usual and customary procedures and practices which Consultant uses for billing clients similar to City.

Invoices shall be sent to:

City of Newark
Public Works Department
37101 Newark Blvd.
Newark, CA 94560

Upon completion of Services, City shall sign off and acknowledge that all terms and conditions have been satisfactorily met; upon which, unless waived by City in writing, Consultant shall prepare an itemized statement, briefly describing by task and/or labor category the items billed.

C. **Payment.** Upon receipt of invoice, City shall make payments to Consultant on a monthly basis, or at such other times as may be specified in Exhibit "B", for Services, which are performed in accordance with this Agreement to the satisfaction of City.

D. **Consultant's Failure to Perform.** In the event that Consultant performs Services that do not comply with the requirements of this Agreement, Consultant shall, upon receipt of written notice from City, re-perform the services (without additional compensation to Consultant). If Consultant's failure to perform in accordance with this Agreement causes damages to City, Consultant shall reimburse City for the damages incurred (which may be charged as an offset to Consultant's payment).

4. **ADDITIONAL SERVICES.** In the event City desires the performance of additional services not otherwise included within Services, such services shall be authorized by

written Task Order approved in advance of the performance thereof. Such Task Order shall include a description of the services to be performed thereunder, the maximum compensation and reimbursement of costs and expenses payable therefore, the time of performance thereof, and such other matters as the Parties deem appropriate for the accomplishment of such services. Except to the extent modified by a Task Order, all other terms and conditions of this Agreement shall be deemed incorporated in each such task order.

5. INDEPENDENT CONSULTANT. At all times during the term of this Agreement, Consultant shall be, and is an independent consultant and shall not be an employee or agent of City. Consultant shall not be entitled to any benefit, right, or compensation other than that provided in this Agreement. City shall have the right to control Consultant only insofar as the results of Consultant's Services; however, City shall not have the right to control the means by which Consultant accomplishes Services rendered pursuant to this Agreement.

Except as City may specify in writing, Consultant shall have no authority, express or implied, to act on behalf of City in any capacity whatsoever as an agent. Consultant shall have no authority, express or implied, pursuant to this Agreement to bind City to any obligation whatsoever.

6. PERSONNEL. Consultant understands that, in entering into this Agreement, City has relied upon Consultant's ability to perform in accordance with its representations regarding the qualifications of Consultant, including the qualifications of its Authorized Representative, its designated personnel, and its subconsultants, if any, identified in the Proposal. Therefore, Consultant shall not replace its Authorized Representative, or any of the designated personnel or subconsultants identified in the Proposal, without the prior written consent of City. All Services shall be performed by, or under, the direct supervision of Consultant's Authorized Representative.

In the event that City, in its sole discretion, at any time during the term of this Agreement, desires the removal of any of Consultant's designated personnel or subconsultants, Consultant shall, immediately upon receiving notice from City of such desire of City, cause the removal of such person or persons.

7. FACILITIES AND EQUIPMENT. Consultant shall, at its sole cost and expense, furnish all facilities and equipment which may be required for furnishing Services.

8. INFORMATION AND DOCUMENTATION.

A. Information from City. City has made an effort to provide Consultant with all information necessary for Consultant's performance of Services. If Consultant believes additional information is required, Consultant shall promptly notify City and City will provide to Consultant all relevant non-privileged information in City's possession.

B. Consultant's Accounting Records. Consultant shall maintain all accounting records related to this Agreement in accordance with generally accepted accounting principles and state law requirements, and in no event for less than four (4) years. Consultant's accounting records shall include, at a minimum, all documents which support Consultant's costs and expenses related to this Agreement, including personnel, subconsultants' invoices and

payments, and reimbursable expenses. Consultant's accounting records shall be made available to City within a reasonable time after City's request, during normal business hours.

C. **Ownership of Work Product.** All original documents prepared by Consultant (including its employees and subconsultants) for this Agreement ("Work Product"), whether complete or in progress, are the property of City and shall be given to City at the completion of Consultant's Services, or upon demand of City. Consultant shall have a right to make and keep copies of the Work Product except for any confidential information. Consultant shall not reveal the Work Product or the confidential information contained in the Work Product, or make it available, to any third party without the prior written consent of City.

9. **CONFLICTS OF INTEREST PROHIBITED.** Consultant (including its employees, agents, and subconsultants) shall not maintain or acquire any direct or indirect interest that conflicts with the performance of this Agreement. Consultant shall comply with all requirements of the Political Reform Act (California Government Code Section 81000, *et seq.*) and other laws relating to conflicts of interest, including: (a) Consultant shall not make or participate in a decision made by City if it is reasonably foreseeable that the decision may have a material effect on Consultant's economic interest, and (b) if required by law, Consultant shall file financial disclosure forms with the City Clerk. If Consultant maintains or acquires a conflicting interest, any contract with City (including this Agreement) involving Consultant's conflicting interest may be terminated by City.

10. **NONDISCRIMINATION.** Consultant shall comply with all applicable federal, state, and local laws regarding nondiscriminatory employment practices, whether or not said laws are expressly stated in this Agreement. Consultant shall not discriminate against any employee or applicant because of race, color, religious creed, national origin, physical disability, mental disability, medical condition, marital status, sexual orientation, sex, age, or any other basis, as defined in California Civil Code Section 51.

11. **COMPLIANCE WITH LAW AND STANDARD OF CARE.** Consultant shall comply with all applicable legal requirements including all federal, state, and local laws (including ordinances and resolutions), whether or not said laws are expressly stated in this Agreement. Consultant shall perform Services using a standard of care equal to, or greater than, the degree of skill and diligence ordinarily used by reputable professionals, with a level of experience and training similar to Consultant, performing under circumstances similar to those required by this Agreement.

12. **INSURANCE.** Consultant shall procure and maintain for the duration of this Agreement insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Consultant, his agents, representatives, subconsultants, or employees.

A. **Verification of Coverage.**

Consultant shall furnish City with original certificates of insurance and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be

signed by a person authorized by that insurer to bind coverage on its behalf. All certificates and endorsements are to be received and approved by City before work commences. City reserves the right to require and obtain complete, certified copies of all required insurance policies and endorsements at any time. Failure to exercise this right at any time shall not constitute a waiver of right to exercise later. Consultant shall immediately furnish City with certificates of renewal for each policy that is renewed during the term of this Agreement.

B. Minimum Scope of Insurance.

Coverage shall be at least as broad as:

1. Insurance Services Office Form Number CG 00 01 covering Commercial General Liability on an occurrence basis, including products and completed operations, property damage, bodily injury, and personal and advertising inquiry; and

2. Insurance Services Office Form Number CA 00 01 covering Code 1 (any auto), or Code 8 (hired) and Code 9 (non-owned) if consultant has no owned autos; and

3. Workers' Compensation insurance as required by the State of California, with Statutory Limits, and Employer's Liability Insurance; and

4. Errors and Omissions Liability insurance appropriate to the Consultant's profession. Architects' and Engineers' coverage is to be endorsed to include contractual liability.

C. Minimum Limits of Insurance.

It shall be a requirement under this Agreement that any available insurance proceeds broader than or in excess of the specified minimum Insurance coverage requirements and/or limits shall be available to the Additional Insured. Furthermore, the requirements for coverage and limits shall be (1) the minimum coverage and limits specified in this Agreement; or (2) the broader coverage and maximum limits of coverage of and Insurance policy or proceeds available to the named Insured; whichever is greater.

Consultant shall maintain limits no less than:

1. General Liability: (including products-completed operations, property damage, bodily injury, and personal and advertising injury)	**$2,000,000** per occurrence for bodily injury, personal injury, and property damage. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.
2. Automobile Liability:	**$1,000,000** per accident for bodily injury and property damage.
3. Employer's Liability:	**$1,000,000** per accident for bodily injury or disease.
4. Errors and Omissions Liability:	**$1,000,000** per occurrence or claim; **$2,000,000** aggregate.

D. Deductibles and Self-Insured Retentions.

Any deductibles or self-insured retentions must be declared to and approved by the City. At the option of City, either: (1) the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects to City, its officers, officials, directors, employees, contractors, agents, and volunteers, or (2) Consultant shall provide a financial guarantee satisfactory to City guaranteeing payment of losses and related investigations, claim administration, and defense expenses in an amount specified by the City.

E. Claims Made Policies.

For all "claims made" coverage, in the event that Consultant changes insurance carriers Consultant shall purchase "tail" coverage or otherwise provide for continuous coverage covering the Term of this Agreement and not less than five (5) years thereafter. Proof of such "tail" or other continuous coverage shall be required at any time that the Consultant changes to a new carrier.

F. Wasting Policies.

No policy required by this paragraph 12 shall include a "wasting" policy limit (i.e. limit that is eroded by the cost of defense).

G. Remedies.

In addition to any other remedies City may have if Consultant fails to provide or maintain any insurance policies or policy endorsements to the extent and within the time herein required, City may, at its sole option exercise any of the following remedies, which are alternatives to other remedies City may have and are not the exclusive remedy for Consultant's breach:

1. Obtain such insurance and deduct and retain the amount of the premiums for such insurance from any sums due under the Agreement;

2. Order Consultant to stop work under this Agreement or withhold any payment that becomes due to Consultant hereunder, or both stop work and withhold any payment, until Consultant demonstrates compliance with the requirements hereof; and/or

3. Terminate this Agreement.

H. Acceptability of Insurers.

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A:VII, unless otherwise acceptable to the City. All insurance companies providing coverage to Consultant shall be insurance organizations authorized by the Insurance Commissioner of the State of California to transact the business of insurance in the State of California.

I. Other Insurance Provisions.

The general liability and automobile liability policies are to contain, or be endorsed to contain, the following provisions:

1. Additional Insureds. City, its officers, officials, directors, employees and volunteers ("Additional Insureds") are to be covered as insureds with respect to liability arising out of work or operations performed by or on behalf of Consultant; including materials, parts or equipment furnished in connection with such work or operations.

2. Primary Coverage. For any claims related to Services, Consultant's insurance coverage shall be primary insurance as respects City, its officers, officials, directors, employees, and volunteers. Any insurance or self-insurance maintained by City, its officers, officials, directors, employees, or volunteers shall be excess of Consultant's insurance and shall not be contribute with it. Consultant's policy will not seek contribution from the City's insurance or self-insurance.

3. Notice of Cancellation. Each insurance policy required above shall provide that coverage and shall not be canceled during the term of this Agreement without notice to the City.

4. Civil Code § 2782. Coverage shall not extend to any indemnity coverage for the active negligence of the additional insured in any case where an agreement to indemnify the additional insured would be invalid under Subdivision (b) of Section 2782 of the California Civil Code.

5. Deductibles and Self-Insured Retentions (SIR). All deductibles and self-insured retentions must be disclosed to the City for approval and shall not reduce the limits of liability. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named Insured or the City.

6. Subconsultants. Consultant shall include all subconsultants as insureds under its policies or shall require and verify separate certificates and endorsements have been obtained for each subconsultant. All coverages for subconsultants shall be subject to all of the requirements stated herein.

7. Waiver of Subrogation. With respect to Workers' Compensation and Employer's Liability Coverage, the insurer shall agree to waive all rights of subrogation against City, its officers, officials, directors, employees, and volunteers for losses arising from work performed by Consultant for City.

8. Coverage is Material Element. Maintenance of proper insurance coverage in conformity with the provision of this paragraph 12 is a material element of this Agreement and failure to maintain or renew coverage or to provide evidence of coverage or renewal may be treated by City as a material breach of this Agreement.

9. Variation. The City Risk Manager may approve a variation in these insurance requirements upon a determination that the coverage, scope, limits, and form of such insurance are either not commercially available or that City's interests are otherwise fully protected. Any variation granted shall be done in writing and shall be made a part of this Agreement as Appendix "A".

13. REPORTING DAMAGES. If any damage (including but not limited to death, personal injury or property damage) occurs in connection with the performance of this Agreement, Consultant shall immediately notify the City Risk Manager's office by telephone at 510-578-4428, and Consultant shall promptly submit to the City's Risk Manager and the City's Administrator (see paragraph 18, hereinbelow) a written report (in a form acceptable to City) with the following information: (a) name(s) and address(es) of the injured or deceased person(s), (b) name(s) and address(es) of witnesses, (c) name(s) and address(es) of Consultant's insurance company(ies), and (d) a detailed description of the damage(s) and whether any City property was involved.

14. INDEMNIFICATION/SAVE HARMLESS. To the fullest extent permitted by law, the Consultant shall: (1) immediately defend, and (2) indemnify City, its, officers, officials, directors, employees, and volunteers from and against all liabilities regardless of nature or type arising out of or resulting from Consultant's performance of Services, or any negligent or wrongful act or omission of Consultant or Consultant's officers, employees, agents, or subconsultants. Liabilities subject to the duties to defend and indemnify include, without limitation all claims, losses, damages, penalties, fines, and judgments; associated investigation and administrative expenses; defense costs, including but not limited to reasonable attorneys' fees; court costs; and costs of alternative dispute resolution. Consultant's obligation to indemnify applies unless it is adjudicated that its liability was caused by the sole active negligence or sole willful misconduct of an indemnified party. If it is finally adjudicated that liability is caused by the comparative active negligence or willful misconduct of an indemnified party, Consultant's indemnification obligation shall be reduced in proportion to the established comparative liability of the indemnified party.

In the event that Consultant or any employee, agent, or subconsultant of Consultant providing services under this Agreement is determined by a court of competent jurisdiction or the California Public Employees Retirement System (PERS) to be eligible for enrollment in PERs as an employee of City, Consultant shall indemnify, defend, and hold harmless City for the payment of any employee and/or employer contributions for PERS benefits on behalf of Consultant or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of City.

The duty to defend is a separate and distinct obligation from Consultant's duty to indemnify. Consultant shall be obligated to defend, in all legal, equitable, administrative, or special proceedings, with counsel approved by City immediately upon tender to Consultant of the claim in any form or at any stage of an action or proceeding, whether or not liability is established. An allegation or determination of comparative active negligence or willful misconduct by an indemnified party does not relieve the Consultant from its separate and distinct obligation to defend City. The obligation to defend extends through final judgment, including exhaustion of any appeals. The defense obligation includes an obligation to provide independent defense counsel if Consultant asserts that liability is caused in whole or in part by the negligence or willful misconduct of the indemnified party. If it is finally adjudicated that liability was caused by the sole active negligence or sole willful misconduct of an indemnified party, Consultant may submit a claim to City for reimbursement of reasonable attorneys' fees and defense costs.

The review, acceptance or approval of Consultant's work or work product by any indemnified party shall not affect, relieve or reduce Consultant's indemnification or defense obligations. This paragraph survives completion of Services or the termination of this contract. The provisions of this paragraph are not limited by and do not affect the provisions of this contract relating to insurance.

Consultant/Subconsultant's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Agreement for the full period of time allowed by law. The defense and indemnification obligations of this Agreement are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Agreement.

15. LICENSES, PERMITS, ETC. Consultant represents and warrants to City that it has all licenses, permits, qualifications, and approvals of whatsoever nature that are legally required for Consultant to practice its profession. Consultant represents and warrants to City that Consultant shall, at its sole cost and expense, keep in effect at all times during the term of this Agreement any licenses, permits, and approvals which are legally required for Consultant to practice its profession. In addition to the foregoing, Consultant shall obtain and maintain during the term hereof a valid City of Newark Business License.

16. TERM/TERMINATION.

A. The term of this Agreement shall commence upon the date first hereinabove written and shall expire on June 30, 2023. At the end of the term, the City may

renew this Agreement for two (2) one-year terms as authorized by the by the Public Works Director, City Manager, or City Council.

B. Notwithstanding the provisions of paragraph 16 section A above, City may terminate this Agreement at any time and without cause upon written notification to the Consultant. Consultant may cancel this Agreement upon thirty (30) day's written notice to City and shall include in such notice the reasons for cancellation. In the event of such termination, City shall compensate Consultant for Services rendered and reimburse Consultant for costs and expenses incurred, to the date of termination, calculated in accordance with the provisions of paragraph 3. In ascertaining the Services actually rendered to the date of termination, consideration shall be given both to completed work and work in process of completion. Nothing herein contained shall be deemed a limitation upon the right of City to terminate this Agreement for cause, or otherwise to exercise such rights or pursue such remedies as may accrue to City hereunder.

17. CONTRACT ADMINISTRATION. This Agreement shall be administered by the Public Works Director of the City of Newark ("Administrator"). All correspondence shall be directed to or through the Administrator or his/her designee.

18. NOTICES. Written notices required or convenient hereunder shall be delivered personally or by depositing the same with the United States Postal Service, first class (or equivalent) postage prepaid and addressed, in the case of Consultant, to:

SURF TO SNOW ENVIRONMENTAL RESOURCE MANAGEMENT, INC.	**CITY OF NEWARK**
Elizabeth Frantz	PUBLIC WORKS DIRECTOR
Chief Operating Officer	**Administrator**
Address: Surf to Snow 696 San Ramon Valley Blvd. #368 Danville, CA 94526 Attn: Elizabeth Frantz	City of Newark Attn: Public Works Director 37101 Newark Boulevard Newark, CA 94560

19. PARAGRAPH HEADINGS. Paragraph headings used herein are for convenience only and shall not be deemed to be a part of such paragraphs and shall not be construed to change the meaning thereof.

20. EXHIBITS. All exhibits referred to herein are attached hereto and are by this reference incorporated herein.

21. SEVERABILITY. If any term of this Agreement (including any phrase, provision, covenant, or condition) is held by a court of competent jurisdiction to be invalid or unenforceable, the Agreement shall be construed as not containing that term, and the remainder of this Agreement shall remain in full force and effect; provided, however, this paragraph shall not be applied to the extent that it would result in a frustration of the Parties' intent under this Agreement.

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22. **GOVERNING LAW, JURISDICTION, AND VENUE.** The interpretation, validity, and enforcement of this Agreement shall be governed by and interpreted in accordance with the laws of the State of California. Any suit, claim, or legal proceeding of any kind related to this Agreement shall be filed and heard in a court of competent jurisdiction in the County of Alameda.

23. **ATTORNEY'S FEES.** In the event any legal action is commenced to enforce this Agreement, the prevailing party is entitled to reasonable attorney's fees, costs, and expenses incurred.

24. **ASSIGNABILITY.** Neither Consultant nor City shall subconsult, assign, sell, mortgage, hypothecate, or otherwise transfer their respective interests or obligations in this Agreement without the express prior written consent of the non-transferring party.

25. **MODIFICATIONS.** This Agreement may not be modified orally or in any manner other than by an agreement in writing signed by both Parties.

26. **WAIVERS.** Waiver of breach or default under this Agreement shall not constitute a continuing waiver of a subsequent breach of the same or any other provision of this Agreement.

27. **ENTIRE AGREEMENT.** This Agreement, including all documents incorporated herein by reference, comprises the entire integrated understanding between the Parties concerning the Services. This Agreement supersedes all prior negotiations, agreements, and understandings regarding this matter, whether written or oral. The documents incorporated by reference into this Agreement are complementary; what is called for in one is binding as if called for in all.

28. **SIGNATURES.** The individuals executing this Agreement represent and warrant that they have the right, power, legal capacity, and authority to enter into and to execute this Agreement on behalf of the respective legal entities of Consultant and City. This Agreement shall inure to the benefit of and be binding upon the Parties hereto and their respective successors and assigns.

29. **COVENANT AGAINST CONTINGENT FEES.** Consultant hereby warrants that Consultant has not employed or retained any company or person, other than a *bona fide* employee working for Consultant, to solicit or secure this Agreement, and Consultant has not paid or agreed to pay any company or person, other than a *bona fide* employee, any fee, commission, percentage, brokerage fee, gift, or any other consideration contingent upon or resulting from the award or formation of this Agreement. For breach or violation of this warranty, City shall have the right to annul this Agreement without liability or, at City's discretion, to deduct from the Agreement price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gift or contingent fee.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement the day and year first hereinabove written.

City of Newark

DocuSigned by:
Lenka Havorka for
5DAB8ABE4F2D491...
David J. Benoun

City Manager

Dated 7/29/2022

Surf to Snow Environmental Resource Management, Inc.

DocuSigned by:
Elizabeth Frantz
Elizabeth Frantz

Chief Operating Officer

Dated 7/29/2022

Attest:

DocuSigned by:
Sheila Harrington
Sheila Harrington, City Clerk

Dated 8/1/2022

Approved as to form:

DocuSigned by:
kristopher kokotaylo
ABEC8AEEC9714E4...
Kristopher Kokotaylo, City Attorney

Dated 7/29/2022

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EXHIBIT A

SCOPE OF SERVICES

Consultant Stormwater Inspection services required pertain to the Municipal Regional Stormwater NPDES Permit Order No. R2-2022-0018 (MRP).

MRP C.3. Inspections
Consultant to provide inspection services and related duties pertaining to MRP C.3. Operation and Maintenance (O&M) Verification Inspections of sites with stormwater treatment and hydromodification management measures. Consultant will conduct inspections of approximately 10-15 Regulated Projects. Out of those inspections, approximately 50% will require a second inspection and 10-15% will require a third inspection. As the number of Regulated Projects with installed stormwater management measures increases, the number of required annual inspections will increase as well, with the target number of inspections equal to about one-third of the total number of Regulated Projects. Vault-based stormwater management measures within the City are inspected by third-party inspectors, as allowed under MRP C.3. Review of these third-party inspections is included under this scope.

MRP C.4. Inspections
Consultant to provide inspection services and related duties pertaining to MRP C.4., inspections of Best Management Practices at industrial and commercial facilities. Consultant will conduct an average of 90 first inspections on a yearly basis. Out of these it is expected that approximately 10-15% will require a second inspection and approximately 5% will require a third inspection. City staff will provide the anticipated inspection list to Contractor each year of the contract. However, the inspection list may be modified on occasion in response to business opening/closure or complaints.

Related tasks include, but are not limited to:

- Review of O&M/Inspection records
- Scheduling of inspections and interfacing with business owners/site representatives
- Knowledge of and adherence to City's Enforcement Response Plans for MRP Provisions C.3. and C.4.
- Completion of County-wide standard SSBIR/SSFIR forms
- Collection of geographic information system (GIS) mapping data for each stormwater management measure
- Distribution of appropriate informational literature provided by the City
- Resolution of active or potential violations or deficiencies
- Documentation and reporting as required by City representatives

MRP C.5 Illicit Discharge Response

Consultant to provide on-call illicit discharge and spill response services. The Consultant follow all applicable safety and injury and illness prevention protocols and the City's Enforcement Response Plan if called up on to investigate reported spills, develop actions plans, assist with spill containment, assist with recordkeeping and time tracking, conduct follow-up work, or other activities as required by the City.

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EXHIBIT B

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Surf to Snow Environmental Resource Management, Inc.

Pricing Summary

MRP Provision C.3 O&M Verification Inspections (Unit Rate)

Units	Unit Rate	Number of Locations per Year	Fiscal Y1 Estimated Total
C.3 O&M Inspection (Initial)	$ 315.00	12.00	$ 3,780.00
C.3 O&M Inspection (1st Re-Insp)	$ 250.00	6.00	$ 1,500.00
C.3 O&M Inspection (2nd Re-Insp)	$ 250.00	1.00	$ 250.00
C.3 Inspection Total			**$ 5,530.00**

MRP Provision C.4 Business Inspections (Unit Rate)

Units	Unit Rate	Number of Locations per Year	Fiscal Y1 Estimated Total
C.4 Business Inspection (Initial)	$ 315.00	90.00	$ 28,350.00
C.4 Business Inspection (1st Re-Insp)	$ 250.00	11.00	$ 2,750.00
C.4 Business Inspection (2nd Re-Insp)	$ 250.00	1.00	$ 250.00
C.4 Inspection Total			**$31,350.00**

Spill & Discharge Response (Unit Rate)

Task	Unit Rate	Number of Locations per Year	Fiscal Y1 Estimated Total
Illicit Discharge - Typical Spill Response	$ 714.00	9.00	$ 6,426.00
Illicit Discharge - Emergency Weekend/After-Hours Spill Response	$ 1,329.00	1.00	$ 1,329.00
Spill & Discharge Response Total			**$ 7,755.00**

Post-Inspection Reporting & Deliverables (T&M)

Task	Fiscal Y1 Estimated Total
Monthly Reporting	$ 720.00
Weekly Reporting	$ 3,120.00
Post-Inspection Reporting & Deliverable Total	**$ 3,840.00**

Project Management & QAQC (T&M)

Task	Fiscal Y1 Estimated Total
Project Management & QAQC	$ 5,790.00
Communication with City (meetings/calls)	$ 855.00
Project Management & QAQC Total	**$ 6,645.00**

Estimated Year 1 Total	**$55,120.00**

T&M Rates

Labor Category	Normal Hourly Rates	Weekend/ After Hours Hourly Rate
Contract Manager	$ 165.00	$ 247.50
Assistant PM/Field POC	$ 120.00	$ 180.00
QSD	$ 140.00	$ 210.00
QSP	$ 110.00	$ 165.00
DI	$ 95.00	$ 142.50
GIS	$ 98.00	$ 147.00

Assumptions

1 Initial C.3/C.4 inspection units include time for research, scheduling, onsite inspection, reporting, & time to collect GIS data for the City's database. Assume total of 3 hours per inspection on average.

2 C.3/C.4 re-inspection units include time for research, scheduling, onsite inspection, & reporting. Assume total of 2.5 hours per inspection on average.

3 Assume 90 initial C.4 inspections yearly. Assume 12% need 2nd inspection. Assume 5% need 3rd inspection.

4 Assume 12 initial C.3 inspections yearly. Assume 50% need 2nd inspection. Assume 12% need 3rd inspection.

5 Assume 10 spill responses yearly. Assume 4 hours per inspection per site, 1.5 hours follow up per site, & 60 miles roundtrip. The Weekend/After-Hours Spill Response rate includes 1.5xhourly rate for inspection & assumes follow up after inspection occurs during normal working hours.

6 Assume QA/QC required for each inspection/spill response report. Assume 0.25 hours per report.

7 Assume project support active for 6-7 months of the year. Assume 2 hours per month of PM time will be required during these active months.

8 Assume up to 3 meetings with the City yearly (kickoff meeting, meeting to discuss database, & meeting 60 days prior to end of contract term).

9 T&M and Unit Rates are an average rate for the 3-year duration. If performance period extends beyond 3 years, rates will be subject to increase.

Certificate Of Completion

Envelope Id: 9A88350828E449EDA88D3373245BFD7D
Subject: Please DocuSign: C22053 Surf to Snow.pdf
Source Envelope:
Document Pages: 15
Certificate Pages: 5
AutoNav: Enabled
EnvelopeId Stamping: Enabled
Time Zone: (UTC-08:00) Pacific Time (US & Canada)

Signatures: 4
Initials: 0

Status: Completed

Envelope Originator:
Kathy Slafter
37101 Newark Boulevard
Newark, CA 94560
kathy.slafter@newark.org
IP Address: 206.128.122.185

Record Tracking

Status: Original
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Holder: Kathy Slafter
kathy.slafter@newark.org

Location: DocuSign

Signer Events	Signature	Timestamp
Elizabeth Frantz elizabeth.frantz@s2serm.com Security Level: Email, Account Authentication (None)	DocuSigned by: Elizabeth Frantz 85DAC22861C54EC...	Sent: 7/29/2022 1:57:14 PM Viewed: 7/29/2022 1:58:32 PM Signed: 7/29/2022 1:58:57 PM
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Electronic Record and Signature Disclosure: Accepted: 7/29/2022 1:58:32 PM ID: 01d16e72-04a1-4a58-ad4b-11ba5921f084		
Kristopher Kokotaylo kkokotaylo@meyersnave.com Security Level: Email, Account Authentication (None)	DocuSigned by: kristopher kokotaylo ABFC8AFEC9714E4...	Sent: 7/29/2022 1:58:59 PM Viewed: 7/29/2022 2:12:44 PM Signed: 7/29/2022 2:13:25 PM
	Signature Adoption: Pre-selected Style Using IP Address: 206.169.145.130	
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Lenka Hovorka lenka.hovorka@newark.org Security Level: Email, Account Authentication (None)	DocuSigned by: Lenka Hovorka 5DAB8ABE4F2D491...	Sent: 7/29/2022 2:13:27 PM Viewed: 7/29/2022 4:17:07 PM Signed: 7/29/2022 4:18:14 PM
	Signature Adoption: Pre-selected Style Using IP Address: 206.128.122.185	
Electronic Record and Signature Disclosure: Accepted: 7/29/2022 4:17:07 PM ID: 5eae3712-9d34-41ec-8815-7468acf0dece		
Sheila Harrington sheila.harrington@newark.org City Clerk City of Newark Security Level: Email, Account Authentication (None)	DocuSigned by: Sheila Harrington AD90989DBABE45E...	Sent: 7/29/2022 4:18:16 PM Viewed: 8/1/2022 7:38:35 AM Signed: 8/1/2022 7:40:21 AM
	Signature Adoption: Pre-selected Style Using IP Address: 206.128.122.185	
Electronic Record and Signature Disclosure: Not Offered via DocuSign		

In Person Signer Events	Signature	Timestamp
Editor Delivery Events	**Status**	**Timestamp**
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Intermediary Delivery Events	**Status**	**Timestamp**
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James Scanlin james.scanlin@newark.org Security Level: Email, Account Authentication (None) **Electronic Record and Signature Disclosure:** Not Offered via DocuSign	COPIED	Sent: 8/1/2022 7:40:23 AM Viewed: 8/1/2022 7:58:40 AM
Witness Events	**Signature**	**Timestamp**
Notary Events	**Signature**	**Timestamp**
Envelope Summary Events	**Status**	**Timestamps**
Envelope Sent	Hashed/Encrypted	7/29/2022 1:57:14 PM
Certified Delivered	Security Checked	8/1/2022 7:38:35 AM
Signing Complete	Security Checked	8/1/2022 7:40:21 AM
Completed	Security Checked	8/1/2022 7:40:23 AM
Payment Events	**Status**	**Timestamps**
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If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

Consequences of changing your mind

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. Further, you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

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Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

How to contact City of Newark:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:
To contact us by email send messages to: sheila.harrington@newark.org

To advise City of Newark of your new email address

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at sheila.harrington@newark.org and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

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To request paper copies from City of Newark

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to sheila.harrington@newark.org and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

To withdraw your consent with City of Newark

To inform us that you no longer wish to receive future notices and disclosures in electronic format you may:

i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;

ii. send us an email to sheila.harrington@newark.org and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

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Acknowledging your access and consent to receive and sign documents electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

By selecting the check-box next to 'I agree to use electronic records and signatures', you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify City of Newark as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by City of Newark during the course of your relationship with City of Newark.

RESOLUTION NO. 11,393

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF NEWARK AUTHORIZING THE CITY MANAGER TO ENTER INTO A CONTRACTUAL SERVICES AGREEMENT WITH SURF TO SNOW ENVIRONMENTAL RESOURCE MANAGEMENT, INC., FOR MUNICIPAL STORMWATER INSPECTION SERVICES

WHEREAS, the State of California has issued to the City of Newark Waste Discharge Requirements and a National Pollutant Discharge Elimination System (NPDES) Permit (No. CAS612008) for the discharge of stormwater runoff from the municipal separate stormwater system; and

WHEREAS, the City is required by the terms of the Permit to conduct inspections of stormwater treatment systems and industrial and commercial facilities to ensure that the systems are operating properly and that the facilities are implementing appropriate best management practices; and

WHEREAS, the City issued Requests for Proposals ("RFP") for Municipal Stormwater Inspection Services; and

WHEREAS, a total of three responses to the RFP were received and based on staff's evaluation, Surf to Snow Environmental Resource Management, Inc., and Wood Environment & Infrastructure Solutions, Inc. were determined to be the most qualified firms and provided the two highest ranking proposals; and

WHEREAS, both firms have demonstrated the ability to successfully fulfill the City's needs;

WHEREAS, an agreement with Wood Environment & Infrastructure Solutions, Inc. in an amount not to exceed $40,000.00 and in a form approved by the City Attorney will be approved at staff level.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Newark hereby authorizes the City Manager to execute an agreement with Surf to Snow Environmental Resource Management, Inc. (S2S Agreement) in an amount not to exceed $55,120.00 in a form approved by the City Attorney; and

BE IT FURTHER RESOLVED that the City Manager is authorized to take all actions necessary to effectuate the intent of this Resolution.

I HEREBY CERTIFY the foregoing resolution was introduced at a regular meeting of the City Council of the City of Newark held on July 28, 2022, by Council Member Freitas who moved its adoption and passage, which motion was carried after being duly seconded, and passed by the following vote:

AYES:	Council Members Bucci, Freitas, Vice Mayor Hannon
NOES:	None
ABSENT:	Council Member Collazo, Mayor Nagy
SECONDED:	Council Member Bucci

APPROVED:

s/MICHAEL K. HANNON
Vice Mayor

ATTEST:

s/SHEILA HARRINGTON
City Clerk

APPROVED AS TO FORM:

s/KRISTOPHER J. KOKOTAYLO
City Attorney

STAFF REPORT

Item D. 4.

DATE	09/14/2023
TO	Honorable Mayor and City Council Members
FROM	Alex Tat, Senior Civil Engineer
SUBJECT	Adopt a resolution accepting completion of Smith Avenue Sinkhole Repairs, Project No. 1358, by Mountain Cascade, Inc., terminating emergency contracting actions pursuant to Public Contract Code Section 22050 and amending the 2022-2024 Biennial Budget for Fiscal Year 2024; exempt from CEQA review per CEQA Guidelines Section 15301

SUMMARY AND RECOMMENDATION

Following the July 27, 2023 City Council emergency declaration in response to roadway and storm drain damage on Smith Avenue fronting Birch Grove Primary Elementary School, the City contracted with Mountain Cascade, Inc. to perform the emergency repairs. Mountain Cascade, Inc. has completed the work in conformance with the specifications of the contract at a total cost not to exceed $95,000.

Staff recommends that the City Council accept completion of Smith Avenue Sinkhole Repairs, Project No. 1358, by Mountain Cascade, Inc., authorize an amendment of the 2022-2024 Biennial Budget for Fiscal Year 2024 to allocate an additional $15,000 of unallocated Capital Improvement Fund Reserves to the project to cover anticipated construction cost increases and terminate emergency contracting actions pursuant to Public Contract Code Section 22050.

BACKGROUND

The formation of a roadway sinkhole on Smith Avenue directly fronting Birch Grove Primary Elementary School created the need for emergency roadway and storm drain repairs.

The City of Newark's Purchasing Ordinance and the California Public Contract Code require repair of public improvements of this magnitude to follow a competitive formal bid process unless there is an emergency. Following the formal bidding process would have resulted in significant delays for the work required to repair the storm drain main and roadway, causing health and safety concerns. Therefore, at the July 27, 2023 City Council meeting, the City Council made a finding and adopted Resolution No. 11,553, declaring that an emergency existed as a result of the damage to the storm drain and roadway on Smith Avenue fronting Birch Grove Primary Elementary School and that the public interest and necessity demanded the immediate expenditure of public money to safeguard life, health or property, and authorized the City Manager to sign documents necessary for the repair without competitive bidding. In addition, the City Council approved the allocation of $80,000 of Capital Improvement Fund Reserves to

Smith Avenue Sinkhole Repairs, Project No. 1358.

Per Section 22050 of the California Public Contract Code, if the Council adopts a resolution finding that an emergency exists, staff is required to provide a report to the City Council at each subsequent regularly scheduled meeting thereafter on the status of the actions related to the emergency expenditure until Council declares an end to the emergency.

DISCUSSION/ANALYSIS

The City contacted a total of six contractors to provide quotes and their upcoming availability to perform the emergency repair work - Ranger Pipelines, Sanco, Moreno Brothers, Rosas Brothers Construction, GradeTech, Inc., and Mountain Cascade, Inc. The City contracted with Mountain Cascade, Inc. because they were the only qualified contractor immediately available to provide the emergency roadway and storm drain repairs.

The repair work consisted of excavating below the roadway surface, sealing the damaged storm drain joint, pouring a concrete field collar around the joint, backfilling the excavated area with slurry and aggregate base, reconstructing damaged concrete curb and gutter, and restoring the asphalt concrete pavement. Despite staff's desire and attempts to complete the work earlier, the roadway and storm drain repairs unfortunately occurred after the start of Newark Unified District's 2023-24 school year; however, due in most part to close coordination between Public Works Engineering and Maintenance staff, Police, the contractor, and Birch Grove Primary Elementary School administration, disruptions to morning drop-off and afternoon pick-up operations were kept to a minimum.

Mountain Cascade, Inc. has completed the work in conformance with the specifications of the contract. Staff is currently working with the contractor to finalize costs associated with the disposal of excavated material; however, based on preliminary estimates, staff does not anticipate the final cost of the project to exceed $95,000.

Staff recommends that the City Council accept completion of Smith Avenue Sinkhole Repairs, Project No. 1358, by Mountain Cascade, Inc., authorize an amendment of the 2022-2024 Biennial Budget for Fiscal Year 2024 to allocate an additional $15,000 of unallocated Capital Improvement Funds to the project to cover anticipated construction cost increases and terminate emergency contracting actions pursuant to Public Contract Code Section 22050.

FISCAL IMPACT

Staff recommends amending the 2022-2024 Biennial Budget and Capital Improvement Fund for Fiscal Year 2024 to allocate an additional $15,000 of Capital Improvement Fund Reserves to the Smith Avenue Sinkhole Repairs, Project No. 1358, thereby increasing the total project budget from $80,000 to $95,000, to cover anticipated construction cost increases.

ENVIRONMENTAL/PLANNING COMMISSION REVIEW

The repair and maintenance of existing facilities is categorically exempt under the California Environmental Quality Act (CEQA) section 15301 (Existing Facilities).

REVIEW AND APPROVAL

Prepared by - Alex Tat, Senior Civil Engineer
Reviewed by - Jayson Imai, City Engineer
Reviewed by - Soren Fajeau, Public Works Director
Reviewed by - Krysten Lee, Finance Director
Reviewed by - Kristopher J. Kokotaylo, City Attorney
Approved by - David J. Benoun, City Manager

Attachments

Resolution Ending Emergency

RESOLUTION NO.

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF NEWARK ACCEPTING COMPLETION OF SMITH AVENUE SINKHOLE REPAIRS, PROJECT NO. 1358, BY MOUNTAIN CASCADE, INC., TERMINATING EMERGENCY CONTRACTING ACTIONS PURSUANT TO PUBLIC CONTRACT CODE SECTION 22050 AND APPROVING AN AMENDMENT OF THE 2022-2024 BIENNIAL BUDGET FOR FISCAL YEAR 2023-2024

WHEREAS, Public Contract Code Section 22050 allows public agencies to repair or replace a public facility without competitive bidding, provided that the legislative body makes a finding and adopts a resolution by a four-fifths vote that an emergency exists and that the emergency will not permit a delay resulting from a competitive solicitation for bids and that the action is necessary to respond to the emergency; and

WHEREAS, Public Contract Code Section 22050 also requires local agency governing bodies to terminate emergency contracting actions at the earliest possible date that conditions warrant so that regular noticed bidding can resume; and

WHEREAS, damage to the storm drain main along Smith Avenue eroded the surrounding roadway subgrade, causing a sinkhole to form directly adjacent to Birch Grove Primary Elementary School, requiring immediate repair to address health and public safety concerns; and

WHEREAS, the public interest and necessity demanded the immediate expenditure of public money to safeguard life, health and property; and

WHEREAS, on July 27, 2023, the City Council adopted Resolution No. 11,553 declaring that an emergency existed because of the damage to the storm drain and roadway on Smith Avenue fronting Birch Grove Primary Elementary School and that the public interest and necessity demanded the immediate expenditure of public money to safeguard life, health, or property, and authorized the City Manage to execute all documents and take all actions necessary for the repair without competitive bidding; and

WHEREAS, Resolution No. 11,553 approved an amendment of the 2022-2024 Biennial Budget and Capital Improvement Plan to allocate $80,000 of Capital Improvement Funds to the Smith Avenue Sinkhole Repairs project account for Project No. 1358; and

WHEREAS, the City entered into a contract with Mountain Cascade, Inc. to provide the necessary emergency roadway and storm drain repairs on a time and materials fee basis; and

WHEREAS, on August 21, 2023, Mountain Cascade, Inc. completed the work in conformance with the specifications of the contract at a total cost not to exceed $95,000; and

WHEREAS, said work has been completed to the satisfaction of the City Engineer.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Newark hereby finds that the above recitals are true and accurate and hereby incorporated by reference.

BE IT FURTHER RESOLVED that the City Council of the City of Newark does hereby accept the improvements for Smith Avenue Sinkhole Repairs, Project 1358. in a final contract amount not to exceed $95,000.

BE IT FURTHER RESOLVED that the City Council of the City of Newark does hereby authorize the release of bonds guaranteeing completion of the work.

BE IT FURTHER RESOLVED that the City Council of the City of Newark does hereby authorize the filing of a Notice of Completion with the Office of the County Recorder of Alameda County, California.

BE IT FURTHER RESOLVED that the City Council of the City of Newark does hereby authorize the City to issue payment including the release of a final retention payment to Mountain Cascade, Inc. for the completion of Smith Avenue Sinkhole Repairs, Project 1358, pursuant to the contract.

BE IT FURTHER RESOLVED pursuant to Public Contract Code Section 22050 that the emergency contracting actions related to the Smith Avenue sinkhole as identified in Resolution No. 11,553 are hereby terminated.

BE IT FURTHER RESOLVED that the City Council hereby approves an amendment of the 2022-2024 Biennial Budget and Capital Improvement Plan to allocate an additional $15,000 of Capital Improvement Funds to project account 1358 as follows:

	Account	Description	Amount
TO:	610.90.094.940.6221.CIP1358	Smith Avenue Sink Hole Repairs	$15,000
FR:	610.3000	Unappropriated Fund Balance	$15,000

STAFF REPORT

Item D. 5.

DATE	09/14/2023
TO	Honorable Mayor and City Council Members
FROM	Cathreene Ingham-Watters, Human Resources Director
SUBJECT	Adopt a resolution approving side letter agreements to the Memorandum of Understanding with the Newark Association of Miscellaneous Employees (NAME) and to the Memorandum of Understanding with the Newark Police Association (NPA) to provide that NPA serve as the sole and exclusive bargaining representative for the Vehicle Abatement Officer classification.

SUMMARY AND RECOMMENDATION

The classification of Vehicle Abatement Officer is currently represented by the Newark Association of Miscellaneous Employees (NAME). However, the Vehicle Abatement Officer is assigned to the Newark Police Department; as such, following staff engaging in meet and confer with NAME and the Newark Police Association (NPA), staff recommends that the NPA be the sole representative for the Vehicle Abatement Officer classification.

Staff recommends that the City Council adopt a resolution approving side letters between the City and NAME and between the City and NPA to provide that the job classification of Vehicle Abatement Officer will no longer be represented by NAME and will instead be represented by the NPA.

BACKGROUND

The Vehicle Abatement Officer is assigned to the Newark Police Department. In that role, the Vehicle Abatement Officer reports to individuals within the police department and is responsible for duties as assigned within the department. Currently, there are no employee classifications within NAME except for the Vehicle Abatement Officer that are assigned to the police department. As such, the Vehicle Abatement Officer classification should logically be represented by NPA along with other employee classifications that are assigned to the police department.

DISCUSSION/ANALYSIS

The City and NAME have met and conferred regarding the removal of the Vehicle Abatement Officer classification as solely represented by NAME. NAME has agreed to a side letter removing the Vehicle Abatement Officer classification as a represented classification (Exhibit A).

Additionally, the City and NPA have met and conferred regarding the representation of

the Vehicle Abatement Officer classification and the NPA has agreed via a side letter to accept representation of the classification (Exhibit B).

Upon Council approval, the side letters will take effect and the Vehicle Abatement Officer classification will no longer be represented by NAME and will be represented by NPA. The change in representation will have no impact on salary but will allow the Vehicle Abatement Officer to receive an initial appointment uniform allowance and monthly uniform allowance.

FISCAL IMPACT

Although there is no fiscal impact to the salary schedule for the Vehicle Abatement Officer classification from NAME to NPA, there is an additional fiscal impact of an initial appointment uniform allowance and monthly uniform allowance of $100.

REVIEW AND APPROVAL

Prepared by - Cathreene Ingham-Watters, Human Resources Director
Reviewed by- Krysten Lee, Finance Director
Reviewed by - Kristopher J. Kokotaylo, City Attorney
Approved by - David J. Benoun, City Manager

Attachments

Exhibit A

Exhibit B

Resolution

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City of Newark

City Manager's Office
37101 Newark Boulevard
Newark, CA 94560

To: Newark Association of Miscellaneous Employees Executive Board

From: David Benoun, City Manager
Lenka Hovorka, Assistant City Manager

Date: August 28, 2023

This will serve as a side letter to the City of Newark (City) and the Newark Association of Miscellaneous Employees (NAME) July 1, 2022 – June 30, 2025 Memorandum of Understanding (MOU). The purpose of this side letter is to address representation of the classification of Vehicle Abatement Officer.

The City and Association have met and conferred and agreed to the following amendments below to provide that NAME will no longer be the sole and exclusive bargaining representative for the Vehicle Abatement Officer classification. This side letter will become effective upon approval by the City Council.

The City and NAME agree to the following amendments to the MOU:

1. Remove "Vehicle Abatement Officer" from Attachment A, the list of "Regular Full-Time/ Part-Time Classifications".
2. Remove the following row from the table in Attachment B, "Salary List":

	Step Code	***FY 2023***	***FY 2024***	***FY 2025***
Vehicle Abatement Officer	1	$32.08	$32.01	$32.97
	2	$32.62	$33.60	$34.61
	3	$34.26	$35.29	$36.35
	4	$35.96	$37.04	$38.15
	5	$37.77	$38.90	$40.07

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Dated: _____

For the City of Newark:

_____

David Benoun, City Manager

For the Newark Association of Miscellaneous Employees:

DocuSigned by:
Jackson Posadas
9766623AEF8C494...

Jackson Posadas, President

DocuSign Envelope ID: AFD37C4C-C888-4E74-91A0-EB92EEA82452

City of Newark

City Manager's Office
37101 Newark Boulevard
Newark, CA 94560

To: Newark Police Association Executive Board

From: David Benoun, City Manager
Lenka Hovorka, Assistant City Manager

Date: August 28, 2023

This will serve as a side letter to the City of Newark (City) and the Newark Police Association (NPA) July 1, 2019 - June 30, 2022 Memorandum of Understanding (MOU), revised July 28, 2022 to extend the MOU term through June 30, 2025. The purpose of this side letter is to address representation of the classification of Vehicle Abatement Officer.

The City and Association have met and conferred and agreed to the following amendments below to provide that NPA serve as the sole and exclusive bargaining representative for the Vehicle Abatement Officer classification. This side letter will become effective upon approval by the City Council.

The City and NPA agree to the following amendments to the MOU:

1. Add "Vehicle Abatement Officer" to Section III. DEFINTIONS, Subsection G

2. Repeal and replace Section VII. UNIFORM ALLOWANCE, Subsection A in its entirety as follows:

A. <u>Police Officer, Police Sergeant, Community Service Officer, Animal Control Officer, and Vehicle Abatement Officer</u>

1. Upon appointment to the classification of Police Officer, Community Service Officer, Animal Control Officer, or Vehicle Abatement Officer a full-time regular employee shall be reimbursed by the City for the purchase of City-approved uniform and equipment up to an amount equal to the maximum of the annual uniform allowance in effect on the date of appointment to Police Officer, Community Service Officer, Animal Control Officer, or Vehicle Abatement Officer. Reimbursement shall be made upon receipt of evidence of purchase.

2. Upon completion of 12 months of continuous active employment or upon reinstatement, Police Officers and Police Sergeants shall receive a monthly uniform allowance of $100.

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3. Upon completion of 12 months of continuous active employment or upon reinstatement, Community Service Officers Animal Control Officers, and Vehicle Abatement Officers shall receive a monthly uniform allowance of $100.

4. If the employment of a Police Officer, Community Service Officer, Animal Control Officer, or Vehicle Abatement Officer is terminated before completion of the probationary period or 18 months of service, whichever is longer, uniforms and equipment purchased by the City through reimbursement pursuant to Provision VII.A.3. above shall be returned to the City.

3. Add "Vehicle Abatement Officer" to the positions listed in Section XII. HOLIDAYS, Subsection B.

4. Repeal and replace Section XXVII. WORK SCHEDULES, Subsection B in its entirety as follows:

B. Animal Control Officer, Community Service Officer, and Vehicle Abatement Officer

1. Animal Control Officers, Community Service Officers, and Vehicle Abatement Officers will normally be assigned to a Four-Ten Work schedule. The Police Chief may authorize a different work schedule if such change is needed to achieve management objectives.

2. During any permitted meal periods, Animal Control Officers, Community Service Officers, and Vehicle Abatement Officers assigned to Patrol Division will be on an on-duty status and shall be available to respond to requests for police services.

5. Add "Vehicle Abatement Officer" to Attachment A, the list of "Regular Full-Time/Part Time Classifications".

6. Add the following row to the table in Attachment A.3

VEHICLE ABATEMENT OFFICER	$5548.40	$5824.00	$6101.33	$6420.27	$6742.67
	$32.01	$33.60	$35.20	$37.04	$38.90

7. Add the following row to the table in Attachment A.4

VEHICLE ABATEMENT OFFICER	$5714.80	$5999.07	$6300.67	$6612.67	$6945.47
	$32.97	$34.61	$36.35	$38.15	$40.07

Dated: _____

For the City of Newark:

_____
David J. Benoun, City Manager

For the Newark Police Association Employees:

DocuSigned by:
Steven Losier
C6AC5DDB06C14F4...

_____
Steven Losier, President

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RESOLUTION NO.

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF NEWARK APPROVING SIDE LETTER AGREEMENTS WITH NEWARK ASSOCIATION OF MISCELLANEOUS EMPLOYEES AND NEWARK POLICE ASSOCIATION REGARDING THE REPRESENTATION OF THE VEHICLE ABATEMENT OFFICER CLASSIFICATION.

WHEREAS, the City of Newark maintains the job classification of Vehicle Abatement Officer; and

WHEREAS, the Newark Association of Miscellaneous Employees ("NAME") serves as the sole an exclusive representative for the Vehicle Abatement Officer classification; and

WHEREAS, the Vehicle Abatement Officer classification is the only classification represented by NAME that is assigned to the Newark Police Department; and

WHEREAS, the City and NAME have met and conferred regarding the removal the Vehicle Abatement Officer classification and NAME no longer serving as the sole and exclusive bargaining representative; and

WHEREAS, the City and the Newark Police Association ("NPA") have met and conferred regarding the representation of the Vehicle Abatement Office classification and NPA has agreed to serve as the sole and exclusive bargaining representative.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Newark hereby approves and authorizes the City Manager to execute the Side Letter Agreement between the City of Newark and the Newark Association of Miscellaneous Employees, as attached in Exhibit A, and the Side Letter Agreement between the City of Newark and the Newark Police Association as it relates to the classification of the Vehicle Abatement Officer, as attached in Exhibit B.

STAFF REPORT

Item E. 1.

DATE	09/14/2023
TO	Honorable Mayor and City Council Members
FROM	Carmelisa Lopez, Senior Planner
SUBJECT	Public Hearing to consider approval of a Resolution finding the project exempt from further environmental review pursuant to CEQA and approving a Design Review, Minor Use Permit, and Vesting Tentative Map for a 76-unit residential development located at 38600 Cedar Boulevard (APNs 92A-2585-12-1, 92A-2585-31).

SUMMARY AND RECOMMENDATION

Waymark Development (the "Applicant") submitted an application for a 76-unit townhouse development and associated improvements on a 3.72-acre site located at 38600 Cedar Boulevard (the "Project site") (the "Project").

The Project site is zoned RM Residential Medium Density with a General Plan designation of Medium Density Residential. The site currently contains existing commercial buildings and site improvements and is surrounded by commercial, industrial, and residential uses. The site consists of two parcels and portions of excess City right-of-way and a street remnant of Timber Street (formerly Cedar Road) located between the two parcels and Interstate 880 (I-880) (see Attachment 1). Pursuant to a Purchase Sale Agreement (PSA) between the City and property owner, Cedar Boulevard Townhomes, LLC, executed in February 2023, the purchase of the City property must be completed within 120 days after the City Council's approval of the Project.

The Project includes 14 residential buildings with five to six townhouses each (see Attachment 2, Exhibit C). The townhouses will have three floor plan options ranging from 1,334 to 1,823 square feet (sq. ft.) in habitable area and include 3 to 4 bedrooms, 2.5 to 3 bathrooms, decks and patios, and a two-car garage. The Project includes several onsite improvements such as private roads and alleys, interconnected paths and sidewalks, 22,803 sq. ft. of open space, landscaping throughout the site and along Cedar Boulevard, and 190 parking spaces (152 residential parking spaces and 38 guest parking spaces). The Project also includes several off-site improvements such as widening of Cedar Boulevard along the site frontage to accommodate two travel lanes, a bike lane and bike buffer, parkway strip and a meandering sidewalk and new and extended landscape medians on Cedar Boulevard.

The proposed townhouse development is permitted in the RM zoning district. The proposed density of 20 units per net acre complies with the required density for both the RM zoning district and General Plan designation. As proposed and conditioned, the

Project also complies with all applicable zoning regulations and is consistent with all applicable General Plan policies.

The Project requires Design Review for the design of the site, buildings, and associated improvements and a Vesting Tentative Map to merge the Project site consisting of two parcels and former City property into one common lot and 76 condominium units. The Project also requires a Minor Use Permit to allow a building height over 35 feet and a sound wall height over six feet. The proposed buildings are up to 37 feet in height due to the proposed roof styles which are necessary to achieve the proposed architectural design and screen roof-mounted equipment. The proposed sound wall is 18 feet tall along the rear property line and will step down from a height of 18 to 10 feet from the rear to the front of the site along the side property lines. The proposed wall height is required to reduce exterior noise levels within the Project site down to 65 decibels to comply with General Plan Policy EH-7.4.

Staff recommends that the City Council adopt a Resolution finding the project exempt from further environmental review pursuant to CEQA and approving DR2022-011 and MUP2022-026, a Design Review, Minor Use Permit, and Vesting Tentative Map for a 76-unit residential development located at 38600 Cedar Boulevard (APNs 92A-2585-12-1, 92A-2585-31), based on the recommended findings and subject to the recommended conditions of approval.

BACKGROUND

The Project site is a rectangular-shaped site consisting of two parcels (APNs 92A-2585-12-1, 92A-2585-31). The site also includes portions of excess City right-of-way and a street remnant of Timber Street (formerly Cedar Road) located between the two parcels and I-880, totaling approximately 12,054 sq. ft. (see Attachment 1). On February 23, 2023, the City Council authorized the City Manager to execute a PSA with the property owner to complete the sale and conveyance of the City property, at fair market value, to be incorporated into the Project. The PSA requires that the purchase of the City property be completed within 120 days after the City Council's approval of the Project, or such earlier date as mutually agreed upon by the City and property owner.

The site is bounded by an Alameda County Flood Control & Water Conservation District (ACFCWCD) flood control channel to the northwest, I-880 to the northeast, a motel (E-Z 8 Motel) to the southeast, and Cedar Boulevard to the southwest. The site is surrounded by commercial, industrial, and residential uses. A residential development proposed by Robson Homes northwest of the flood control channel was recently approved by the City Council in May 2023.

The site is zoned RM Residential Medium Density with a General Plan designation of Medium Density Residential. The zoning for this site and properties north of Cedar Boulevard were rezoned to RM in the mid-2010's to facilitate the conversion of the uses on these properties to residential. Since the zoning amendment was adopted, various medium-density residential projects have been approved and constructed northwest of the Project site.

Project Proposal

The Applicant proposes to merge the two parcels and former City property to create one 3.72-acre common lot and 76 condominium units (see Attachment 2, Exhibit C). The proposed lot will include various easements for utilities and access and an 8-foot-wide right-of-way dedication for Cedar Boulevard. The Project includes private and public open space areas with various recreational amenities, 190 parking spaces for residents and guests, and several off-site improvements.

A total of 76 alley-loaded townhouses are proposed within 14 residential buildings containing five to six townhouses each. The proposed density is 20 units per net acre. The habitable floor area of each residence ranges from 1,334 to 1,823 sq. ft and will include private open space areas and two-car garages. The features of the proposed residences are provided in Table 1 below.

Table 1. Proposed Residences	
Floor Plans	3
Number of Floors	3
Building Height	36' to 37'
Habitable Floor Area	1,334 to 1,823 sq. ft.
Bedrooms	3 to 4
Bathrooms	2.5 to 3
Private Open Space	Decks and porches
Parking Spaces	2 within garage

Building Design

The proposed architectural style is a blend of Spanish and Mediterranean styles, creating a cohesive design that is both functional and complementary to the surrounding neighborhoods. The proposed floor plans and elevations provide a variety of massing, wall breaks, colors, and materials. The front entrances to the residences along the Project frontage also face Cedar Boulevard.

The building materials proposed include stucco, brick, and concrete “S” tiles for the roof. The buildings will be painted earth-toned colors and the tile roofs and various architectural features such as decorative entries, garage doors, and building-mounted exterior lighting will have complimentary finishes in dark brown, green, and blue colors. “Enhanced” elevations with varying materials, colors, and decorative elements are also proposed on the elevations facing Cedar Boulevard, the main entrance to the neighborhood, and I-880.

Open Space and Landscaping

The Project includes a total of 22,803 sq. ft. of open space area. The residences include a total of 5,995 sq. ft. of private open space consisting of second floor balconies. Some residences also have ground floor patios. The 16,808 sq. ft. of common open space is mostly located along the rear property line and include various recreational amenities such as a flexible green space and a dog play area (see Attachment 2, Exhibit C). Five smaller open space areas are located throughout the site and include a play area, flexible green space, courtyards with seating, and boardwalks over bioretention areas.

Landscaping is proposed throughout the site along the site perimeter, pedestrian walkways and sidewalks, and in the open space areas. The landscaping includes a diverse palette of trees, shrubs, and ground cover. Turf cell paving and decorative removable bollards are proposed at the emergency vehicle access (EVA) proposed at the southeast corner of the site adjacent to Cedar Boulevard. The streetscape along Cedar Boulevard includes street trees and a meandering sidewalk that will connect to the sidewalk that will be installed as part of the residential development recently entitled northwest of the site. The Project is also conditioned to include enhanced landscaping along the Project frontage that will require review and approval by the Community Development Director prior to the submittal of the improvement plans.

Fences and Walls

The Project includes an 18-foot-tall precast concrete sound wall with a stucco finish and plant pockets for vines. The sound wall will be constructed along the rear property line and wrap around the side property lines, stepping down from a height of 18 to 10 feet from the rear to the front of the site. The wall will assist with reducing highway noise levels for the Project as will be discussed later in the report. Fences and walls are also proposed throughout the development including stucco walls with brick caps for some patio areas and to screen alleys from the public right-of-way, wood rail fences in the open space area at the rear of the site, black metal railings for balconies, and a black metal fence to enclose the dog play area.

Parking

Multi-unit buildings are required to provide two parking spaces for a unit with two or more bedrooms and 0.5 guest parking spaces per unit pursuant to Newark Municipal Code (NMC) Section 17.23.040. Therefore, the Project requires a total of 190 parking spaces: 152 parking spaces for residents and 38 parking spaces for guests. Additionally, a maximum of 25 percent (48 parking spaces) may be compact parking spaces pursuant to NMC Section 17.23.090.D.2.

With a total of 190 parking spaces proposed, the Project complies with the parking requirement. Each townhouse will include a two-car parking garage for a total of 152 residential parking spaces. A total of 38 guest parking spaces is proposed throughout the site as head-in and parallel parking spaces on the private roads and within the parking areas along the eastern property line and near the main entrance to the site. Seven of the guest parking spaces will be compact parking spaces.

Short-term and long-term bicycle parking are also required for the Project. Pursuant to NMC Section 17.23.070, the Project is required to provide at least 10 short-term bicycle spaces and 16 long-term bicycle spaces. The Project includes a long-term bicycle storage area within each garage and five bicycle racks (each with a two-bicycle capacity). Three bicycle racks are proposed next to the play area and two bicycle racks are proposed next to the dog play area, both at the rear of the site.

Access and Circulation

The Project site will be accessed via a two-way driveway from the signalized intersection at Cedar Boulevard and Moores Avenue. A private road leading from the Cedar Boulevard and Moores Avenue intersection will serve as the central spine and alleyways will branch out to provide direct access to the two-car garages on the ground level of each townhouse. An EVA is proposed at the southeast corner of the site adjacent to Cedar Boulevard which will only be accessible to emergency vehicles. Removable bollards will block access to this EVA when not in use.

Pedestrian circulation throughout the site will be provided via sidewalks and interconnected walkways. “Enhanced” walkways are proposed for walkways crossing roads and parking areas for the safety of pedestrians.

Utilities & Off-Site Improvements

The Project will include the off-site improvements below. The proposed improvements are illustrated on the Tract 8665 Vesting Tentative Map plans included as pages 19 to 26 in Attachment 2, Exhibit C of this report.

1. Widening of Cedar Boulevard on its northeast side along the site frontage that will accommodate two travel lanes, a bike lane and bike buffer, a parkway strip behind the curb, and a meandering sidewalk;
2. Extension of the existing Cedar Boulevard landscape median island toward the north to create a dedicated left turn pocket at the Cedar Boulevard and Moores Avenue intersection;
3. Utility relocation, including streetlights, fire hydrants, water meters, joint trench boxes as well as the existing storm drainage inlet behind the curb line located at the Project’s entrance;
4. Relocation of the existing traffic signal heads and pole in the southeast quadrant of the Cedar Boulevard and Moores Avenue intersection behind the new curb line;
5. New directional curb ramps at the Project entrance and new crosswalks on the eastern and northern legs of the Cedar Boulevard and Moores Avenue intersection;
6. Crosswalk restriping on the southern leg of the intersection to match the new directional curb ramp locations and pedestrian push button location and in the northeastern half of Cedar Boulevard to match the proposed lane widths;
7. Installation of a new Cedar Boulevard landscape median north of Moores Avenue intersection to create a dedicated left turn pocket into the Project’s entrance. The landscape median will connect to the new landscape median that will be constructed with the adjacent residential development that was recently entitled;

and

8. A traffic signal and crosswalk improvements at the Cedar Blvd and Smith Ave intersection. The adjacent residential development recently entitled is similarly conditioned to provide the traffic signal improvements at Cedar Boulevard and Smith Avenue. The Project includes a condition of approval that states that if, at the time of final map approval, the Applicant of the adjacent residential development has already provided guarantee(s) or other appropriate improvement security for the traffic signal, the Project will not be required to install the traffic signal (see Attachment 2, Exhibit B).

DISCUSSION/ANALYSIS

General Plan/Zoning Conformity

The Medium Density Residential General Plan designation is intended for garden apartments and condominiums, townhomes, row houses, four-plexes to eight-plexes, and older areas that contain a mix of multi-family and single-family homes within this range. These areas tend to be multi-family in character but retain some of the characteristics of suburban neighborhoods. Densities in areas within this designation range from 14 to 30 units per net acre. This designation is implemented through RM Residential Medium Density zoning district.

Pursuant to NMC Section 17.07.020, multi-unit development is permitted in the RM zoning district. The Project is a townhouse development with a proposed density of 20 units per net acre, where a minimum density of 14 to 30 units per acre is required. Therefore, the proposed use is permitted and complies with the required density of both the RM zoning district and Medium Density Residential designation of the General Plan.

As proposed and conditioned, the Project complies with all applicable zoning regulations such as building height, parking, and open space. The Project is also consistent with all applicable General Plan policies such as Policy LU-1.10 (Vacant and Underutilized Sites) which encourages the development of Newark's remaining underutilized sites for their highest and best use and Policy LU-2.2 (Context-Sensitive Design) which requires that new structures are aesthetically compatible with existing structures and the surrounding context and contribute positively to the visual quality of neighborhoods. The Project's consistency with applicable General Plan policies is further discussed in Attachment 2, Exhibit A of this report.

Requested Entitlements

Design Review

Pursuant to NMC Section 17.34.020, design review is required for all projects that require a permit for new construction, reconstruction, rehabilitation, alteration, or other improvements to the exterior of a structure, site, or a parking area. Design review ensures that new development supports the goals and objectives of the General Plan and other adopted plans and guidelines.

The proposed architectural style is a blend of Spanish and Mediterranean styles, creating a cohesive design that is both functional and complementary to the surrounding neighborhoods. The proposed building designs are well articulated and feature a variety of colors, materials, and decorative elements to create interesting facades and an attractive neighborhood and streetscape. The front entrances to the residences along the Project frontage are also oriented toward Cedar Boulevard. Further, “enhanced” elevations with varying materials, colors, and decorative elements are proposed on the elevations facing Cedar Boulevard, the main entrance to the neighborhood, and I-880. The proposed landscaping and open space areas complement the buildings and will enhance the overall appearance of the site.

When conducting design review, projects shall be evaluated to ensure that they satisfy the criteria in NMC Section 17.34.060 to the extent that they apply. Based on staff’s analysis, the required findings can be made in the affirmative and are provided in Attachment 2, Exhibit A of this report.

Minor Use Permit for Building Height and Sound Wall Height

The Applicant requests approval of a Minor Use Permit (MUP) to allow a maximum building height of 37 feet. Pursuant to NMC Section 17.07.030, the maximum building height within the RM zoning district is 75 feet, but building heights over 35 feet require an MUP. The proposed buildings are over 35 feet in height due to the proposed roof styles, a combination of parapet flat roofs and low-pitched roofs (4:12 to 5:12) with concrete “S” tiles. Pitched tile roofs are common in Spanish and Mediterranean architectural styles and are necessary to achieve the proposed architectural design. The parapet flat roofs are also necessary to screen roof-mounted equipment.

Pursuant to NMC Section 17.17.040, fences, walls, hedges, and related structures are limited to a maximum of six feet when located outside of the front yard or four feet of a street side lot line. A wall height greater than six feet may be approved with an MUP. The Applicant requests approval of an MUP to construct an 18-foot-tall sound wall along the rear property line that will wrap around the side property lines, stepping down from a height of 18 to 10 feet from the rear to the front of the site to comply with General Plan Policy EH-7.4. This policy requires the noise levels in residential areas to be limited to 60 decibels (dB), or to the greatest extent feasible when levels are exceeded due to freeways and other noise-reduction measures. The environmental noise assessment prepared for the Project (see Attachment 2, Exhibit D, Appendix E-2) recommended an 18-foot-tall sound wall along I-880 to reduce exterior noise levels down to 65 dB. The sound wall is proposed as recommended in the assessment.

Based on staff’s analysis, the criteria for approval of an MUP for a proposed wall height over six feet and building height greater than 35 feet can be made in the affirmative and are provided in Attachment 2, Exhibit A of this report.

Vesting Tentative Map

The Applicant has submitted Vesting Tentative Tract Map 8665 which proposes to

merge the 3.72-acre site consisting of two parcels and former City property into one common lot and 76 condominium units (see Attachment 2, Exhibit C). The proposed lot will include easements for emergency vehicle access, public access, public utilities, sanitary sewer, and water lines. An 8-foot-wide right-of-way dedication for Cedar Boulevard is also proposed at the front of the site. Pursuant to California Government Code Section 66474, a legislative body of a city or county shall deny approval of a tentative map if it makes any of the findings in this code section.

The proposed vesting tentative map is consistent with the General Plan in that the property is developed by street and parcel improvements in conformance with applicable goals and policies. The proposed vesting tentative map will meet the density requirement of the RM zoning district and land use designation. As proposed and conditioned, the vesting tentative map also complies with all applicable zoning regulations and is consistent with all applicable General Plan policies. The site is physically suitable for the development type and proposed density of development. Further, the Project was reviewed pursuant to the California Environmental Quality Act, as will be discussed in the next section, and determined that it is eligible for a CEQA exemption and therefore exempt from further environmental review.

Based on staff's analysis and as discussed, the findings provided in Attachment 2, Exhibit A support the approval of Vesting Tentative Tract Map 8665.

Community Meeting

The Applicant held a community meeting on April 17, 2023 at 6:00 pm at Pape Machinery located on the Project site. Notices were sent to property owners within 500 feet of the site inviting them to attend the meeting. The notice also included the Applicant's contact information in the event a property owner could not attend and wanted to set up a separate time to meet and discuss the Project. There was a total of three members of the public at the meeting. During the meeting, the Applicant presented the Project and answered questions about the proposed development. One member of the public was generally supportive of the Project. The other two members of the public reviewed the presentation materials but did not provide any verbal comments. No written comments were received.

Required Noticing

Pursuant to NMC Sections 17.31.060 and 17.35.050, on August 29, 2023, the City published a public hearing notice in The Tri City Voice and mailed a public hearing notice to all property owners within a minimum 500-foot radius of the site. All neighborhood and community organizations that filed a written request for notice of projects in the area where the site is located and all persons and groups who filed a written request for notice regarding the specific application also received a notice.

FISCAL IMPACT

As described in NMC Chapter 3.24, the City has established fees that are imposed upon projects for the purpose of mitigating the impacts that the projects have upon the City's ability to provide public facilities. Based on the Fiscal Year 2023-2024 fee schedule, the Project would be subject to the following impact fees:

- **Park Impact**: $22,414.32/unit
- **Public Safety**: $4,298/unit
- **Community Service/Facilities**: $2,877.89/unit
- **Transportation**: $3,219.93/townhome unit. Since the proposed traffic signal is identified as a priority improvement by the City, the Applicant will receive a Transportation Impact Fee credit for the total cost of the traffic signal improvements not to exceed $500,000 (see Condition of Approval nn.4 in Attachment 1, Exhibit C). If the applicant of the adjacent residential development (Robson Homes) has already provided guarantee(s) or other appropriate improvement security for the proposed traffic signal, the Applicant will not be required to install the traffic signal and therefore will not receive a Transportation Impact Fee credit.
- **Housing Impact**: $24.95/sq. ft. for the first 1,000 sq. ft. and $10.00/sq. ft. above 1,000 sq. ft.
- **Art in Public Places**: $270/unit
- **Community Development Maintenance Fee**: 0.5% of construction value

The Applicant will be responsible for remitting the respective impact fees in effect at the time, prior to the issuance of any building permits for the Project. The collection of the impact fees is also included in the conditions of approval for the Project (see Attachment 2, Exhibit B).

ENVIRONMENTAL/PLANNING COMMISSION REVIEW

California Environmental Quality Act

Staff retained the consultant services of M-Group to determine if the Project is eligible for an exemption under the California Environmental Quality Act (CEQA). The CEQA analysis prepared by M-Group, dated July 2023, in accordance with the CEQA Guidelines evaluates the environmental impacts from the Project, included as Attachment 2, Exhibit D of this report. The CEQA analysis demonstrated that the Project is eligible for the following CEQA exemptions:

- **Consistency with Program EIR** – Pursuant to CEQA Guidelines Section 15168 and California Public Resources Code Section 21083.3, the Final Environmental Impact Report (FEIR) for the 2013 General Plan provides for streamlining and/or tiering provisions. The CEQA analysis demonstrated that the Project will not result in substantial changes or involve new information that would warrant preparation of a subsequent EIR because the level of development proposed is within the development assumptions analyzed in the FEIR. No further environmental review is required.
- **Community Plan Exemption** – Pursuant to CEQA Guidelines Section 15183 and California Public Resources Code Section 21083.3, the Project is eligible for streamlined environmental review. The Project is consistent with the General Plan and will not result in significant environmental impacts that were not previously

identified as significant project-level, cumulative or off-site effects in the FEIR. The Project is exempt from further environmental review because it is consistent with the General Plan.

As discussed in the analysis, the Project is required to comply with applicable mitigation measures identified in the FEIR and conditions of approval (see Attachment 2, Exhibit C) and is subject to uniformly applied development standards. With the implementation of the required mitigation measures and conditions of approval, the Project will not result in a substantial increase in the severity or significant impacts that were previously identified in the FEIR, nor will the Project introduce any new significant impacts that were not previously identified. Therefore, there will be no additional environmental impacts beyond those analyzed in the FEIR.

Planning Commission

The Planning Commission considered the Project at a regular public hearing held on July 25, 2023. Two members of the public were in attendance. Staff and the Applicant presented and answered questions from the Planning Commission and the member of the public who provided comments.

The comments from the member of the public included questions about the property, rezoning history of properties along this section of Cedar Boulevard to RM Residential Medium Density, Newark's housing requirements, traffic, and maintenance of the proposed sound wall along I-880. Comments also included concerns regarding the amount of new development in Newark and its impact on traffic and pedestrian safety. The Planning Commission and staff provided information on the rezoning history of Cedar Boulevard, the Regional Housing Needs Allocation (RHNA) and the Housing Element process, the traffic and signal warrant studies prepared for the Project, and the Applicant’s responsibility to maintain the proposed sound wall and contact Caltrans regarding their requirements. The Applicant also provided details on when they started pursuing the purchase of the Project site to when they submitted the entitlement application to the City.

After consideration of staff and the Applicant’s presentations, public comments, and discussions, the Planning Commission voted 5-0 to recommend City Council approval of the Project.

REVIEW AND APPROVAL

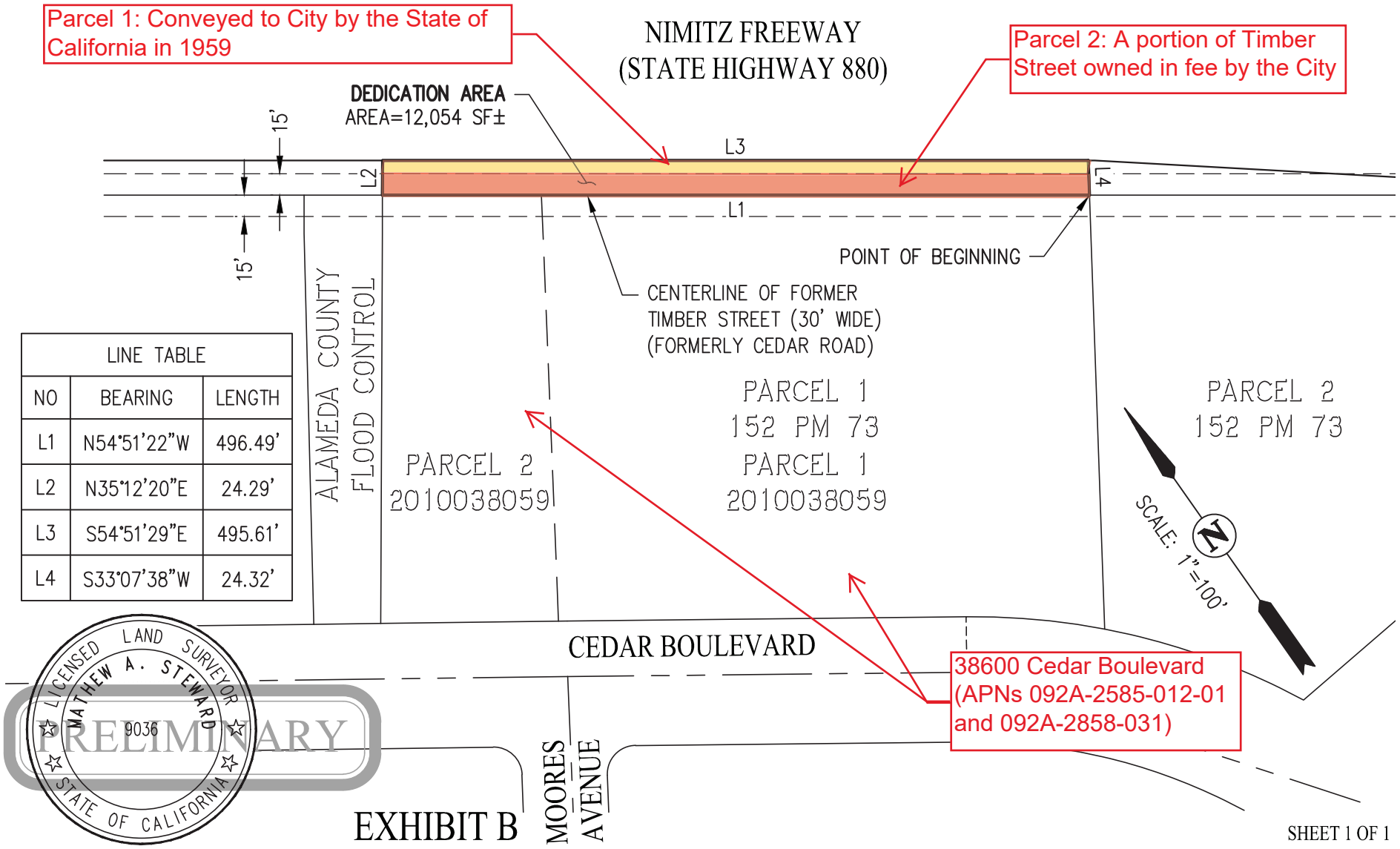
Prepared by - Carmelisa Lopez, Senior Planner
Reviewed by - Steven Turner, Community Development Director
Reviewed by - Krysten Lee, Finance Director
Reviewed by - Kristopher J. Kokotaylo, City Attorney
Approved by - David J. Benoun, City Manager

Attachments

Attachment 1 - Plat Map of Project Site and City Property

Resolution for Approval
Exhibit A - Findings of Fact
Exhibit B - Conditions of Approval
Exhibit C - Project Plans
Exhibit D - CEQA Analysis
Staff Presentation
Applicant Presentation

ATTACHMENT 1



LINE TABLE		
NO	BEARING	LENGTH
L1	N54°51'22"W	496.49'
L2	N35°12'20"E	24.29'
L3	S54°51'29"E	495.61'
L4	S33°07'38"W	24.32'

EXHIBIT B

SHEET 1 OF 1

PLAT TO ACCOMPANY LEGAL DESCRIPTION

LANDS OF THE CITY OF NEWARK
DEDICATION AREA
ALAMEDA COUNTY, CALIFORNIA

MAY 18, 2022

cbg
SAN RAMON (925) 866-0322
ROSEVILLE (916)788-4456
WWW.CBANDG.COM
CIVIL ENGINEERS ▪ SURVEYORS ▪ PLANNERS

RESOLUTION NO. ____

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF NEWARK FINDING THE PROJECT EXEMPT FROM FURTHER ENVIRONMENTAL REVIEW PURSUANT TO CEQA AND APPROVING DR2022-011 AND MUP2022-026, A DESIGN REVIEW, MINOR USE PERMIT, AND VESTING TENTATIVE MAP FOR A 76-UNIT RESIDENTIAL DEVELOPMENT LOCATED AT 38600 CEDAR BOULEVARD (APNS 92A-2585-12-1, 92A-2585-31)

WHEREAS, Waymark Development LLC (the "Applicant"), has filed with the City of Newark an application for a Design Review, Minor Use Permit, and Vesting Tentative Map to construct a 76-unit townhouse development on a 3.72-acre site located at 38600 Cedar Boulevard (APNs 92A-2585-12-1, 92A-2585-31) (the "Property") (the "Project" as illustrated in **Exhibit C**); and

WHEREAS, the Applicant proposes to demolish the commercial buildings and site improvements; and

WHEREAS, the Property includes portions of excess City right-of-way and a street remnant of Timber Street (formerly Cedar Road) (the "City Property") located between the two parcels and Interstate 880 ("I-880"), totaling approximately 12,054 square feet. On February 23, 2023, the City Council authorized the City Manager to execute a Purchase Sale Agreement (the "PSA") with the property owner to complete the sale and conveyance of the City property, at fair market value, to be incorporated into the Project. The PSA requires that the purchase of the City property be completed within 120 days after the City Council's approval of the Project, or such earlier date as mutually agreed upon by the City and property owner; and

WHEREAS, the Applicant seeks Design Review approval, which pursuant to Newark Municipal Code ("NMC") Section 17.34.020 is required for all projects that require a permit for new construction, reconstruction, rehabilitation, alteration, or other improvements to the exterior of a structure, site, or a parking area; and

WHEREAS, the Applicant seeks a Minor Use Permit ("MUP") for a proposed sound wall of up to 18 feet tall along the rear property line that will wrap around the side property lines, stepping down from a height of 18 to 10 feet from the rear to the front of the property, which pursuant to NMC Section 17.17.040, requires an MUP to allow a wall height greater than six feet; and

WHEREAS, the Applicant seeks an MUP for a proposed building height of 37 feet, which pursuant to NMC Section 17.07.030, requires an MUP for building heights over 35 feet in the Residential Medium Density zoning district; and

WHEREAS, the Applicant seeks approval of Vesting Tentative Tract Map 8665 pursuant to California Government Code Section 66474 to allow for the construction of the Project. Vesting

Tentative Tract Map 8665 includes the merger of the two existing parcels and City property (approximately 12,054 square feet) into one 3.72-acre common lot and 75 condominium units. Vesting Tentative Tract Map 8665 includes easements for emergency vehicle access, public access, public utilities, sanitary sewer, and water lines and an 8-foot-wide right-of-way dedication for Cedar Boulevard at the front of the Project site; and

WHEREAS, a CEQA analysis was prepared as set forth in **Exhibit D** to evaluate the environmental impacts of the Project in accordance with the California Environmental Quality Act (the "CEQA") Guidelines. With implementation of the applicable mitigation measures identified in the Final Environmental Impact Report (the "FEIR") for the 2013 General Plan and conditions of approval as set forth in **Exhibit B**, the CEQA analysis determined and demonstrated that the Project is exempt from further environmental review pursuant to CEQA Guidelines Sections 15168 and 15183 and California Public Resources Code Section 21083.3 because the level of development proposed is within the development assumptions analyzed in the FEIR and the Project is consistent with the General Plan; and

WHEREAS, the Planning Commission held a duly noticed public hearing on July 25, 2023, and after fully considering the Project, entitlements, staff report, findings of fact, conditions of approval, public comments, and all other testimony and evidence presented at the public hearing, recommended City Council approval of the Project; and

WHEREAS, pursuant to NMC Sections 17.31.060 and 17.35.050, a public hearing notice was published in The Tri-City Voice on August 29, 2023 and mailed as required for a public hearing before the City Council at, or after, 7:00 p.m. on September 14, 2023; and

WHEREAS, the City Council held a duly noticed public hearing on September 14, 2023, and after fully considering the Project, entitlements, staff report, findings of fact, conditions of approval, public comments, and all other testimony and evidence presented at the public hearing; and

WHEREAS, the City Council finds that the staff report, exemptions from CEQA, and standards for approval reflect the City's independent judgement and analysis of the Project; and

WHEREAS, the City Council finds that the Project conforms with the City's General Plan and Zoning Code for which are incorporated herein by reference and are available for review at City Hall during normal business hours and on the City's website; and

WHEREAS, the City Council finds that the Project satisfies the requisite findings of fact necessary for approval as further explained in the staff report and the findings of fact associated with this Resolution, as identified in **Exhibit A**.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Newark as follows:

Section 1. That the forgoing recitals are true and correct and made part of this Resolution.

Section 2. That the Project is exempt from further environmental review pursuant to CEQA Guidelines Sections 15168 and 15183 and California Public Resources Code Section 21083.3

because the level of development proposed is within the development assumptions analyzed in the FEIR and the Project is consistent with the General Plan.

Section 2. That the City Council hereby makes the necessary findings and determinations required by the NMC to approve a Design Review, Minor Use Permit, and Vesting Tentative Map for the Project, as further explained in the staff report and findings of fact for approval as set forth in **Exhibit A** attached hereto and incorporated herein by this reference.

Section 3. Based on the findings and determinations, the City Council hereby approves DR2022-011 and MUP2022-026 for a Design Review, Minor Use Permit, and Vesting Tentative Map for a 76-unit townhouse development on a 3.72-acre site located at 38600 Cedar Boulevard (APNs 92A-2585-12-1, 92A-2585-31), subject to the Conditions of Approval, as further set forth in **Exhibit B** attached hereto and incorporated herein by this reference.

This Resolution was introduced at the City of Newark City Council's September 14, 2023 regular meeting by Council Member _____, seconded by Council Member _____, and passed as follows:

Attachments

Exhibit A – Findings of Fact

Exhibit B – Conditions of Approval

Exhibit C – Project Plans

Exhibit D – CEQA Analysis

Exhibit A

FINDINGS OF FACT

DR2022-011 and MUP2022-026
38600 Cedar Boulevard
Alameda County Assessor's Parcel Numbers APNs 92A-2585-12-1, 92A-2585-31

Design Review (NMC Section 17.34.060)

When conducting design review, the project shall be evaluated to ensure it satisfies the criteria below to the extent applicable.

A. *The overall design of the project including its scale, massing, site plan, exterior design, and landscaping will enhance the appearance and features of the project site and surrounding natural and built environment.*

The proposed architectural design is a blend of Spanish and Mediterranean styles, creating a cohesive design that is both functional and complementary to the surrounding neighborhoods. The proposed building designs are well articulated and feature a variety of colors, materials, and decorative elements to create interesting facades that will enhance the neighborhood and streetscape. The front entrances to the residences along the Project frontage are also oriented toward Cedar Boulevard. Further, "enhanced" elevations with varying materials, colors, and decorative elements are proposed on the elevations facing Cedar Boulevard, the main entrance to the neighborhood, and I-880.

The proposed landscaping and open space areas complement the buildings and enhance the Project site and the surrounding natural and built environment. The common open space areas include various amenities such as flexible green space, a dog play area, courtyards with seating, and boardwalks over bioretention areas. The landscaping for the Project features a diverse palette of trees, shrubs, and ground cover. Planting pockets with accent plantings are proposed along the sidewalks and walkways within the site. Turf cell paving and decorative removable bollards are proposed at the emergency vehicle access (EVA) at the southeast corner of the site adjacent to Cedar Boulevard. The streetscape along Cedar Boulevard includes street trees and a meandering sidewalk that will connect to the sidewalk that will be installed as part of the residential development proposed by Robson Homes recently entitled northwest of the Project site. The Project has also been conditioned to include enhanced landscaping along the Project frontage that will require review and approval by the Community Development Director prior to the submittal of the improvement plans.

This finding can be made in the affirmative.

B. *The project design is appropriate to the function of the project and will provide an attractive and comfortable environment for occupants, visitors, and the general community.*

The proposed homes are three stories with habitable floor areas ranging from 1,334 to

1,823 square feet (sq. ft.). The proposed floor plans and elevations provide a variety of massing, wall breaks, colors, and materials. A large open space area is proposed at the rear of the Project site and includes various recreational amenities such as a flexible green space and a dog play area. Smaller pockets of open space areas are also proposed throughout the site and include various amenities such as a play area, flexible green space and courtyards with seating, and boardwalks over bioretention areas. All open space areas will be available for the enjoyment of the future residents and guests.

The Project also includes sidewalks and interconnected walkways as well as "enhanced" walkways for road crossings to facilitate internal pedestrian circulation and connections to open space areas and streets. Further, the proposed streetscape along Cedar Boulevard will enhance Cedar Boulevard with new street trees and a meandering sidewalk that would connect to the sidewalk that will be installed as part of the residential development recently entitled northwest of the Project site. The landscaping proposed along the Project frontage will also require review and approval by the Community Development Director prior to the submittal of the improvement plans to ensure the installed enhances the streetscape and improves the overall site and neighborhood. This finding can be made in the affirmative.

C. Project details, materials, signage and landscaping, are internally consistent, fully integrated with one another, and used in a manner that is visually consistent with the proposed architectural design.

The proposed buildings include attractive and high-quality colors and materials such as stucco, brick and an earth-toned color palette. The proposed landscaping includes a diverse palette of trees, shrubs, and ground cover that complement the building and site design and are fully integrated with the overall design of the Project. This finding can be made in the affirmative.

D. The design of streetscapes, including street trees, lighting, and pedestrian furniture, is consistent with the intended character of the area.

The zoning for this site and properties north of Cedar Boulevard were rezoned to Residential Medium Density in the mid-2010's to facilitate the conversion of the uses on these properties to residential. Since the zoning amendment was adopted, medium-density residential development has been approved and constructed northwest of the Project site along Cedar Boulevard such as a residential development known as Cedar Townhomes on Cedar Boulevard and Robertson Avenue. A residential development proposed by Robson Homes was also recently approved by the City Council in May 2023. Further, an existing single-family residential neighborhood is located across the Project site on the other side of Cedar Boulevard. With the exception of a few properties with existing commercial, school, and church uses, the Project site is generally surrounded by residential uses.

The proposed streetscape design is consistent with the intended character of the area. As mentioned previously, the proposed streetscape along Cedar Boulevard includes street trees and a meandering sidewalk that will connect to the residential development recently entitled northwest of the Project site. The Project also includes offsite improvements that will enhance and be compatible with the character of the area such as the widening of Cedar

Boulevard on the northeast side along the Project site frontage to accommodate travel lanes, a bike lane and bike buffer, and a parkway strip, traffic signal and crosswalk improvements at the Cedar Boulevard and Smith Avenue intersection, and traffic median improvements in front of the Project site on Cedar Boulevard. These streetscape improvements will adhere to the City's streetscape standards. This finding can be made in the affirmative.

E. Parking areas are designed and developed to buffer surrounding land uses; compliment pedestrian-oriented development; enhance the environmental quality of the site, including minimizing stormwater run-off and the heat-island effect; and achieve a safe, efficient, and harmonious development.

The City's off-street parking requirement is satisfied by the provision of 152 residential parking spaces (a two-car garage for each unit) and 38 guest parking spaces throughout the site including head-in and parallel parking spaces on the private roads and within the parking areas onsite. The parking spaces will be accessed via a driveway on Cedar Boulevard and the private streets and alleys throughout the Project site. Pedestrian circulation is achieved via sidewalks and interconnected pathways throughout the Project site. "Enhanced" walkways are proposed for walkways crossing roads and parking areas for the safety of pedestrians.

Landscaping along the site perimeter and throughout the site and planting pockets along the sidewalks and walkways within the site will screen the parking areas from Cedar Boulevard and help reduce the heat island effect and stormwater run-off. Low stucco walls with brick caps are also proposed at various locations along the Project frontage to screen the alleys from Cedar Boulevard. Further, bioretention areas will also be installed within open space areas and along the Project frontage to minimize stormwater run-off.

This finding can be made in the affirmative.

F. Lighting and lighting fixtures are designed to complement buildings, be of appropriate scale, provide adequate light over walkways and parking areas to create a sense of pedestrian safety, and avoid creating glare.

The Project includes exterior wall-mounted lighting on the ground level of the proposed residences, pole-mounted lighting along Cedar Boulevard and throughout the site, and bollard lighting along the walkways. To ensure pedestrian safety, the proposed lighting will provide adequate light at building entrances, garages, walkways, and parking areas. The Project is conditioned to require all exterior lighting to not create glare off-site and comply with all applicable regulations in NMC Section 17.17.060. This finding can be made in the affirmative.

G. Landscaping is designed to be compatible with and enhance the architectural character and features of the buildings on site, and help relate the building to the surrounding landscape.

The Project includes landscaping around the site boundaries, open space areas, parking areas, and along the sidewalks and walkways throughout the site. The proposed landscaping will enhance the pedestrian experience as they travel throughout the site as well as

pedestrians walking on the sidewalks along the Project frontage. The diverse landscaping palette is compatible with the proposed architectural design, allowing them to relate to the surrounding landscape. The Project is required to conform to all state and local landscaping regulations and water conservation standards. This finding can be made in the affirmative.

Minor Use Permit for Building Height (NMC Section 17.35.060)

The decision-maker must make all of the following findings in order to approve or conditionally approve a use permit application:

A. The proposed use is allowed within the applicable zoning district and complies with all other applicable provisions of this title and all other titles of the Municipal Code.

The proposed townhouse development with a proposed density of 20 units per net acre is allowed pursuant to NMC Section 17.07.020. As proposed and conditioned, the Project complies with all applicable zoning regulations such as building height, parking, and open space. This finding can be made in the affirmative.

B. The proposed use is consistent with the general plan and any applicable specific plan.

The Project has a Medium Density Residential General Plan designation which is intended for garden apartments and condominiums, townhomes, row houses, four- to eight-plexes, and older areas that contain a mix of multi-family and single-family homes within this range. These areas tend to be multi-family in character but retain some of the characteristics of suburban neighborhoods. Densities in areas within this designation range from 14 to 30 units per net acre. The Applicant is proposing a townhouse development with a density of 20 units per net acre, which is consistent with the General Plan designation.

The Project is consistent with many of Newark's General Plan goals, policies, and actions including, but not limited to:

- **Policy LU-1.10 Vacant and Underutilized Sites** – Encourage the development of Newark's remaining vacant and underutilized sites for their highest and best use, consistent with the designations shown on the General Plan Diagram. Future growth in the city should generally be directed to the areas identified in this General Plan. The Project proposes the envisioned land use and density for the Medium Density Residential General Plan land use designation, the land use designation for this property.

- **Policy LU-2.2 Context-Sensitive Design** – Require that new structures, additions, and major renovations are aesthetically compatible with existing structures and the surrounding context, and contribute positively to the visual quality of neighborhoods. The Project is designed to be both functional and complementary to the surrounding neighborhoods to ensure aesthetic compatibility with existing structures and the surrounding area.

- **Policy LU-4.12 Fences and Gates** – Ensure that fences, gates, railings, walls, and other site elements intended to provide safety, security, and privacy are designed to be

compatible with each other, with adjacent structures, and with the neighborhood context. Fence, wall, or hedge designs which obscure lines of sight for motorists, or create potential conflicts between pedestrians and cars, should be avoided. The proposed fences, walls, and other site elements are designed to complement the building and site design and blend harmoniously with the neighborhood context.

- **Policy T-2.2 Pedestrian Facilities** – Work to close gaps in the pedestrian network and improve sidewalk connectivity between residential and commercial areas. Develop curbs, gutters, sidewalks on all remaining Newark streets not yet fully improved to encourage safe, convenient pedestrian travel. The proposed vesting tentative map includes an eight-foot-wide public-right-of-way dedication for street and utility improvements and streetscape enhancements. The Project also includes a meandering sidewalk along the Project frontage that would connect to the sidewalk that will be installed as part of the residential development recently entitled northwest of the Project site.

- **Action T-5.A Traffic Study Requirements** – Require traffic studies for major new developments to determine projected impacts on the transportation system, and the measures required to maintain adopted levels of service (LOS). The Traffic Impact Assessment prepared for the Project (see appendices in **Exhibit D**) concluded that traffic generated by the Project will not cause an increase in vehicle miles traveled that will exceed applicable thresholds and will have less than adverse impacts on al the intersections studied. A traffic signal warrant assessment (see appendices in **Exhibit D**) was also prepared and concluded a traffic signal should be installed at the intersection of Cedar Boulevard and Smith Avenue. The Applicant has discussed these improvements with the City and included them as part of the Project.

- **Action EH-4.J Phase I Assessments** – Require a Phase I Environmental Site Assessment (ESA) when a property is changed from an existing use to a more sensitive use (for example, industrial to residential). If potential hazardous materials issues are identified, ensure they are investigated and that sites are cleaned to regulatory agency standards prior to development. A Phase I ESA was prepared for the Project (see the appendices in **Exhibit D**) was used for the environmental analysis (see **Exhibit D**) for the Project. As conditioned, the Project will be cleaned to regulatory agency standards as required by the applicable regulatory agencies.

- **Policy EH-7.4 Residential Noise Standard** – Exterior – Plan for and implement strategies to maintain exterior noise levels that are consistent with the noise compatibility guidelines in Table EH-2. For residential areas, this limit is 60 dBA Ldn for outdoor living areas. Where this level is exceeded due to freeways, arterials, and/or railroads, the construction of berms, walls, buffer zones, and other noise-reduction measures to reduce noise to the greatest extent feasible will be required. The proposed 18-foot-tall sound wall along the rear property line that will wrap around the side property lines will reduce exterior noise levels up to 65 dB, which is the extent feasible due to the adjacent freeway.

- **2015 Housing Element Update Housing Priority #2** – Assist in the development of

housing opportunities and accessibility for all economic levels in the City. The Project will create 76 market-rate residential units. The Applicant will also pay the Affordable Housing Impact Fee for the Project at building permit issuance which will go into the Housing Impact Fee that will be used to fund the City's affordable housing initiatives and programs.

Based on this analysis, this finding can be made in the affirmative.

C. The proposed use will not be adverse to the public health, safety, or general welfare of the community, nor detrimental to surrounding properties or improvements.

The Project includes demolition of the existing buildings and site improvements onsite and construction of 76 townhouses within 14 buildings and associated improvements. The Project has been designed to be both functional and complementary to the surrounding neighborhoods and includes a diverse landscape palette that complements the building and site design. The Project will be accessed via a two-way driveway at the Cedar Boulevard and Moores Avenue intersection and an Emergency Vehicle Access Point (EVA) proposed at the southeast corner of the site adjacent to Cedar Boulevard. Clearly marked walkways and vehicular driveways and aisles are also proposed throughout the site to ensure pedestrians and vehicles can travel throughout the site in a safe and efficient manner. The construction of the buildings and site improvements will require compliance with all applicable local and state regulations such as the California Building Code and Fire Code.

The Applicant requests approval of a Minor Use Permit (MUP) to allow a maximum building height of 37 feet. Pursuant to NMC Section 17.07.030, the maximum building height within the RM zoning district is 75 feet, but building heights over 35 feet require an MUP. The proposed buildings are over 35 feet in height due to the proposed roof styles, a combination of parapet flat roofs and low-pitched roofs (4:12 to 5:12) with concrete "S" tiles. Pitched tile roofs are common in Spanish and Mediterranean architectural styles and are necessary to achieve the proposed architectural design. The parapet flat roofs are also necessary to screen roof-mounted equipment.

The Project provides a new housing opportunity in Newark and enhances the site's overall appearance and the surrounding neighborhood. The Applicant is also required to pay development impact fees such as the Housing Impact Fee and Community Service/Facilities fees to help pay for the costs of providing public services to the new development and specifically for the Housing Impact Fee, help fund the City's affordable housing initiatives and programs.

Therefore, the use will not be adverse to the public health, safety, or general welfare of the community nor detrimental to surrounding properties or improvements. This finding can be made in the affirmative.

D. Tax revenue generated by the development will exceed the city's cost of the service demand as a result of the development or a compelling community benefit will be provided.

The Project will redevelop a commercial site with a residential use which will increase the City's property tax base by increasing the property's value. This finding can be made in the affirmative.

E. The proposed use complies with any design or development standards applicable to the zoning district or the use in question unless waived or modified pursuant to the provisions of this title.

As discussed previously and illustrated in the Project plans (see **Exhibit C**), the Project complies with all applicable design and development standards in the Zoning Code. This finding can be made in the affirmative.

F. The design, location, size, and operating characteristics of the proposed activity are compatible with the existing and reasonably foreseeable future land uses in the vicinity.

The Project site is in the RM Residential Medium Density zoning district which allows multi-unit development such as townhouses. The proposed density of 20 units per net acre also complies with the required density of 14 to 30 units per net acre in this zoning district. The site is surrounded by commercial, industrial, and residential uses. Several residential uses are located within the Project vicinity such as the single-family residential neighborhood located on the southwest side of Cedar Boulevard, a residential development recently entitled with a similar housing type (three-story, alley-loaded single-family residences and two-unit townhouses) that will be located northwest of the ACFCWCD flood control channel, and existing residential uses with similar housing types along Cedar Boulevard to the northwest and southeast known as Cedar Townhomes and the Prima Subdivision, respectively. Therefore, the design, location, size, and operating characteristics of the proposed Project are compatible with the existing and foreseeable future land uses in the vicinity. This finding can be made in the affirmative.

G. The site is physically suitable for the type, density, and intensity of use being proposed, including access, utilities, and the absence of physical constraints.

The Project site complies with all applicable standards for development within the RM Residential Medium Density zoning district. A multi-unit development is permitted by right. Staff reviewed the Project including the use change from commercial to residential and the project components such as site design, access and circulation, and utilities. Staff also reviewed the proposed entitlement requests. Based on staff's analysis as detailed in the staff report and this exhibit, the site is physically suitable for the type, density, and intensity of use being proposed. This finding can be made in the affirmative.

Minor Use Permit for Additional Wall Height (NMC Sections 17.17.040 and 17.35.060)

Fences, walls, hedges, and related structures are limited to a maximum of six feet when located outside of the front yard or four feet of a street side lot line. Pursuant to NMC Section 17.17.040, a wall height greater than six feet may be approved with a Minor Use Permit if in compliance with the following:

A. The additional fence height will not impair the provision of adequate light, air, circulation, and visual openness around adjacent residential structures.

The Project includes an 18-foot-tall precast concrete sound wall along the rear property line that wraps around the side property lines, stepping down from a height of 18 to 10 feet from the rear to the front of the Project site. The proposed sound wall is required to comply with General Plan Policy EH-7.4 which requires the noise levels in residential areas to be limited to 60 decibels (dB), or to the greatest extent feasible when levels are exceeded due to freeways and other noise-reduction measures. The environmental noise assessment prepared for the Project (see **Exhibit D**) recommended an 18-foot-tall sound wall along I-880 to reduce exterior noise levels up to 65 dB. The sound wall is proposed as recommended in the assessment. While the additional height may block natural light, the proposed wall will reduce noise from and screen the adjacent highway (I-880), which will benefit future residents. Based on this analysis, this finding can be made in the affirmative.

B. The additional fence height will not detract from the overall appearance of the neighborhood.

The 18-foot-tall section of the sound wall is proposed at the rear of the property and will abut I-880 and match the existing walls along the I-880 corridor. The height of the proposed sound wall steps down along the side property lines from the rear to the front of the Project site to a height typical for side yards on residential properties. The proposed streetscape along Cedar Boulevard includes new street trees and a meandering sidewalk. The additional height for the proposed sound wall will not detract from the overall appearance of the neighborhood. This finding can be made in the affirmative.

C. The additional fence height is not detrimental to the health, safety, and welfare of people living in the neighborhood.

The additional height for the proposed wall will be a sound barrier for the residents living in the neighborhood, reducing exterior noise levels to the extent feasible. The additional height will not be detrimental to the health, safety, and welfare of people living in the neighborhood. This finding can be made in the affirmative.

Pursuant to NMC Section 17.35.060, the decision-maker must make all of the following findings in order to approve or conditionally approve a use permit application:

A. The proposed use is allowed within the applicable zoning district and complies with all other applicable provisions of this title and all other titles of the Municipal Code.

The proposed density of 20 units per net acre is permitted pursuant to NMC Section 17.07.020. As proposed and conditioned, the Project complies with all applicable zoning regulations. This finding can be made in the affirmative.

B. The proposed use is consistent with the general plan and any applicable specific plan.

The Project has a Medium Density Residential General Plan designation and densities in areas within this designation range from 14 to 30 units per net acre. The Applicant is proposing a townhouse development a density of 20 units per net acre and therefore is consistent with the General Plan designation. As discussed previously, the Project is consistent with all applicable General Plan goals, policies, and actions.

C. The proposed use will not be adverse to the public health, safety, or general welfare of the community, nor detrimental to surrounding properties or improvements.

As discussed previously, the Project has been designed to be both functional and complementary to the surrounding neighborhoods, includes a diverse landscape palette that complements the building and site design, and will require compliance with all applicable local and state regulations such as the California Building Code and Fire Code. The Project will be accessed via a two-way driveway at the Cedar Boulevard and Moores Avenue intersection and an EVA proposed at the southeast corner of the site adjacent to Cedar Boulevard. Clearly marked walkways and vehicular driveways and aisles are also proposed throughout the site to ensure pedestrians and vehicles can travel throughout the site in a safe and efficient manner.

The Applicant requests approval of an MUP to construct an 18-foot-tall precast concrete sound wall along the rear property line that wraps around the side property lines, stepping down from a height of 18 to 10 feet from the rear to the front of the Project site. As discussed previously, the proposed sound wall is required to comply with General Plan Policy EH-7.4 and will reduce exterior noise levels up to 65 dB.

The Project will provide housing opportunities in Newark and enhance the overall appearance of the site and surrounding neighborhood. The Applicant is also required to pay development impact fees to help pay for the costs of providing public services to the new development.

Therefore, the use will not be adverse to the public health, safety, or general welfare of the community nor detrimental to surrounding properties or improvements. This finding can be made in the affirmative.

D. Tax revenue generated by the development will exceed the city's cost of the service demand as a result of the development or a compelling community benefit will be provided.

As discussed previously, the Project will redevelop a commercial site with a residential use. This change in use will increase the City’s property tax base by increasing the value of the property. This finding can be made in the affirmative.

E. The proposed use complies with any design or development standards applicable to the zoning district or the use in question unless waived or modified pursuant to the provisions of this title.

As discussed previously and illustrated in the Project plans (see **Exhibit C**), the Project complies with all applicable design and development standards in the Zoning Code. This finding can be made in the affirmative.

F. The design, location, size, and operating characteristics of the proposed activity are compatible with the existing and reasonably foreseeable future land uses in the vicinity.

The Project, multi-unit development with a density of 20 units per net acre, is permitted in the RM Residential Medium Density zoning district, the zoning district for the Project site. which allows multi-unit development such as townhouses. As discussed previously, several residential uses are located within the Project vicinity. A residential development recently entitled with a similar housing type will also be constructed northwest of the ACFCWCD flood control channel. Therefore, the design, location, size, and operating characteristics of the proposed Project are compatible with the existing and foreseeable future land uses in the vicinity. This finding can be made in the affirmative.

G. The site is physically suitable for the type, density, and intensity of use being proposed, including access, utilities, and the absence of physical constraints.

As discussed previously, the Project site complies with all applicable zoning standards and the proposed use, a multi-unit development, is permitted by right. Based on staff's analysis of the Project as detailed in the staff report and this exhibit, the site is physically suitable for the type, density, and intensity of use being proposed. This finding can be made in the affirmative.

Vesting Tentative Map (California Government Code Section 66474)

A legislative body of a city or county shall deny approval of a tentative map if it makes any of the following findings:

A. That the proposed map is not consistent with applicable general and specific plans as specified in Government Code Section 65451.

The General Plan includes numerous goals and policies pertaining to land use and design, growth management, circulation, community facilities and utilities, open space and conservation, health, safety, and noise. The proposed vesting tentative map is required to abide by all applicable goals and policies included in the adopted General Plan. Generally, the proposed vesting tentative map is consistent with the General Plan in that the property is developed by street and parcel improvements in conformance with applicable goals and policies. The Project is consistent with many of Newark's General Plan goals, policies, and actions as discussed in the Minor Use Permit section above. This finding can be made in the negative.

B. That the design or improvement of the proposed subdivision is not consistent with applicable general and specific plans.

The Project meets the density requirement of 14 to 30 units per net acre specified for the RM Residential Medium Density zoning district and the Medium Density Residential General Plan land use designation. The Project will be constructed per the approved plans and satisfy the conditions of approval included in this resolution (provided in **Exhibit B**). Further, the Project includes an eight-foot-wide street dedication which will contribute towards public improvements and help improve pedestrian connectivity on Cedar Boulevard. Therefore, the proposed vesting tentative map is consistent with the General Plan. This finding can be made in the negative.

C. That the site is not physically suitable for the type of development.

The Project site is a rectangular-shaped site consisting of two parcels. The site also includes portions of excess City right-of-way and a street remnant of Timber Street (formerly Cedar Road) located between the two parcels and Interstate 880 (I-880) that will be purchased by the property owner to be included with the Project site within 120 days of Project approval, or such earlier date as mutually agreed upon by the City and property owner. The site is bounded by a ACFCWCD flood control channel to the northwest, I-880 to the northeast, a motel (EZ 8 Motel) to the southeast, and Cedar Boulevard to the southwest. The site is surrounded by commercial, industrial, and residential uses. A residential development proposed by Robson Homes northwest of the flood control channel was recently approved by the City Council in May 2023. The site is generally flat and currently contains several commercial buildings and paved areas for circulation and parking. The site is surrounded by commercial, industrial, and residential uses. Based on the technical studies prepared for the Project (see the appendices attached to **Exhibit D**), the site is physically suitable for the proposed residential development and with the implementation of the conditions of approval in **Exhibit B**. This finding can be made in the negative.

D. That the site is not physically suitable for the proposed density of development.

The Project will meet the density requirement of 14 to 30 units per net acre specified for the RM Residential Medium Density zoning district and the Medium Density Residential General Plan land use designation. Therefore, this finding can be made in the negative.

E. That the design of the subdivision or the proposed improvements are likely to cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat.

Staff retained the consultant services of M-Group to determine if the Project is eligible for an exemption under the California Environmental Quality Act (CEQA). The CEQA analysis prepared by M-Group dated July 2023 in accordance with CEQA Guidelines evaluates the environmental impacts from the Project (see **Exhibit D**). The analysis demonstrated that the Project is exempt from further environmental review pursuant to CEQA Guidelines Sections 15168 and 15183 and California Public Resources Code Section 21083.3. With the implementation of the required mitigation measures and conditions of approval (see **Exhibit B**), the analysis demonstrated that the Project is consistent with the General Plan and will not result in significant environmental impacts that were not previously identified as significant project-level, cumulative or offsite effects

in the Final Environmental Impact Report (FEIR) for the 2013 General Plan. Therefore, as conditioned, the design of the proposed vesting tentative map and the proposed improvements are not likely to cause substantial environmental damage nor substantially injure fish or wildlife or their habitat. This finding can be made in the negative.

F. That the design of the subdivision or type of improvements is likely to cause serious public health problems.

The Alameda County Fire Department (ACFD), Building Inspection Division, Engineering Division, Planning Division, and Police Department have reviewed the proposed map. Outside agencies that may be affected by the proposed development have also reviewed the proposed map. The applicant has incorporated the recommendations from each department, division, and agency as part of the project design. The Project includes conditions of approval (see **Exhibit B**) that must be addressed at various stages of the Project. Therefore, the map is consistent with all applicable provisions of the City's Subdivision Ordinance, the Subdivision Map Act, the California Fire Code, the California Building Code, and the applicable development standards of the Zoning Code. This finding can be made in the negative.

G. That the design of the subdivision or the type of improvements will conflict with easements, acquired by the public at large, for access through or use of, property within the proposed subdivision.

As conditioned, the Project does not conflict with any easements or be in a public right-of-way. The proposed vesting tentative map includes easements for emergency vehicle access, public access, public utilities, sanitary sewer, and water lines. The private streets, courts, parking areas, and common open spaces areas will be maintained through an agreement between future residents, managed by a homeowner's association. Therefore, as conditioned, the design of the proposed map does not conflict with easements, acquired by the public at large, for access through or use of property within the proposed subdivision, in that such easements presently exist and such access will be retained, as currently provided within the Project and to adjacent public streets. This finding can be made in the negative.

EXHIBIT B: CONDITIONS OF APPROVAL

DR2022-011, MUP2022-026
38600 Cedar Boulevard
Alameda County Assessor's Parcel Numbers 92A-2585-12-1, 92A-2585-31

Planning Division

a. All conditions of approval for this project shall be printed on the approved project plans.

b. The owner of the project site, Cedar Blvd Townhomes, LLC, in coordination with the applicant, shall comply with the Purchase and Sale Agreement for the sale of the two City-owned segments located between the project site and Interstate 880. Per the Purchase and Sale Agreement, the Closing Date is 120 days after the City Council's approval of the project, or such earlier date as mutually agreed by both parties.

c. The project shall implement the mitigation measures from the LSA Air Quality and Greenhouse Gas Analysis dated November 7, 2022, or as amended. Prior to the issuance of a building permit, the applicant shall submit documentation showing how the project will implement the mitigation measures to the Community Development Director for review and approval.

d. The project shall implement the recommendations from the Salter Environmental Noise Assessment dated November 11, 2022, or as amended, and Salter Environmental Review of Construction Nosie Memo dated March 10, 2023, or as amended, to meet the City's noise standards. Prior to the issuance of a building permit, the applicant shall submit documentation showing how the project will implement the recommendations to the Community Development Director for review and approval.

e. The applicant is responsible for coordinating any work related to the bus stop at Cedar Boulevard and Moores Avenue (Stop ID# 51102) with AC Transit such as removal and relocation of any bus stop poles.

f. Compact parking spaces shall be labeled "compact" pursuant to NMC §17.23.090.D (Parking Area Design and Development Standards).

g. The applicant shall contact the agencies with rights to the easements on the Project site and confirm what structures and improvements are permitted within the easements prior to submittal of the improvement plans. If any modifications to the project plans are required after consultation with these agencies, the modifications shall be submitted to the Community Development Director for review and approval prior to building permit submittal.

h. The proposed short-term bicycle parking shall comply with all applicable regulations in NMC §17.23.070 (Bicycle Parking).

i. A long-term bicycle parking space shall be included in the garage of each unit and shall not obstruct the required dimensions of the garage parking spaces. Long-term bicycle parking shall comply with all applicable regulations in NMC §17.23.070 (Bicycle Parking).

j. The proposed outdoor recreational amenities such as play structures and equipment shall substantially match the approved project plans. Any proposed modifications shall be submitted to the Community Development Director for review and approval prior to building permit submittal.

k. The landscape plans submitted for building permit review shall substantially match the approved project plans and shall demonstrate compliance with NMC Chapter 17.21 (Landscaping) and §17.23.090 (Parking Area Design and Development Standards). The landscaping along the Cedar Boulevard frontage including landscaping between the buildings and public right-of-way and in the open space areas visible from the public right-of-way shall be enhanced landscaping and shall require review and approval by the Community Development Director prior to submittal of the improvement plans.

l. Trees between the buildings along Cedar Boulevard and the public right-of-way shall be a minimum 24-inch box size.

m. The sound wall proposed along the rear property line adjacent to Interstate 880 (I-880) shall match or complement the existing walls along the I-880 corridor.

n. Mechanical and electrical equipment such as air conditioners (AC) units shall not be placed in the front or street side yard. If equipment is placed in any other location that makes it visible to public view, the equipment shall be properly screened with solid material pursuant to the regulations in NMC §17.17.100 (Screening) and be approved by the Community Development Director.

o. All exterior utility pipes and meters shall be painted to match and/or complement the color of the adjoining building surface, as approved by the Community Development Director.

p. All exterior lighting shall comply with all applicable regulations in NMC §17.17.060 (Lighting and Illumination) and NMC Chapter 17.23 (Parking and Loading). All exterior lighting shall be directed on-site so as not to create glare off-site, as required by the Community Development Director.

q. The site and its improvements shall be maintained in a neat and presentable condition, to the satisfaction of the Community Development Director. This shall include, but not be limited to, repainting surfaces damaged by graffiti and site clean-up. Graffiti removal/repainting and site cleanup shall occur on a continuing, as needed basis. Any vehicle or portable building brought on the site during construction shall remain graffiti free.

r. Parking lot cleaning with sweeping or vacuum equipment shall not be permitted between 7:00 p.m. and 7:00 a.m.

s. The covenants, conditions, and restrictions (CC&Rs) filed for this development shall include the following provisions:

1. There shall be no short-term rentals which is a rental of the unit or room(s) within a unit for a period of 30 consecutive calendar days or less.

2. Garages shall only be used for automobile parking incidental storage, and similar uses and shall not be used as living space. This restriction shall not apply when a garage conversion is proposed to accommodate an accessory dwelling unit (ADU) or junior ADU (JADU) in conformance with State regulations in effect.

3. No refuse, garbage or recycling shall be stored outdoors. Waste and recycling containers shall be stored within the garage but may not obstruct required parking areas.

4. All residents shall have access to and use of the common open space areas. Private improvements within common open space areas are prohibited except as shown on approved project drawings.

5. The homeowner's association shall be responsible for maintenance and repair of all outdoor recreational amenities such as play structures and equipment.

6. The homeowner's association shall be responsible for maintenance of all common open space areas including, but not limited to, the dog area and park areas.

7. The homeowner's association shall be responsible for maintenance of all parking lots, including landscaped areas, driveways, and loading areas. The parking lots shall be free of refuse, debris, or other accumulated matter and shall be kept in good repair at all times.

8. Guest parking spaces shall be clearly marked as reserved for guests and available with unrestricted access.

9. Exterior changes including, but not limited to, paint, landscaping, hardscape, and windows and doors, are prohibited unless expressly approved by the City.

t. Prior to the issuance of a building permit, any changes to the approved color elevations, floor plans, and/or fence and wall details shall be reviewed and approved by the Community Development Director.

u. With the exception of the proposed sound wall, fences and walls within the required front yard of the Project site shall be limited to a maximum of three feet in height pursuant to NMC §17.17.040 (Fences and Freestanding Walls).

v. Prior to the issuance of a building permit, the roof material as submitted by the applicant as part of this application shall be reviewed and approved by the Community Development Director. All roof material shall consist of fire-retardant shake roof, concrete tile, or a roof of similar noncombustible material. Mansard roofs with the above material may be used to

screen tar and gravel roofs. All roofs shall be of Class C fire resistant construction or better. Composition shingles shall be Presidential-style or of comparable quality, subject to the review and approval of the Community Development Director.

w. Prior to the issuance of a building permit, the applicant shall submit a "Will Serve" letter, or equivalent document, demonstrating approval of the project and agreeance to provide garbage, refuse and recycling services from Republic Services to the Community Development Director. Any revisions to the proposed garbage, refuse and recycling service pick up plan shall require review and approval by the Community Development Director. No refuse, garbage or recycling shall be stored outdoors.

x. Prior to the issuance of a Certificate of Occupancy for an individual unit, roll-up garage doors with automatic garage door openers shall be provided for such unit.

y. Prior to the issuance of a Certificate of Occupancy, the parking areas within and applicable to the specific construction phase shall be installed and striped as shown on the approved site plan.

z. Prior to the issuance of grading and site work permit(s), mailbox locations and designs shall be approved by the Community Development Director and Newark Postmaster, in that order. The mailbox compartments of centralized mailboxes shall identify the individual dwelling units with permanent, easily legible lettering.

aa. Prior to final inspection and utility release for each unit, the applicant shall pre-wire each unit for satellite and cable television connections, as required by the Community Development Director. The exterior connections for the pre-wire shall be made to the roof and or on a side elevation of the home, not facing a street, just under the building eave, with the satellite mounting location either on the underside of the soffit or on the fascia board.

bb. All signs shall be submitted for the review and approval of the Community Development Director. All signs shall comply with NMC Chapter 17.25 (Signage Standards).

cc. During project construction, if historic, archeological, or Native American materials or artifacts are identified, work within a 50-foot radius of such find shall cease and the City shall retain the services of a qualified archeologist and/or paleontologist to assess the significance of the find. If such find is determined to be significant by the archeologist and/or paleontologist, a resource protection plan conforming to CEQA §15064.5 shall be prepared by the archeologist and/or paleontologist and approved by the Community Development Director. The plan may include, but would not be limited to, removal of resources or similar actions. Project work may be resumed in compliance with such plan. If human remains are encountered, the County Coroner shall be contacted immediately, and the provisions of State law carried out.

dd. Construction site trailers and buildings located on-site shall be used for office and storage purposes only and shall not be used for living or sleeping quarters. Any vehicle or portable building brought on the site during construction shall remain graffiti free.

ee. Measures to respond to and track complaints pertaining to construction noise shall include: (1) a procedure and phone numbers for notifying the City of Newark Building Inspection Division and Newark Police Department (during regular construction hours and off-hours); and (2) a sign posted on-site pertaining to the permitted construction days and hours and complaint procedures and who to notify in the event of a problem. The sign shall also include a listing of both the City and construction contractor's telephone numbers (during regular construction hours and off-hours).

ff. Prior to the issuance of a building permit, the applicant shall pay all applicable impact fees in the amount in effect at the time. If the applicant is eligible for a Transportation Impact Fee credit pursuant to Condition "nn" as determined by the City Engineer, the Transportation Impact Fee will be adjusted accordingly as determined by the City Engineer.

gg. The approval or conditional approval of the tentative map shall expire 24 months from the date the map was approved or conditionally approved pursuant to NMC §16.08.070 (Tentative Map). The approved or conditionally approved map may be granted additional period(s) of time as permitted by the Subdivision Map Act.

hh. Any permit granted under NMC Title 17 (Zoning) shall automatically expire if it is not exercised or extended within two years of its approval pursuant to NMC §17.31.130 (Expiration and Extension).

Engineering Division

ii. The project shall conform to Vesting Tentative Map – Tract 8665, Sheets 1 through 8, and all conditions of approval set forth herein. Approval of the Vesting Tentative Map shall expire according to the provisions of the State Subdivision Map Act and any amendments thereto and applicable provisions of the Newark Municipal Code consistent with the State Subdivision Map Act.

jj. The final map shall designate and/or dedicate emergency vehicle access ways, private vehicle access ways, open space/recreational easements, public utility easements, and other easement as may be required over the common area. The final easement geometry shall be subject to the approval of the City Engineer.

kk. The development will require approval of a final tract map filed in accordance with the State Subdivision Map Act and the City of Newark Subdivision Ordinance. The final map shall be recorded prior to the issuance of any building permits.

ll. The final map and complete tract improvement plans shall be submitted to the Engineering Division for review to ensure conformance with relevant codes, policies, and other requirements of the Newark Municipal Code and City of Newark street improvement standards. These plans shall be prepared by a qualified person licensed by the State of California to do such work. The plans shall be drawn to an appropriate scale as required by the City Engineer.

mm. Prior to approval of the final map, the applicant shall enter into a Subdivision Improvement Agreement with the City and guarantee all necessary public and private street improvements and other common area improvements within the subdivision and beyond the map boundary in accordance with the tract improvement plans to be approved by the City Engineer.

nn. The applicant shall dedicate right-of-way and install complete street improvements for Cedar Boulevard as shown on the Vesting Tentative Map exhibits and as described below:

Cedar Boulevard

1. The applicant shall dedicate 8 feet of right-of-way and install street improvements including, but not limited to, project driveways, landscape median, public sidewalks, pavement widening, curb and gutter removal and replacement, curb ramps, frontage landscaping, grind and overlay to the median, pavement striping and signage, street lighting, undergrounding existing overhead utilities, fire hydrants, landscape and irrigation facilities, utility connections, removal of existing street trees to facilitate street improvements, and other related improvements. The Cedar Boulevard median, north of Moores Avenue, shall be connected to the landscape median installed by the adjacent development.

2. A modified City standard Type-S driveway cut shall be constructed at the project entrance on Cedar Boulevard.

3. The applicant shall install a traffic signal at the intersection of Cedar Boulevard and Smith Avenue. Traffic Signal plans shall be prepared, reviewed, and approved as part of the tract improvement plans. The applicant shall submit complete traffic signal plans, inclusive of a pole schedule with the first submittal of the improvement plan set. The applicant shall identify long lead items. City will endeavor to prioritize the review and approval of the long lead items. Within 45 days of City approval of the long lead items, the applicant shall order or otherwise contract for the delivery and installation of the items and submit to the City a written confirmation of contract or order invoice. The applicant shall in good faith effort have the traffic signal operational prior to issuance of the first Certificate of Occupancy for any residential unit. For the purposes of clarity, this condition is not intended to restrict the proposed model homes.

   The adjacent residential development to the west of this project is similarly conditioned to provide the traffic signal improvements at Cedar Boulevard and Smith Avenue. If, at the time of final map approval, the other developer has already provided guarantee(s) or other appropriate improvement security for the traffic signal, the project will not be required to install the traffic signal, the project will not be eligible for any traffic impact fee (TIF) reimbursement and the normal traffic impact fees will need to be paid during Building Permit issuance.

   If the traffic signal is not operational prior to issuance of the first Certificate of

Occupancy for any residential unit due to manufacturing or delivery delays of the long lead items for either developer, the applicant and the City Engineer shall discuss an alternative option to implement until the traffic signal is operation. The alternative option is subject to approval by the City Engineer. All costs to fund the alternative option shall be funded by the applicant.

4. The traffic signal at the intersection of Cedar Boulevard and Smith Avenue is identified as a priority improvement by the City and the applicant that installs the traffic signal is entitled to a traffic impact fee credit for the total cost of the traffic signal improvements not to exceed $500,000. The final scope and cost of the traffic signal improvement is subject to review and approval by the City Engineer.

   The traffic signal shall be operational prior to the issuance of the first Certificate of Occupancy for any residential unit. If this project installs the traffic signal, the applicant is eligible for a waiver of Transportation Impact Fees and cash, with a cap of up to $500,000 (final cost of traffic signal cost subject to review and approval by the City Engineer). The cash portion is calculated as total traffic signal approved cost minus the project's Transportation Impact Fees. The applicant will receive the cash portion upon the traffic signal turn-on.

   The traffic impact fee cost for each building permit will be deducted from the approved total credit of up to $500,000 until depleted.

   Since the traffic signal improvement work is considered a "public works" project under Labor Code section 1720 and public funds will be paid, in whole or in part, for the traffic signal improvements, the applicant will be required payment of prevailing wages to workers employed for the construction of the traffic signal improvement work.

5. Existing streetlights along Cedar Boulevard shall be upgraded to LED heads. A photometrics plan showing that at least a 0.12fc coverage is provided with the LED heads.

6. Any decorative pavement features for the Cedar Boulevard driveway shall be placed behind the right-of-way.

7. The applicant shall coordinate with AC Transit regarding whether to relocate the bus stop west of the Moores Avenue intersection on Cedar Boulevard. The location of the bus stop, as approved by AC Transit, shall be shown on the improvement plans prior to final map approval. No approval is required for the bus stop staying in the as-is location with the project. The applicant shall provide to the City correspondence(s) to confirm the discussions with AC Transit relating to this condition.

oo. Prior to final map approval, the applicant shall apply and receive approval for a conditional letter of map revision based on fill (CLOMR- F) from the Federal Emergency Management

Agency (FEMA). The CLOMR-F shall be based upon the project grading plan and shall conclude that the structures for human occupancy will be removed from the special flood hazard area (SFHA). Prior to occupancy of any buildings within the SFHA, the developer shall apply and receive approval of a letter of map revision based on fill (LOMR-F) from FEMA. On July 1, 2023, FEMA temporarily suspended the processing of CLOMR-Fs and LOMR-Fs. If, prior to final map approval, the temporary suspension of CLOMR-Fs and LOMR-Fs is still in effect, the CLOMR-F application to FEMA shall be deferred and applied for as soon as the temporary suspension is lifted. If, prior to occupancy, the temporary suspension of CLOMR-Fs and LOMR-Fs is still in effect, the applicant shall provide complete Elevation Certificates demonstrating that the property for occupancy is outside the Special Flood Hazard Area. Prior to tract acceptance, if the temporary suspension of CLOMR-Fs and LOMR-Fs is still in effect, the applicant shall submit the LOMR-F application package to the City or enter into a deferred agreement with the City for preparing and processing the LOMR-F application package once FEMA lifts the suspension. For either option, the cost of the preparation and fees associated with the FEMA LOMR-F application shall be paid for by the applicant.

pp. Prior to final map approval, existing buildings within the project boundary shall be demolished. Applicant shall apply and receive a building permit and obtain a permit final for the demolition.

qq. The applicant shall install private streets and common area improvements including, but not be limited to driveways, drive aisles, parking facilities, utilities, recreational areas and facilities, storm water treatment facilities, screen walls, fencing, and all landscape areas. All private streets and common area improvements in the development shall be designed and constructed to City standards, are subject to review and approval by the City Engineer and shall be included with the tract improvement plans.

rr. The applicant shall obtain grading and site work permit(s) from Building Inspection Division for the site grading (rough grading and/or fine grading) and private structures including, but not limited to, project privacy sound wall, play structures, mailboxes, trellis bus shelter, and low retaining walls.

ss. Prior to the building permit issuance for the privacy sound wall along I-880, the applicant shall contact the California Department of Transportation (Caltrans) and confirm if an encroachment permit is required for installation of the project privacy wall and any other required improvements within or adjacent to the Interstate-880 right-of-way. Applicant shall either demonstrate to the satisfaction of the Chief Building Official that no encroachment permit is required or obtain such encroachment permit if one is required.

tt. Concurrent with approval of the final map, the applicant shall effectuate the removal of any existing easements encumbering the property that conflict with areas proposed for improvement. Elimination or modification of existing easements on the site requires the approval from the respective utility district or company and the City of Newark. If, with good faith effort exercised by the applicant, the approval from the utility districts or company cannot be obtained prior to final map approval, the elimination or modification

of the respective existing easement can be deferred to prior to the issuance of the building permit(s) affected by the easement, subject to the approval of the City Engineer.

uu. All improvements at the 'A' Street and Cedar Boulevard driveway entrance shall conform to the City's Sight Visibility Ordinance, Newark Municipal Code Chapter 10.36. Prior to Final Map approval, all building architecture and other above-ground improvements shall be located and designed as necessary to comply with this ordinance.

vv. Prior to the issuance of the initial grading or any building permits for this project, the applicant shall submit a Storm Water Pollution Prevention Plan for the review and approval of the City Engineer. The plan shall include sufficient details to show how storm water quality will be protected during both: (1) the construction phase of the project and (2) the post construction, operational phase of the project. The construction phase plan shall include Best Management Practices from the California Storm Water Quality Best Management Practices Handbook for Construction Activities. The specific storm water pollution prevention measures to be maintained by the contractor shall be printed on the plans. The operational phase plan shall include Best Management Practices appropriate to the uses conducted on the site to effectively prohibit the entry of pollutants into storm water runoff from this site including, but not limited to, trash and litter control, pavement sweeping, periodic storm water inlet cleaning, landscape controls for fertilizer and pesticide applications, labeling of storm water inlets with a permanent thermoplastic stencil with the wording "No Dumping - Drains to Bay," and other applicable practices.

ww. The provided Preliminary Stormwater Treatment Plan is approved in concept only. Final approval is subject to the applicant providing the necessary plans, details, and calculations that demonstrate the plan complies with the Municipal Regional Stormwater NPDES Permit (MRP), Order R2-2022-0018, revised July 1, 2022, issued to the City of Newark by the Regional Water Quality Control Board, San Francisco Bay Region.

xx. The property owner shall enter into a Stormwater Treatment Measures Maintenance Agreement, which will be recorded against the property. The applicant's project engineer shall provide all required exhibits associated with the agreement.

yy. The applicant shall submit detailed grading and drainage plans for review and approval by the City Engineer and the Alameda County Flood Control and Water Conservation District. These plans must be based upon a City benchmark and need to include pad and finish floor elevations of each proposed structure, proposed on-site property grades, proposed elevations at property line, and sufficient elevations on all adjacent properties to show existing drainage patterns. All on-site pavement shall drain at a minimum of one percent. The applicant shall ensure that all upstream drainage is not blocked and that no ponding is created by this development. Any construction necessary to ensure this shall be the applicant's responsibility.

Hydrology and hydraulic calculations shall be submitted for review and approval by the City Engineer and the Alameda County Flood Control District prior to approval of the final map. The calculations shall show that the City and County freeboard requirements will be

satisfied.

zz. All stormwater treatment measures are subject to review and approval by the Alameda County Mosquito Abatement District. The applicant shall modify the grading and drainage and stormwater treatment design as necessary to satisfy any imposed requirements from the District.

aaa. The entire site shall be equipped with full trash capture devices approved by the Regional Water Quality Control Board – San Francisco Bay Region and the Mosquito Abatement District, for 100% trash capture at all on-site and adjoining off-site storm drain inlets. All on-site trash capture devices shall be permanently maintained by the HOA. Acceptable off-site trash capture devices can be found on the City's website at https://www.newark.org/departments/public-works/engineering-division/stormwater-program.

bbb. The applicant shall ensure that a water vehicle for dust control operations and a pick-up or vacuum type street sweeper to remove tracked dirt and debris from adjacent streets is kept readily available at all times during construction at the City Engineer's direction.

ccc. The applicant shall implement the following measures for the duration of all construction activity to minimize air quality impacts:

1. Watering should be used to control dust generation during demolition of structures and break-up of pavement.

2. All trucks hauling demolition debris from the site shall be covered.

3. Dust-proof chutes shall be used to load debris into trucks whenever feasible. Watering should be used to control dust generation during transport and handling of recycled materials.

4. All active, unpaved construction areas shall be watered at least twice daily and more often during windy periods; active areas adjacent to the existing land uses shall be kept damp at all times or shall be treated with non-toxic stabilizers or dust palliatives.

5. All trucks hauling soil, sand, and other loose materials shall be covered or require all trucks to maintain at least 2 feet of freeboard.

6. All unpaved access roads, parking areas, and staging areas at construction sites shall be paved, watered two times daily, or treated with (non-toxic) soil stabilizers.

7. All paved access roads, parking areas, and staging areas at construction sites with visible mud or dirt track-out shall be swept daily with water sweepers; water sweepers shall vacuum up excess water to avoid runoff-related impacts to water quality.

8. Limit traffic speeds on unpaved roads to 15 mph.

9. Install sandbags or other erosion control measures to prevent silt runoff to public roadways.

10. Replant vegetation in disturbed areas as quickly as possible.

11. Minimize idling time (5 minutes maximum).

12. Maintain properly tuned equipment.

These measures shall be incorporated into the grading specifications as well as the best management practices of the storm water pollution prevention plan and shall be implemented to the satisfaction of the City Engineer.

ddd. Where a grade differential of more than a 1-foot is created along the boundary parcel lines between the proposed development and adjacent property, the applicant shall install a masonry retaining wall unless a slope easement is approved by the City Engineer. Said retaining wall shall be subject to review and approval of the City Engineer.

eee. Prior to or concurrently with the first submittal of the final map and improvement plans, the applicant shall provide specific recommendations to mitigate identified seismic hazards discussed in the City's Geotechnical Consultant's letter dated June 14, 2023. The applicant's Geotechnical Consultant shall submit a letter-report addressing the items identified in the June 14, 2023 letter to the City for review by the City's Geotechnical Consultant. The applicant shall pay for all costs associated with the geotechnical peer review per the City's Master Fee Schedule.

fff. The applicant's geotechnical consultant shall review and approve all geotechnical aspects of the project building plans (i.e. site preparation and grading, site drainage improvements and design parameters for foundations) to ensure that their recommendations have been properly incorporated.

ggg. The applicant's geotechnical consultant shall inspect, test (as needed), and approve all geotechnical aspects of the project construction. The inspections shall include, but not necessarily be limited to: site preparation and grading, site surface and subsurface drainage improvements, and excavations for foundations prior to the placement of steel and concrete. The results of these inspections and the as-built conditions of the project shall be described by the geotechnical consultant in a letter and submitted to the City Engineer for review and approval prior to final project approval.

hhh. The applicant shall submit a detailed soils report prepared by a qualified engineer, registered with the State of California. The report shall address in-situ and import soils in accordance with the City of Newark Grading and Excavation Ordinance, Chapter 15.50. The report shall include recommendations regarding pavement sections for all public and

private streets. Grading operations shall be in accordance with recommendations contained in the soils report and shall be completed under the supervision of an engineer registered in the State of California to do such work.

iii. Prior to issuance of a Certificate of Occupancy or release of utilities for any building, vehicle access ways and parking facilities serving said building shall be paved in accordance with the recommendation of a licensed engineer based on a Traffic Index of 5.0 and striped as shown on the approved site plan. Minimum asphalt concrete thickness for the vehicle access ways shall be 4 inches. This condition is not intended to cover vehicle access ways or parking facilities project wide, only those specific areas which are necessary for each individual building and consistent with an approved construction phasing plan filed with Building Inspection Division.

jjj. Prior to issuance of a Certificate of Occupancy or release of utilities for each phase of dwelling units to be delivered, the on-site drive aisles and uncovered parking facilities serving such phase shall be installed and striped as shown on the approved plans. All on-site uncovered parking facilities and drive aisles shall be drained at a minimum slope of 1.0% for asphalt surfaces and 0.3% for Portland cement concrete surfaces.

kkk. The applicant shall remove the existing joint utility pole and anchor pole and underground existing overhead lines along the Cedar Boulevard frontage. The overhead alignment on the Moores Avenue right-of-way shall be undergrounded from the project to the next overhead pole near Wintergreen Drive. Additionally, the applicant shall underground existing overhead lines along the northern boundary and within the project site. All existing overhead lines between the subdivisions on both sides of the Alameda County Flood Control channel shall be removed.

lll. All new utilities including, but not limited to, electric, telephone and cable television services shall be provided underground for all buildings in the development in accordance with the City of Newark Subdivision Standards. As shown on the approved entitlement drawings, pad mounted electrical transformers shall be installed with an appropriate public utility easement and shall be screened properly from the roadways.

mmm. All improvement plans are subject to review and approval by the Alameda County Water District (ACWD), Union Sanitary District (USD), Alameda County Flood Control and Water Conservation District (ACFC&WCD), and Pacific, Gas & Electric Company (PG&E). Any modifications to the site design provided with the vesting tentative map as necessary to satisfy requirements from individual utilities or districts are the sole responsibility of the applicant. The applicant shall coordinate with Pacific, Gas & Electric Co. for the design of the underground utility improvements for the proposed development as soon as practical following vesting tentative map approval.

nnn. The joint trench and street light plans shall be submitted by the applicant with the first tract improvement plan check and approved prior to final map approval.

ooo. Multiple street cuts and openings (i.e. greater than two street cuts or openings) as a result of utility connections and other necessary street openings on Cedar Boulevard shall be resurfaced (grind and overlay) from curb to curb between the two furthest utility cuts to the satisfaction of the City Engineer. All pavement restoration and resurfacing shall be completed concurrent with site development.

ppp. The applicant shall repair and/or replace any public improvements along the Cedar Boulevard right-of-way and private improvements along the exterior boundary of the site damaged as a result of construction activity to the satisfaction of the City Engineer.

qqq. The applicant shall provide all required paper and digital submittals of the project final map, tract improvement plans, and as-built plans as required by the City Engineer, including, but not necessarily limited to the following: (1) One full-sized mylar copy and an electronic copy of the recorded final map; (2) Two full-sized reproducible copy, four half-sized reproducible copy, and electronic copies of the approved improvement plans in a format approved by the City Engineer; (3) Electronic copies and one mylar set of the as-built tract improvement plans. All digital copies of the final map and improvement plans shall be prepared in accordance with Union Sanitary District digital submittal standards.

rrr. The applicant shall establish a Homeowner's Association (HOA) consisting of all property owners of lands in the development at the time of incorporation and in the future for the purpose of maintaining the association's property, common drive aisles, common area parking facilities, common area stormwater treatment facilities, common area landscaping, and landscaping in the adjacent public rights-of-way (excluding any landscaping/ improvements in medians, or otherwise included in the LLD), and for paying for lighting (if any), common garbage collection services (if any), security patrol services (if any), and other functions of a Homeowner's Association. Common areas within the development shall be owned and/or maintained by the Homeowner's Association as described in the covenants, conditions, and restrictions (CC&Rs). Each property owner shall automatically become a member of the association in accordance with the Developer's phasing plan and shall be subject to its share of common expenses incurred by the Homeowner's Association in accordance with the budget reviewed and approved by the Department of Real Estate. The Homeowner's Association shall be incorporated prior to the sale of any individual lots and/or prior to acceptance of tract improvements, whichever occurs first.

sss. Prior to City Council approval of the final map(s), any declaration of covenants, conditions, and restrictions (CC&Rs) governing the maintenance and operation of this development shall be reviewed and approved by the Community Development Director at his/her discretion after review and recommendations by the City Attorney. Said covenants, conditions and restrictions shall be available in the project sales office at all times. Approval of the covenants, conditions and restrictions shall not make the City a party to enforcement of same. The CC&Rs shall run with the land and therefore be binding on parties with leasehold interests. The CC&Rs shall be written to require homeowners to require renters to comply with the CC&Rs, and a copy of the CC&Rs shall be given to each renter. The CC&Rs shall require the HOA to properly budget for a pavement maintenance program for on-site pavement. Prior to tract acceptance, the applicant shall provide the City

a copy of the recorded CC&Rs.

ttt. The applicant shall at its own cost, have an initial Homeowner's Association budget prepared which initial budget shall be reviewed and approved by the California Department of Real Estate. The Homeowner's Association budget shall set forth the monthly assessment costs.

uuu. The Homeowner's Association shall be responsible for trash and litter control and sweeping of all private streets within the development. All private storm drain systems and all associated trash capture devices shall be cleaned on a regularly scheduled basis as detailed in the required Stormwater Treatment Measures Maintenance Agreement.

vvv. The Homeowner's Association shall be required to contract with a professional association management firm to handle all necessary maintenance operations. Documentation of such contract shall be submitted to the City of Newark prior to the issuance of the first Certificate of Occupancy for a residential unit in the project. All commonly owned facilities shall be properly maintained in a manner consistent with the CC&Rs and project requirements. (For the purposes of clarity, this condition is not intended to restrict the proposed model homes, anticipated to be lots 115-117.)

www. The applicant shall prepare a disclosure statement to all property owners indicating that the project site is located within a seismic hazard zone for liquefaction. The disclosure statement shall indicate that the buildings have been designed to current code requirements. The disclosure statement shall also indicate that the buildings, site improvements, and utilities are subject to damage during an earthquake and that the buildings may be uninhabitable after an earthquake. This disclosure statement is subject to review and approval of the City Engineer prior to the issuance of the first Certificate of Occupancy for any residential unit.

xxx. The applicant is to provide a complete set of as-built improvement plans and a copy of the project geotechnical report and recorded Final Map to the Homeowners Association prior to tract acceptance.

yyy. The CC&Rs shall contain a provision that prohibits the amendment of those provisions of the CC&Rs, identified in these Conditions of Approval, without the City's approval.

zzz. The following language shall be included in the CC&Rs:

Rights of City: Notwithstanding anything to the contrary in this Master Declaration, no amendment hereto which deals with any of the following matters shall be effective without the prior written consent of the Director of the City's Community Development Department, such consent not to be unreasonably withheld: (i) Any amendment, the design or purpose of which is to eliminate an obligation of the Association to maintain, manage and repair the Common Area or to lower the standards for maintaining and repairing such Common Area below that of other typical professionally managed and professionally landscaped common interest subdivisions in the City that are substantially similar to the

Project in terms of product type; (ii) Any amendment with regard to the fundamental purpose for which the Project was created (e.g., a change from residential use to a different use);(iii) Any material amendment to Sections….(sections required by condition of approval to be listed), and all defined terms therein, each of which were required as a condition of approval for the Project.(note: will need to define "Project.")

Enforcement by City: If the Association fails to Maintain the Common Area, or if the Association fails to enforce any of the provisions in which the City has interest, the City, as an intended third party beneficiary of the provisions of this Master Declaration, shall have the right, but not the duty, to compel performance of such provisions in any manner provided by law or in equity and in any manner provided in this Master Declaration. If the City determines that the Association has not performed required maintenance of a Common Area improvement, then the City shall provide the Association with written notice explaining the work that needs to be performed. If the Association does not complete the work within sixty (60) days of delivery of the written notice (or if the Association has not commenced the work within such period if the maintenance work cannot reasonably be completed within such period), then the City may enter and perform the required maintenance work. The City shall invoice the Association for the City's actual costs to perform the maintenance work. Association shall pay the City's invoice within thirty (30) days of the delivery of the invoice.

aaaa. The Declarant shall provide educational materials provided by City of Newark on stormwater pollution prevention to all residents as part of the builder disclosure package or otherwise within (3) three months of the initial sale of each home.

bbbb. Each initial buyer shall sign an acknowledgment that he/she has read the articles and bylaws of the Homeowner's Association and the CC&Rs governing the operation and maintenance of the development.

cccc. Street names and an addressing scheme shall be developed during the final map and improvement plan review process in accordance with the City of Newark's Street Numbering and Naming Ordinance (Chapter 12.12). This area of Newark has a "flower/shrub" theme for street names. The applicant may request a different theme for street names, which will be subject to review and approval by the City Engineer.

dddd. A signpost with a sign having an area of at least 15-inches by 21-inches shall be installed at or near the project entrances. The sign shall indicate "Private Property. Not dedicated for public use."

eeee. Reflective address signs shall be provided at each court to help identify the location of a residential unit for accurate first response. Signs shall be subject to review and approval by the City Engineer and the Fire Marshal.

Landscape Division

ffff. Prior to approval of the final map, the applicant shall petition the City Council to participate in a Landscaping and Lighting District for the perpetual maintenance of the median landscaping, lighting system, and stormwater trash capture devices along the project frontage on Cedar Boulevard. Maintenance activities will be performed by the City of Newark or its contractors through the Landscaping and Lighting District. All property owners within the vesting tentative map boundary shall be assessed annually in accordance with requirements established with the Landscaping and Lighting District. The applicant shall deposit sufficient funds for the City to hire a consultant to prepare the Engineer's Report, which shall be approved by the City Council. Prior to issuance of the first Certificate of Occupancy for any residential unit, the City Council shall adopt a resolution for the formation of the Landscaping and Lighting District. The applicant shall record an indenture advising all prospective property owners in the project that their properties are included in a Landscape and Lighting District for maintenance of landscaping, lighting, and related improvements installed as part of the project.

gggg. All landscape maintenance on-site and along the project frontage, including the right-of-way planter strips along Cedar Boulevard but excluding the median landscaping, shall be the responsibility of the Homeowners Association. The applicant shall enter into a Landscape Maintenance Agreement prior to approval of the final map. The applicant shall be permitted to assign the obligations to the HOA and shall thereafter be released from any ongoing obligations under such Agreement. The Landscape Maintenance Agreement shall run with the land and be binding to the Homeowners Association as successors.

hhhh. Prior to final map approval, landscape plans for work within the public right-of-way, dedicated easement areas, and all common areas shall be included with the tract improvement plans and approved by the City Engineer. The plans shall be prepared by a licensed landscape architect in accordance with the City of Newark requirements, standard details, and the State of California Model Water Efficient Landscape Ordinance (MWELO).

iiii. Prior to the release of utilities or issuance of any Certificate of Occupancy for a given project phase, all landscaping and irrigation systems associated with that phase, including all frontage and median landscaping, shall be completed or guaranteed by a cash deposit filed with the City in an amount to cover the remainder of the work.

jjjj. Prior to installation by the applicant, applicant shall submit a plan with plant species, location, container size, quality and quantity of all landscaping plants and materials within the public right-of-way, and such plan shall be reviewed and approved by the City Engineer. All street trees shall be a minimum of 24-inch box specimen. Plant replacements shall be to an equal or better standard than originally approved subject to approval by the City Engineer.

kkkk. Any above ground utility structures along Cedar Boulevard, including backflow prevention devices, and appurtenances, shall be installed within the applicant's property line and a minimum of 10 feet behind street face of curbs on Cedar Boulevard. The backflow prevention devices shall have a green painted security cage to protect it from vandalism. These locations shall be screened with landscaping to the satisfaction of the City Engineer. The landscape screen shall not interfere with the utility companies' or City Fire Department's access.

Fire Department

llll. Fire sprinkler and fire alarm systems shall be provided for the buildings.

Building Inspection Division

mmmm. The buildings and parking shall be designed to 11A.

Police Department

nnnn. The development shall comply with Chapter 15.06, Security Code, of the Newark Municipal Code and Section 510, Emergency Responder Radio Coverage, of the California Fire Code.

oooo. The Police Department highly recommends installation of community safety cameras in common areas where the residential units would be most susceptible to criminal activity. This would include parking areas, exterior pathways and exterior doors. The community safety cameras could be operated and controlled by individual owners, the Building Management or the Owners' Association.

pppp. The proposed development should comply with the City of Newark street numbering system and tie in with the existing area street numbering. Additionally, the proposed buildings should display the street address in a manner clearly visible from the adjacent roadway and parking areas in order to facilitate public safety personnel's ability to quickly identify its location during emergency responses.

qqqq. Individual residence numbering should be in a systematic method, specific to each unit in a non-repeating manner (i.e. no two units in the development with the same unit number). Additionally, street addresses should be displayed to front and rear garage area of each residence. Maps with unit numbering of the entire development should be placed in easy to find locations (preferably at entrances to the development and the buildings) in order to aid public safety personnel's ability to identify specific units during emergency responses.

Environmental Conditions of Approval

rrrr. The following conditions of approval have been identified in the Environmental Checklist for Streamlined Review Pursuant to California Public Resources Code Section 21083.3 and CEQA Guidelines Sections 15168 and 15183, dated July 2023 to ensure implementation of applicable mitigation measures and policies set forth in the 2013

General Plan and the 2013 General Plan Environmental Impact Report. The applicant shall implement all conditions of approval as part of the Project:

AES-1: All exterior lighting shall comply with all applicable regulations in NMC §17.17.060 (Lighting and Illumination) and NMC Chapter 17.23 (Parking and Loading). All exterior lighting shall be directed on-site so as not to create glare off-site, as required by the Community Development Director.

AQ-1: Consistent with the Bay Area Air Quality Management District (BAAQMD) Basic Construction Mitigation Measures, the following controls are required to be included as specifications for the proposed project and implemented at the construction site to control for fugitive dust and exhaust as follows:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.

2. All haul trucks transporting soil, sand, or other loose material off site shall be covered.

3. All visible mud or dirt tracked-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.

4. All vehicle speeds on unpaved roads shall be limited to 15 miles per hour.

5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible.

6. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.

7. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California Airborne Toxics Control Measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.

8. All construction equipment shall be maintained and properly tuned in accordance with manufacturers' specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.

9. A publicly-visible sign shall be posted with the telephone number and person to contact at the City of Newark regarding dust complaints. This person shall respond and take corrective action within 48 hours. The BAAQMD's phone number shall also be visible to ensure compliance with applicable regulations.

AQ-2: During construction of the proposed project, the project contractor shall ensure all off-road diesel-powered construction equipment of 50 horsepower or more used for the project construction at a minimum meets the California Air Resources Board Tier 3 emissions standards with level 3 diesel particulate filters or equivalent.

AQ-3: The following measures shall be required to reduce toxic air contaminants (TACs) and particulate matter indoors to a level sufficient to achieve compliance with BAAQMD health risk thresholds:

1. The project applicant shall provide an HVAC system with a control efficiency sufficient to result in a reduction of a minimum 85 percent of particulates of 10 microns or less, such as Minimum Efficiency Reporting Value (MERV)-9 filters or greater, for indoor air filtration systems. The ventilation system shall be certified to achieve the stated performance effectiveness from indoor areas.

2. The project applicant shall locate all air intakes as far away from Interstate 880 (I-880) as feasible.

3. The project applicant shall disclose to potential occupants of the project that the proximity of the project site to the freeway could result in increased long-term health risks. The disclosure shall indicate the specifications for the installed air filtration system.

BIO-1:To avoid and minimize potential impacts to nesting birds including passerines and raptors, the following measures shall be implemented:

1. Grading or removal of potentially occupied habitat should be conducted outside the nesting season, which occurs between approximately February 1 to August 31.

2. If grading between August 31 and February 1 is infeasible and groundbreaking must occur within the nesting season, a pre-construction nesting bird survey (migratory species, passerines, and raptors) of the potentially occupied habitat (trees, shrubs, grassland) shall be performed by a qualified biologist within 7 days of groundbreaking. If no nesting birds are observed no further action is required and grading shall occur within one week of the survey to prevent "take" of individual birds that could begin nesting after the survey.

3. If active bird nests (either passerine and/or raptor) are observed during the pre-construction survey, a disturbance-free buffer zone shall be established around the occupied habitat until the young have fledged, as determined by a qualified biologist.

4. The radius of the required buffer zone can vary depending on the species, (i.e., 75-100 feet for passerines and 200-500 feet for raptors), with the dimensions of any required buffer zones to be determined by a qualified biologist in consultation with CDFW.

5. To delineate the buffer zone around the occupied habitat, construction fencing shall be placed at the specified radius from the nest within which no machinery or workers shall intrude.

6. Biological monitoring of active nests shall be conducted by a qualified biologist to ensure that nests are not disturbed and that buffers are appropriate, adjusted by a qualified biologist as needed to avoid disturbance.

7. No construction or earth-moving activity shall occur within any established nest protection buffer prior to September 1 unless it is determined by a qualified ornithologist/biologist that the young have fledged (that is, left the nest) and have attained sufficient flight skills to avoid project construction zones, or that the nesting cycle is otherwise completed.

BIO-2: Prior to any tree removal or alteration, the applicant shall obtain a tree removal permit from the City of Newark Public Works Department and implement tree planting requirements in accordance with development review.

CUL-1: During project construction, if historic, archaeological or Native American materials or artifacts are identified, work within 50 foot radius of such find shall cease and the City shall retain the services of a qualified archeologist and/or paleontologist to assess the significance of the find. If such a find is determined to be significant by the archeologist and/or paleontologist, a resource protection plan conforming to CEQA §15064.5 shall be prepared by the archeologist and/or paleontologist and approved by the Community Development Director. The plan may include, but would not be limited to, removal of resources and similar actions. Project work may be resumed in compliance with such a plan. If human remains are encountered, all ground disturbing activities near or in any area potentially overlying adjacent human remains shall cease, the County Coroner shall be contacted immediately, and the provisions of State law carried out.

GEO-1: Prior to or concurrently with the first submittal of the final map and improvement plans, the applicant shall provide specific recommendations to mitigate identified seismic hazards discussed in the City's Geotechnical Consultant's letter dated June 14, 2023. The applicant's Geotechnical Consultant shall submit a letter-report addressing the items identified in the June 14, 2023, letter to the City for review by the City's Geotechnical Consultant. The applicant shall pay for all costs associated with the geotechnical peer review per the City's Master Fee Schedule.

GEO-2: Prior to or concurrently with the first submittal of the final map and improvement plans, the applicant shall provide specific recommendations to mitigate impacts of expansive soils on the site. The applicant's Geotechnical Consultant shall submit a letter-report addressing expansive soils on the site, to the City for review by the City's Geotechnical Consultant. The applicant shall pay for all costs associated with the geotechnical peer review per the City's Master Fee Schedule.

GHG-1: The project shall include and show on the plans a minimum of 10 percent of the parking spaces as electric vehicle (EV) charging stations consistent with current California Green Buildings Standards Code (CALGreen) Tier 2 standards.

HAZ-1: Prior to issuance of any demolition permit, the applicant/project developer shall have a qualified environmental professional complete testing on structures to be removed for the presence of actionable quantities of asbestos materials, lead based paint and other contaminants. These materials shall be remediated by a licensed contractor and disposed of in an appropriately licensed landfill. Necessary permits shall be obtained from the Alameda County Fire Department, Newark Building Inspection Division, the Bay Area Air Quality Management District and other agencies, as applicable. All work shall be performed in accordance with state and federal OSHA standards. Worker safety plans shall be included for all demolition or deconstruction plans.

HAZ-2: The Project applicant shall implement the following actions:

1. Copies of the Phase I ESA shall be filed with the Alameda County Water District, Newark Community Development Department, the Newark Public Works Department and the Hazardous Materials Bureau of the Alameda County Fire Department.
2. Prior to the issuance of the grading permit, the applicant shall prepare a Soil and Water Management Plans (SWMPs) for the Project site as the Phase I ESA identifies actionable levels of soil and/or water contamination on the site. The SWMPs shall be prepared by a state-certified environmental professional and shall include, at minimum, a description of soils to be graded or disturbed as part of the project, detailed soil and water sampling to identify the extent of the contaminants, describe site remediation activities and procedures for removing the contaminants, and location(s) for disposal of contaminated material. The applicant shall obtain necessary permits for implementation of the site remediation and shall also provide evidence to the City of Newark, prior to the issuance of the grading permit, demonstrating that the RECs have been resolved to the satisfaction of the applicable regulatory agencies for future residential land use. Permits and closure letters shall be obtained from appropriate agencies if site remediation is found.
3. Prepare a plan/s to deal with de-watering of the site and safe disposal of contaminated groundwater in the event of groundwater contamination on the site or vicinity. These plans shall be prepared by qualified environmental hazard consultants and approved by the Newark Community Development Director, or their designee, prior to grading permit issuance, and required permits shall be obtained from appropriate agencies for all site investigation and remediation.

HYD-1: Preliminary Stormwater Treatment Plan is approved in concept only. Final approval is subject to the applicant providing, prior to the issuance of the grading permit, the necessary plans, details, and calculations that demonstrate the plan complies with the Municipal Regional Stormwater NPDES Permit (MRP), Order R2-2022-0018, revised July 1, 2022, issued to the City of Newark by the Regional Water Quality Control Board, San Francisco Bay Region.

HYD-2: Prior to issuance of a building permit, the applicant shall prepare a Stormwater Treatment Measures Maintenance Agreement for post-construction water quality. The Agreement shall be reviewed and accepted by the City Engineer prior to Project Construction on the site.

HYD-3: The Project's development, including streets and surface improvements, shall be placed above the 100-year flood elevation as confirmed by the City Engineer.

HYD-4: Prior to final map approval, the applicant shall apply and receive approval for a conditional letter of map revision based on fill (CLOMR- F) from the Federal Emergency Management Agency (FEMA). The CLOMR-F shall be based upon the project grading plan and shall conclude that the structures for human occupancy will be removed from the special flood hazard area (SFHA). Prior to occupancy of any buildings within the SFHA, the developer shall apply and receive approval of a letter of map revision based on fill (LOMR-F) from FEMA. On July 1, 2023, FEMA temporarily suspended the processing of CLOMR-Fs and LOMR-Fs. If, prior to final map approval, the temporary suspension of CLOMR-Fs and LOMR-Fs is still in effect, the CLOMR-F application to FEMA shall be deferred and applied for as soon as the temporary suspension is lifted. If, prior to occupancy, the temporary suspension of CLOMR-Fs and LOMR-Fs is still in effect, the applicant shall provide complete Elevation Certificates demonstrating that the property for occupancy is outside the Special Flood Hazard Area. Prior to tract acceptance, if the temporary suspension of CLOMR-Fs and LOMR-Fs is still in effect, the applicant shall submit the LOMR-F application package to the City or enter into a deferred agreement with the City for preparing and processing the LOMR-F application package once FEMA lifts the suspension. In either options, the cost of the preparation and fees associated with the FEMA LOMR-F application shall be paid for by the applicant.

HYD-5: The applicant shall submit detailed grading and drainage plans for review and approval by the City Engineer and the Alameda County Flood Control and Water Conservation District. These plans must be based upon a City benchmark and need to include pad and finish floor elevations of each proposed structure, proposed on-site property grades, proposed elevations at property line, and sufficient elevations on all adjacent properties to show existing drainage patterns. All on-site pavement shall drain at a minimum of one percent. The applicant shall ensure that all upstream drainage is not blocked and that no ponding is created by this development. Any construction necessary to ensure this shall be the applicant's responsibility.

Hydrology and hydraulic calculations shall be submitted for review and approval by the City Engineer and the Alameda County Flood Control District prior to approval of the final map. The calculations shall show that the City and County freeboard requirements will be satisfied.

NOI-1: The following noise reduction measures will be implemented to minimize the impact of construction noise onto offsite receivers:

1. Construction activity shall be limited to the hours of 7 AM to 7 PM Monday through

Friday and 10 AM to 6 PM on Sundays and holidays. Noise from construction activity occurring outside these hours will be limited to the levels outlined in the Newark Municipal Code Section 17.24.10.A.3.

2. The contractor shall require properly maintained mufflers on construction vehicles.

3. To the extent feasible, stationary construction equipment and staging areas shall be located as far as possible from adjacent residences and the motel.

4. The contractor shall implement temporary noise barriers between noisy activities and adjacent residences and the motel.

5. To the extent feasible, construction should proceed from Cedar Boulevard towards Intestate 880, and from south to north, so that constructed buildings will help shield residences from equipment and construction activities.

6. The contractor will designate a "noise disturbance coordinator" who would be responsible for responding to any local complaints about construction noise.

7. Signs will be posted at the construction site to notify the neighborhood of permitted days and hours of activities, and to provide a day-time telephone number for the noise disturbance coordinator.

NOI-2: Mechanical equipment noise as a result of the Project shall be limited to no more than 70 dBA between the hours of 7 a.m. and 9 p.m., and 60 dBA between the hours of 9 p.m. and 7 a.m in accordance with NMC Section 17.24.100.A.2.

NOI-3: Exterior building assemblies shall be sound-rated to reduce environmental noise to the DNL 45 dB criterion indoors. Sound insulation ratings should be for the complete assembly, including glass and frame, and should be based on laboratory test reports of similar sized samples from a National Voluntary Laboratory Accreditation Program (NVLAP) accredited lab. Since windows will need to be closed to meet the interior noise criteria, the mechanical design should meet ventilation requirements with windows in the closed position. The building assemblies shall be reviewed and accepted to meet the aforementioned criteria during the building permit process.

NOI-4: The height of the 18-foot tall retaining wall to the rear of the Project site adjacent to I-880 that would serve as a noise barrier shall be measured with respect to the freeway elevation, or yard elevation, whichever is higher. The barrier shall extend the length of the site and wrap the ends, returning towards Cedar Boulevard and shall be solid from bottom to top with no cracks or gaps and have a minimum surface density of approximately three pounds per square foot to reduce traffic noise levels in Project related outdoor spaces to DNL 65 dB or below. The barrier shall step down along the side property lines from a height of 18 feet to 8 feet, as shown in Figure 2 of the Environmental Noise Assessment, prepared by Salter, November 11, 2022.

NOI-5: Limit the use of the following construction equipment to the following distances from the motel building located toward the south of the Project site.

1. Large bulldozers and loaded trucks to a minimum of 50 feet.

2. Jackhammering to a minimum of 30 feet.

3. vibratory rollers to a minimum of 85 feet.

TRAN-1: The applicant shall dedicate right-of-way and install complete street improvements for Cedar Boulevard as shown on the Vesting Tentative Map exhibits and as described below:

Cedar Boulevard

The applicant shall install a traffic signal at the intersection of Cedar Boulevard and Smith Avenue. Traffic Signal plans shall be prepared, reviewed, and approved as part of the improvement plans. The applicant shall submit complete traffic signal plans, inclusive of a pole schedule with the first submittal of the improvement plan set. The applicant shall identify long lead items. City will endeavor to prioritize the review and approval of the long lead items. Within 45 days of City approval of the long lead items, the applicant shall order or otherwise contract for the delivery and installation of the items and submit to the City a written confirmation of contract or order invoice. The applicant shall in good faith effort have the traffic signal operational prior to issuance of the first Certificate of Occupancy for any residential unit. For the purposes of clarity, this condition is not intended to restrict the proposed model homes.

The adjacent residential development to the west of this project is similarly conditioned to provide the traffic signal improvements at Cedar Boulevard and Smith Avenue. If, at the time of final map approval, the other developer has already provided guarantee(s) or other appropriate improvement security for the traffic signal, the project will not be required to install the traffic signal, the project will not be eligible for any traffic impact fee (TIF) reimbursement and the normal traffic impact fees will need to be paid during Building Permit issuance.

If the traffic signal is not operational prior to issuance of the first Certificate of Occupancy for any residential unit due to manufacturing or delivery delays of the long lead items for either developer, the applicant and the City Engineer shall discuss an alternative option to implement until the traffic signal is operation. The alternative option is subject to approval by the City Engineer. All costs to fund the alternative option shall be funded by the applicant.

UTIL-1: Prior to the issuance of a building permit, the applicant shall pay the applicable impact fees, including, but not limited to, the Housing Impact Fee and Transportation Impact Fee, in the amount in effect at the time. If the applicant is eligible for a Transportation Impact Fee credit as determined by the City Engineer, the Transportation

Impact Fee will be adjusted accordingly as determined by the City Engineer.

General Conditions

ssss. All proposed changes from approved exhibits shall be submitted to the Community Development Director for review and approval.

tttt. The applicant hereby agrees to defend, indemnify, and save harmless the City of Newark, its Council, boards, commissions, officers, employees and agents, from and against any and all claims, suits, actions, liability, loss, damage, expense, cost (including, without limitation, attorneys' fees, costs and fees of litigation) of every nature, kind or description, which may be brought by a third party against, or suffered or sustained by, the City of Newark, its Council, boards, commissions, officers, employees or agents to challenge or void the permit granted herein or any California Environmental Quality Act determinations related thereto.

uuuu. In the event that any person should bring an action to attack, set aside, void or annul the City's approval of this project, the applicant shall defend, indemnify and hold harmless the City and/or its agents, officers and employees from any claim, action, or proceeding against the City and/or its agents, officers and employees with counsel selected by the applicant (which shall be the same counsel used by applicant) and reasonably approved by the City. Applicant's obligation to defend, indemnify and hold harmless the City and/or its agents, officers and employees shall be subject to the City's compliance with Government Code §66474.9.

vvvv. The Conditions of Project Approval set forth herein may include certain fees, dedication requirements, reservation requirements and other exactions. Pursuant to Government Code §66020(d)(1), these Conditions constitute written notice of a statement of the amount of such fees, and a description of the dedications, reservations and other exactions. The developer is hereby further notified that the 90-day approval period in which the developer may protest these fees, dedications, reservations and other exactions, pursuant to Government Code §66020(a), has begun. If the developer fails to file a protest within this 90-day period complying with all of the requirements of §66020, the developer will be legally barred from later challenging such exactions.

EXHIBIT C



OUR TEAM

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SHEET INDEX:

Architecture

Conceptual Site Plan	SP.1
Conceptual Open Space Plan	SP.2
Conceptual Trash Staging Plan	SP.3
Conceptual Cedar Blvd Street view	SP.4
Enhanced and Standard Elevations	SP.5
Enhanced and Standard Elevations	SP.6
Plan 1 - Floor Plan	A.1
Plan 2 - Floor Plan	A.2
Plan 3 - Floor Plan	A.3
Building 100 - Conceptual Floor Plan	A.4
Building 100 - Conceptual Elevation	A.5
Building 101 - Conceptual Floor Plan	A.6
Building 101 - Conceptual Elevation	A.7
Building 200 - Conceptual Floor Plan	A.8
Building 200- Typ. Conceptual Enhanced Elevation	A.9
Building 200- Typ. Conceptual Standard Elevation	A.10
Color & Materials	A.11

Civil

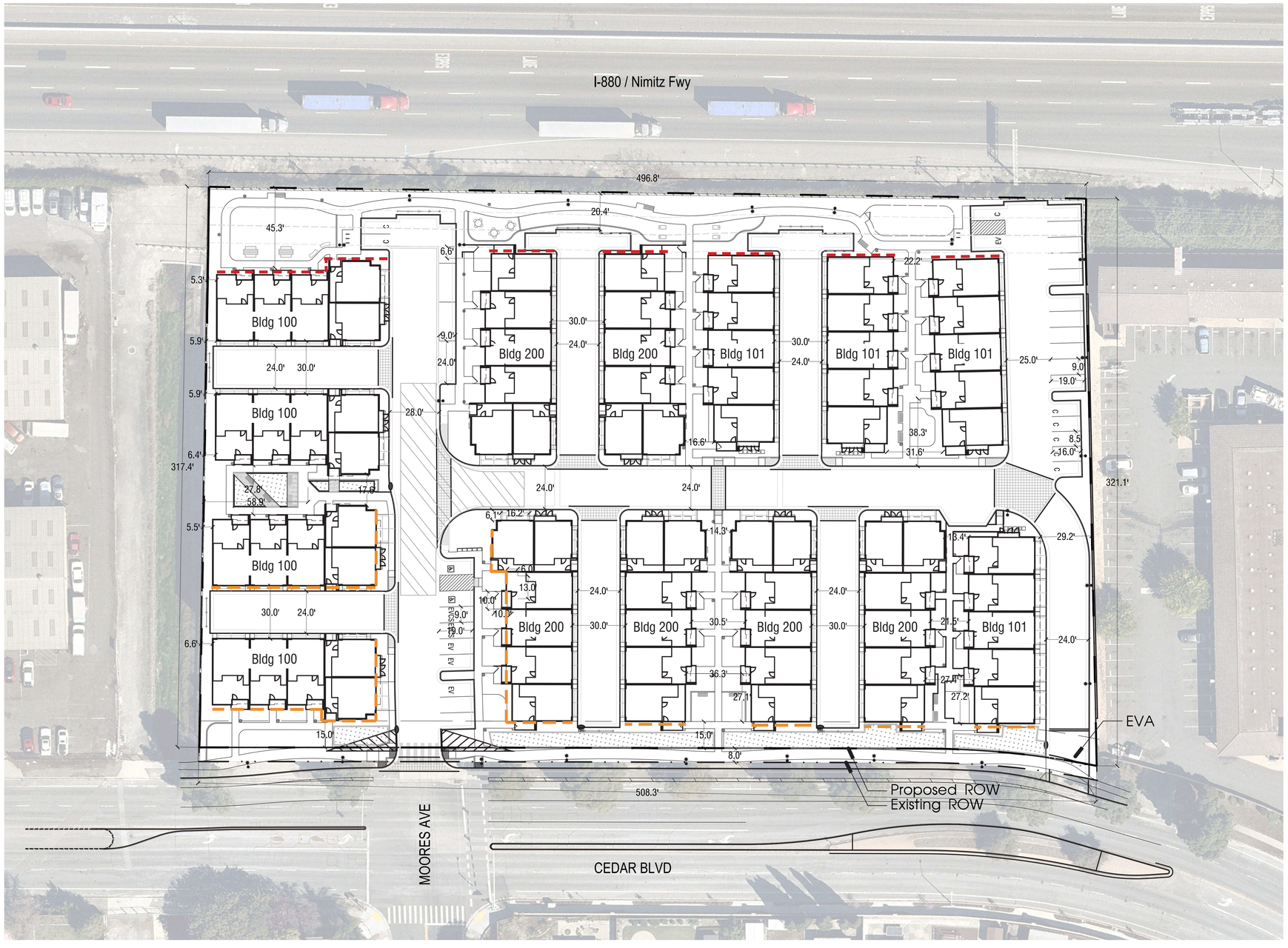
Cover Sheet and General Notes	C.1
Site Plan and Street Sections	C.2
Existing Conditions and Demolition Plan	C.3
Lotting Plan	C.4
Preliminary Grading Plan	C.5
Preliminary Utility Plan	C.6
Preliminary Stormwater Management Plan	C.7
Fire Access Plan	C.8

Landscape

Illustrative Site Plan	L.1
Pedestrian Circulation Plan	L.2
Conceptual Lighting Plan	L.3
Character Images	L.4
Typical Landscape Areas	L.5
Cedar Blvd Median	L.6
Schematic Details	L.7
Landscape Plan	L.8
Plant Palette	L.9

Site Address:
38600 Cedar Boulevard
Newark, CA 94560
Assessor Parcel Numbers
92A-2585-30-4, 92A-2585-12-1, 92A-2585-31

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Project Summary

Site Area: ± 3.44 Acres
Vacated Timber ST: ± 0.28 Acres
Total Area: ± 3.72 Acres

Total Units: 76 Homes
- (20) Plan 1, 1,334 SF - 3 Bedroom, 2.5 Bath
- (10) Plan 2, 1,612 SF - 3 Bedroom/Den, 2.5 Bath
- (46) Plan 3, 1,823 SF - 4 Bedroom, 3 Bath

Density: 22.0 Homes per Acre
Density including Timber ST: 20.4 Homes per Acre

Parking:
Required: 190 Spaces (2.5 spaces per home)
- (76) Units x 2.0 Spaces =152 Spaces
- (76) Guest x 0.5 Spaces =38 Spaces

Provided: 190 Spaces (2.5 spaces per home)
- Garage: 152 Spaces
- Head In: 26 Spaces (9' x 19')
- Parallel: 5 Spaces (8' x 19')
- Compact: 7 Spaces (8.5' x 16')

Lot Coverage: Provided - 34.8%

Maximum building height: 75'
Proposed building height: 37'

Proposed landscaped area: 48,244 SF
Uncovered parking area: 6,720 SF

Enhanced street elevation
Enhanced Elevation at Third Floor

Notes:

1. Site plan is for conceptual purposes only.
2. Site plan must be reviewed by planning, building, and fire departments for code compliance.
3. Base information per civil engineer.
4. Civil engineer to verify all setbacks and grading information
5. Building Footprints might change due to the final design elevation style.
6. Open space area is subject to change due to the balcony design of the elevation.
7. Building setbacks are measured from property lines to building foundation lines.

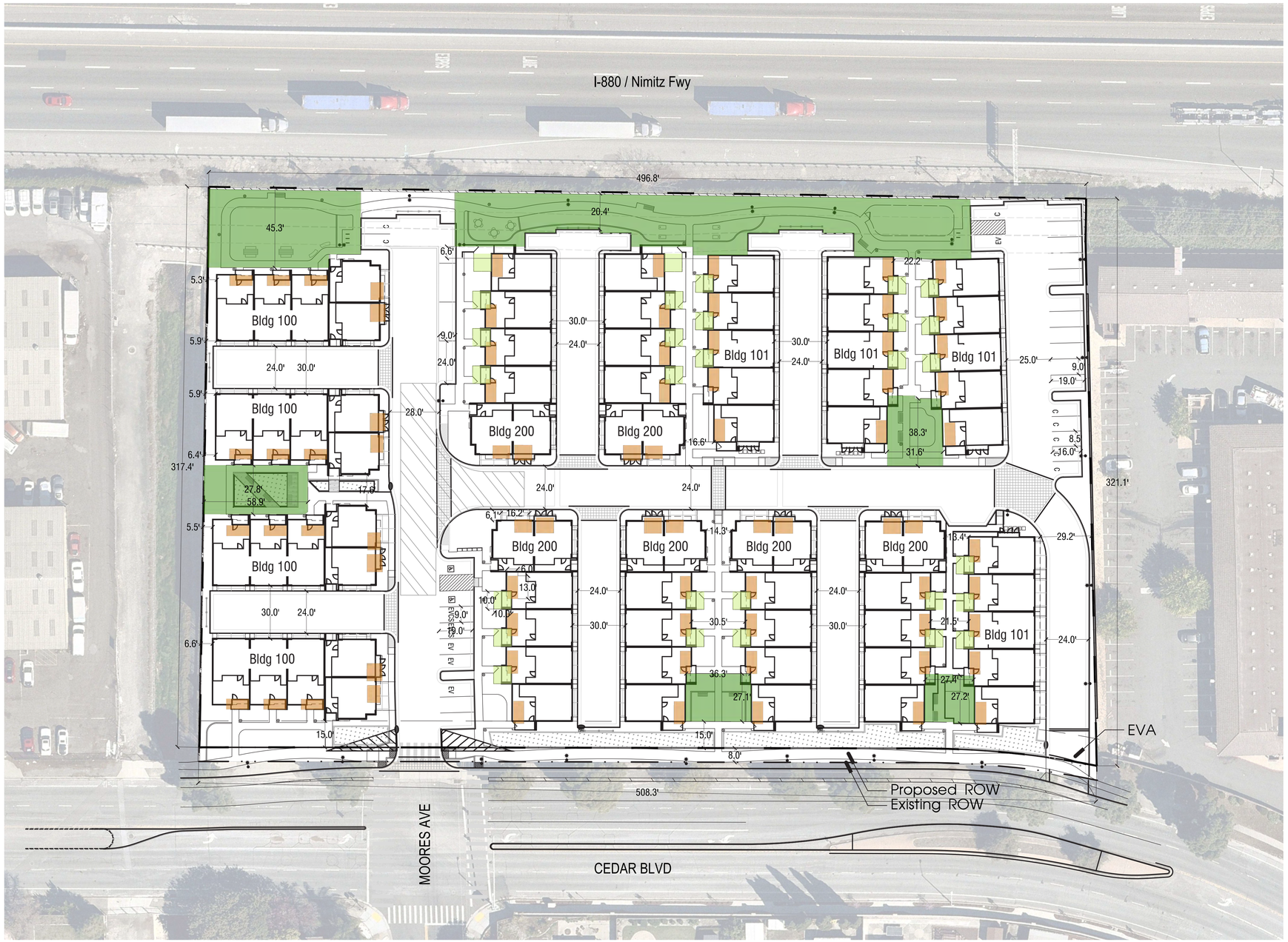
WAYMARK

CONCEPTUAL SITE PLAN
CEDAR BLVD
NEWARK,CA

SP.1
0 10 30 60
CITY SUBMITTAL

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Project Summary

Site Area: ± 3.44 Acres
Vacated Timber ST: ± 0.28 Acres
Total Area: ± 3.72 Acres

Total Units: 76 Homes
- (20) Plan 1, 1,334 SF - 3 Bedroom, 2.5 Bath
- (10) Plan 2, 1,612 SF - 3 Bedroom/Den, 2.5 Bath
- (46) Plan 3, 1,823 SF - 4 Bedroom, 3 Bath

Density: 22.0 Homes per Acre
Density including Timber ST: 20.4 Homes per Acre

Open Space:

Required: 22,800 SF Total (300 SF per home)
- Common: 11,400 SF (150 SF per home)
- Private: 11,400 SF (150 SF per home)

Provided: 22,803 SF Total (300 SF per home)
- Common: 16,808 SF (20' Min. Dimension)
- Private: 5,995 SF
  - Deck: 5,995 SF (6' Min. 2nd Floor Dimension)
  - Patio: 4,082 SF (Not counted towards required open space)

Lot Coverage: Provided - 34.8%

Notes:

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3. Base information per civil engineer.
4. Civil engineer to verify all setbacks and grading information
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CONCEPTUAL OPEN SPACE PLAN

CEDAR BLVD

NEWARK,CA

WAYMARK

SP.2

0 10 30 60

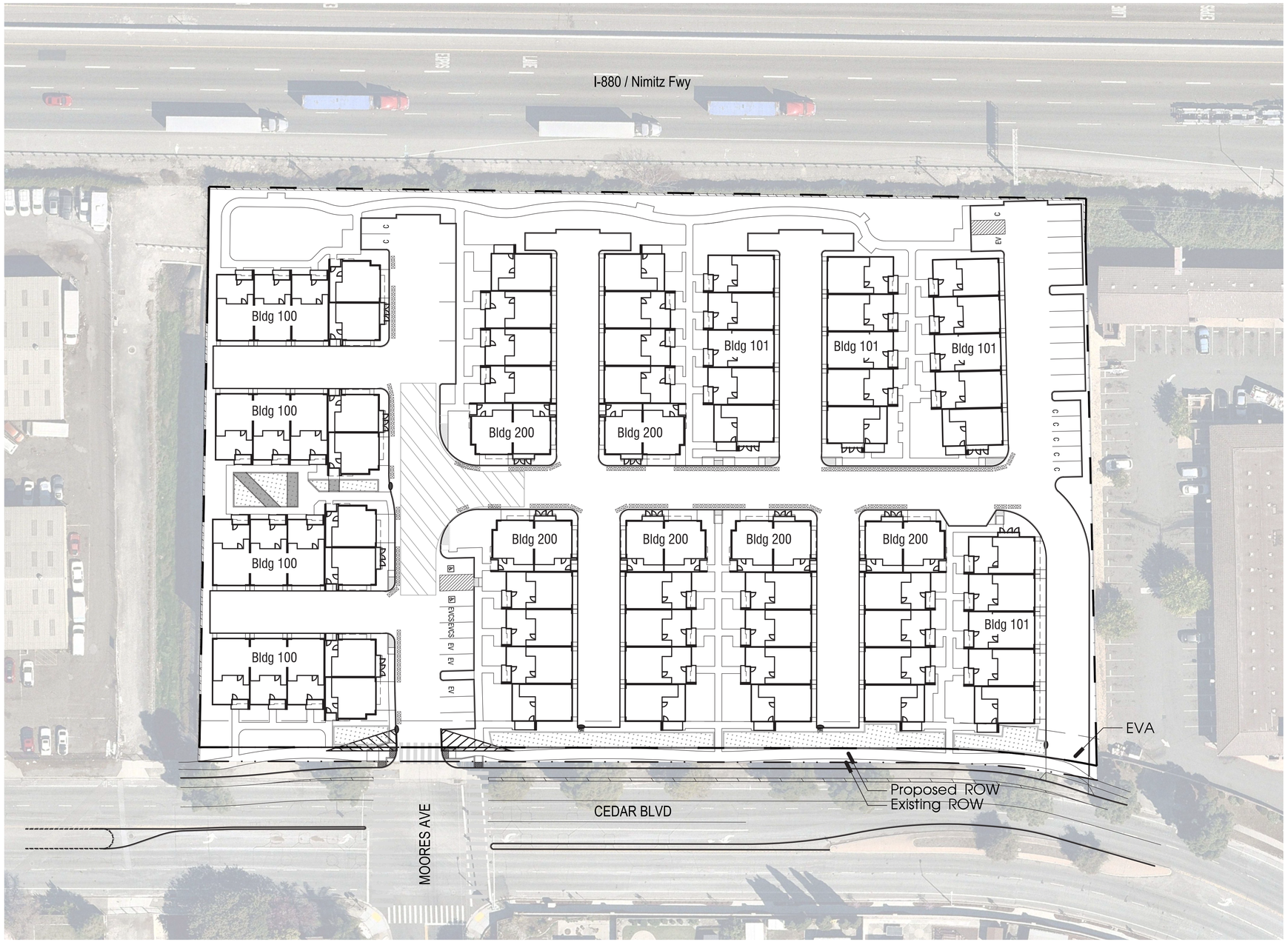
CITY SUBMITTAL

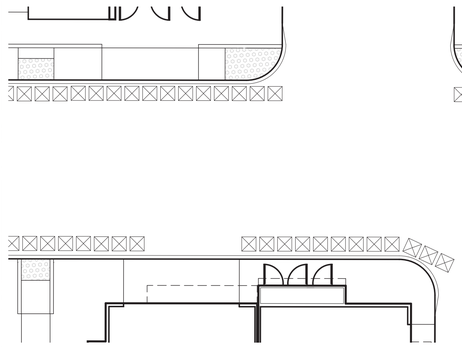
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Trash Staging Enlargement

- ☒ **Black (Landfill):** 64-gallon
- ☒ **Blue (Recycle):** 64-gallon
- ☒ **Green (Organics):** 64-gallon

Notes:

1. Site plan is for conceptual purposes only.
2. Site plan must be reviewed by planning, building, and fire departments for code compliance.
3. Base information per civil engineer.
4. Civil engineer to verify all setbacks and grading information
5. Building Footprints might change due to the final design elevation style.
6. Open space area is subject to change due to the balcony design of the elevation.
7. Building setbacks are measured from property lines to building foundation lines.

CONCEPTUAL TRASH STAGING PLAN

CEDAR BLVD

NEWARK,CA

WAYMARK

SP.3

0 10 30 60

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BUILDING TYPE 100
"A" ELEVATION
COLOR SCHEME 1

BUILDING TYPE 200
"A" ENHANCED ELEVATION
COLOR SCHEME 2

BUILDING TYPE 200
"B" REVERSED ENHANCED ELEVATION
COLOR SCHEME 1

BUILDING TYPE 200
"C" ENHANCED ELEVATION
COLOR SCHEME 3

BUILDING TYPE 200
"A" REVERSED ENHANCED ELEVATION
COLOR SCHEME 1

BUILDING TYPE 101
"B" ELEVATION
COLOR SCHEME 2

Conceptual Stucco Low Wall
w/ Brick Cap

(Final design to be provided by landscape architect at design development/CD phase)



CONCEPTUAL CEDAR BLVD STREET VIEW

CEDAR BLVD

NEWARK,CA

WAYMARK

SP.4

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BUILDING TYPE 200
ENHANCED ELEVATION "A"
COLOR SCHEME 2



BUILDING TYPE 200
ENHANCED ELEVATION "B" REVERSED
COLOR SCHEME 1



BUILDING TYPE 200
ENHANCED ELEVATION "C"
COLOR SCHEME 3



BUILDING TYPE 200
STANDARD ELEVATION "A"
COLOR SCHEME 2



BUILDING TYPE 200
STANDARD ELEVATION "A"
COLOR SCHEME 2



BUILDING TYPE 200
STANDARD ELEVATION "A"
COLOR SCHEME 2

ENHANCED AND STANDARD ELEVATIONS

CEDAR BLVD

NEWARK,CA

WAYMARK

SP.5

0 4 8 16

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BUILDING TYPE 100
THIRD FLOOR ENHANCED ELEVATION
COLOR SCHEME 3



BUILDING TYPE 101
THIRD FLOOR ENHANCED ELEVATION
COLOR SCHEME 2



BUILDING TYPE 200
THIRD FLOOR ENHANCED ELEVATION
COLOR SCHEME 2



BUILDING TYPE 100
STANDARD ELEVATION
COLOR SCHEME 3



BUILDING TYPE 101
STANDARD ELEVATION
COLOR SCHEME 2



BUILDING TYPE 200
STANDARD ELEVATION
COLOR SCHEME 2

3RD FLOOR ENHANCED ELEVATIONS AND STANDARD ELEVATIONS

CEDAR BLVD

NEWARK,CA

WAYMARK WM

SP.6

0 4 8 16

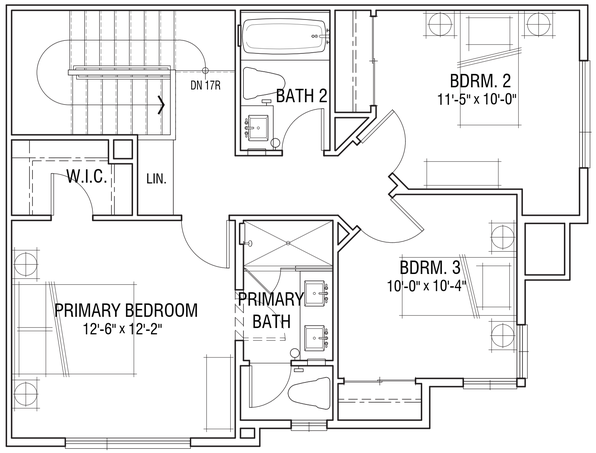
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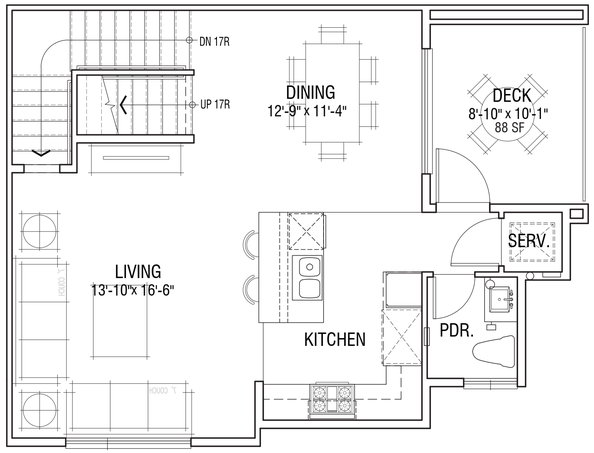
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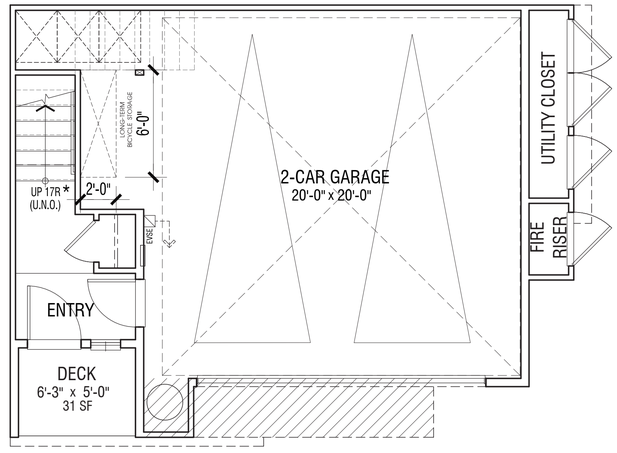
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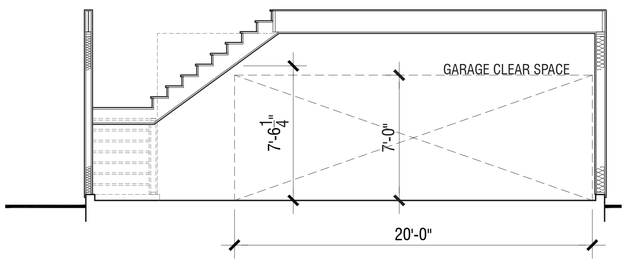
THIRD FLOOR



SECOND FLOOR



FIRST FLOOR



GARAGE SECTION DIAGRAM

PLAN 1
- ± 1,390 SF
- 3 BEDROOM | 2.5 BATH
- 2 CAR GARAGE

PLAN 1 - FLOOR PLAN

CEDAR BLVD

NEWARK,CA

WAYMARK WM

A.1

0 2 4 8

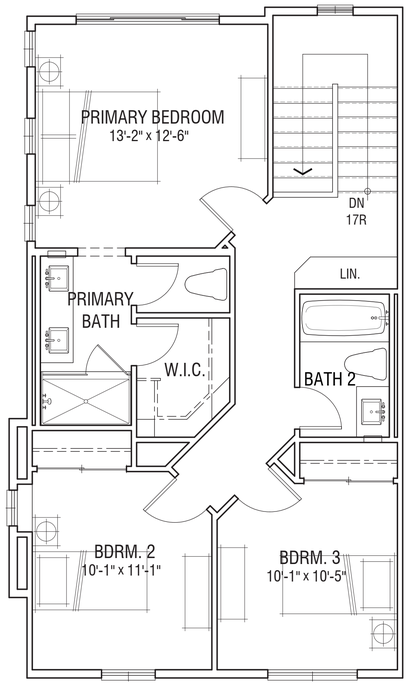
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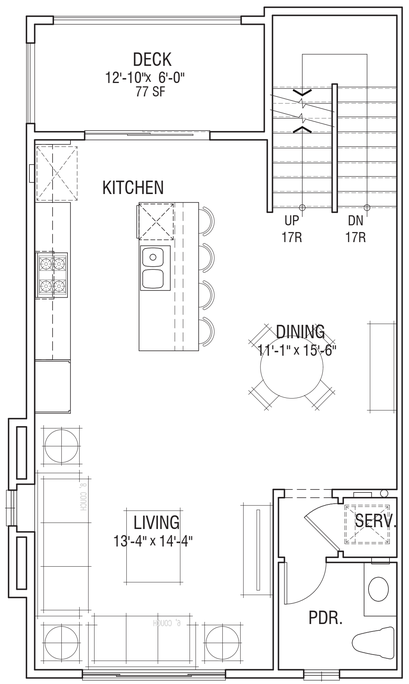
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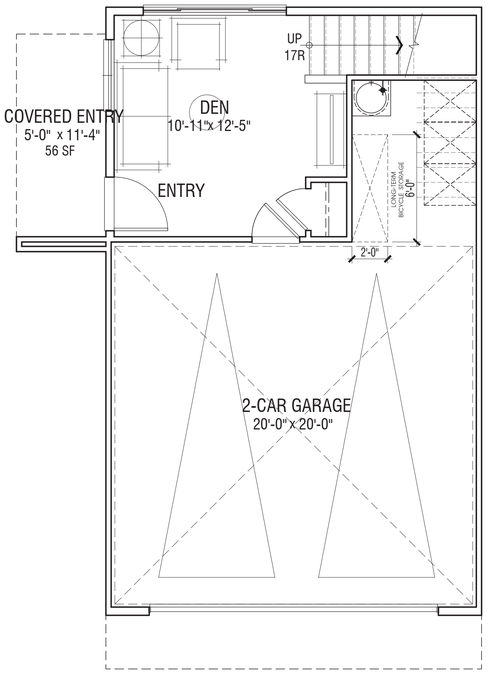
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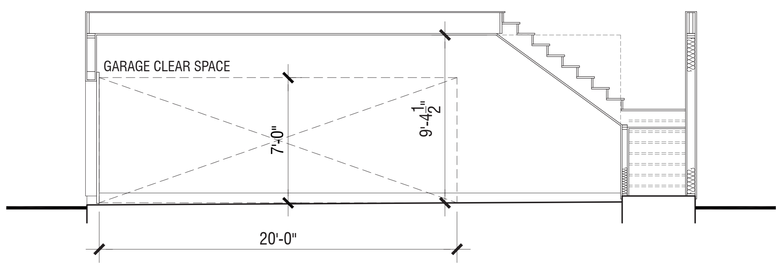
THIRD FLOOR



SECOND FLOOR



FIRST FLOOR



GARAGE SECTION DIAGRAM

PLAN 2
- ± 1,611 SF
- 3 BEDROOM | 2.5 BATH
- DEN
- 2 CAR GARAGE

PLAN 2 - FLOOR PLAN

CEDAR BLVD

NEWARK,CA

A.2

0 2 4 8

CITY SUBMITTAL

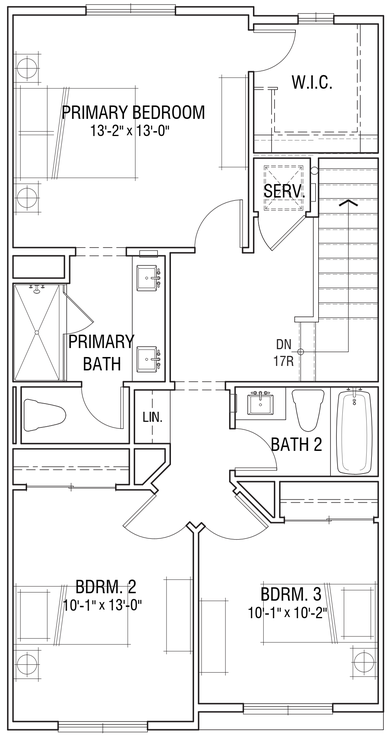
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WAYMARK

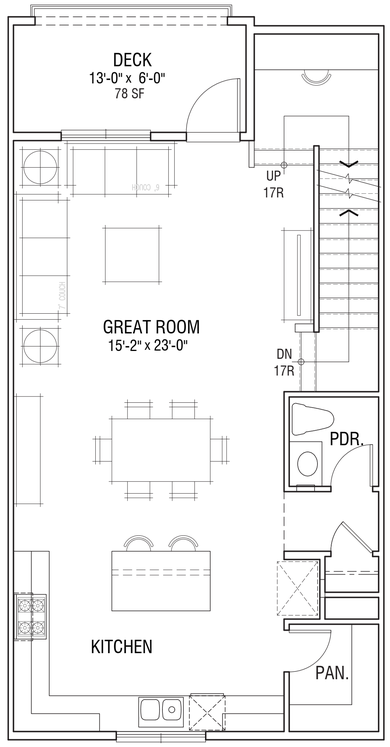
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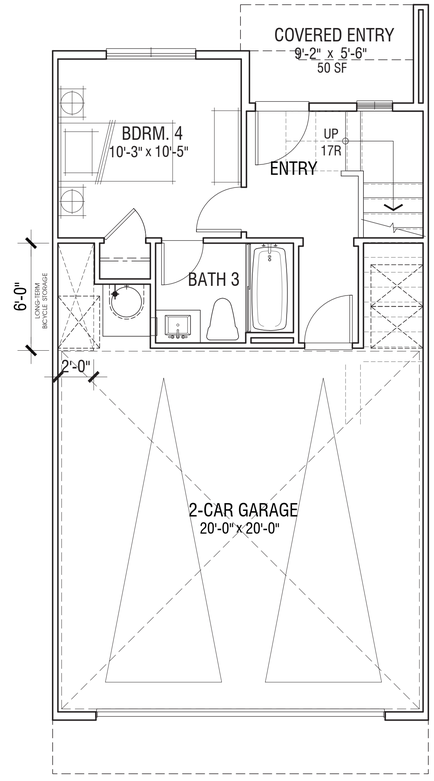
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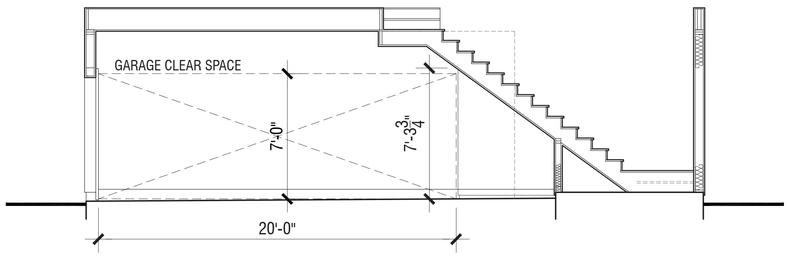
THIRD FLOOR



SECOND FLOOR



FIRST FLOOR



GARAGE SECTION DIAGRAM

PLAN 3
- ± 1,611 SF
- 4 BEDROOM | 3.5 BATH
- 2 CAR GARAGE

PLAN 3 - FLOOR PLAN

CEDAR BLVD

NEWARK,CA

A.3

0 2 4 8

CITY SUBMITTAL

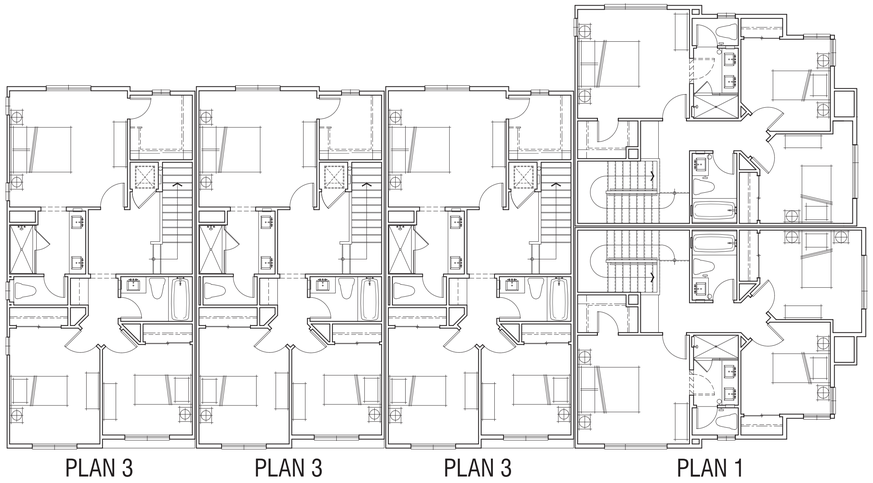
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WAYMARK

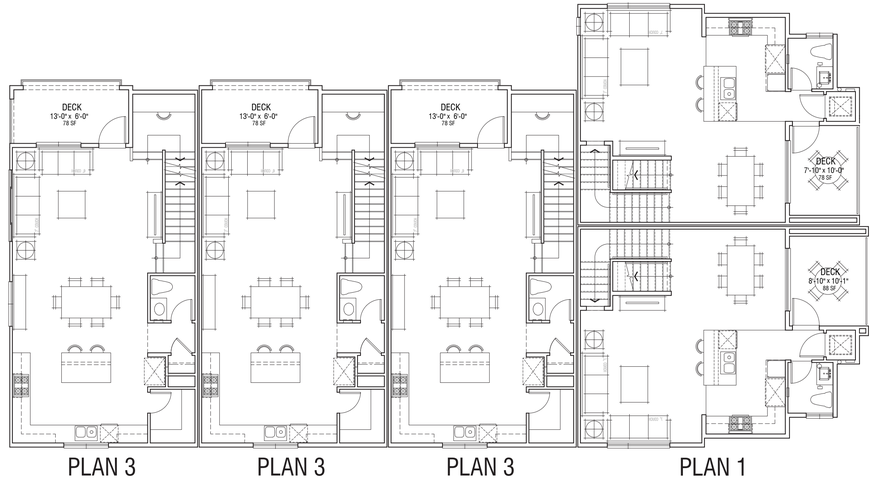
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WHA.

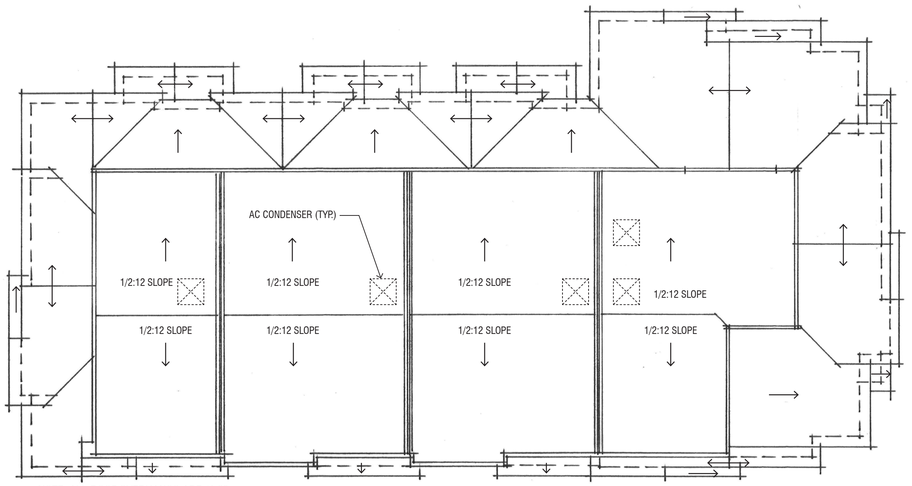
ORANGE COUNTY . LOS ANGELES . BAY AREA . SACRAMENTO



Third Floor

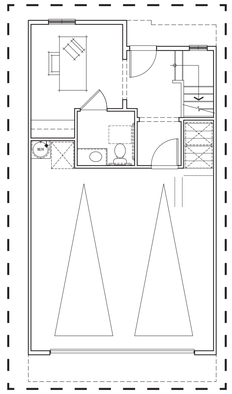


Second Floor



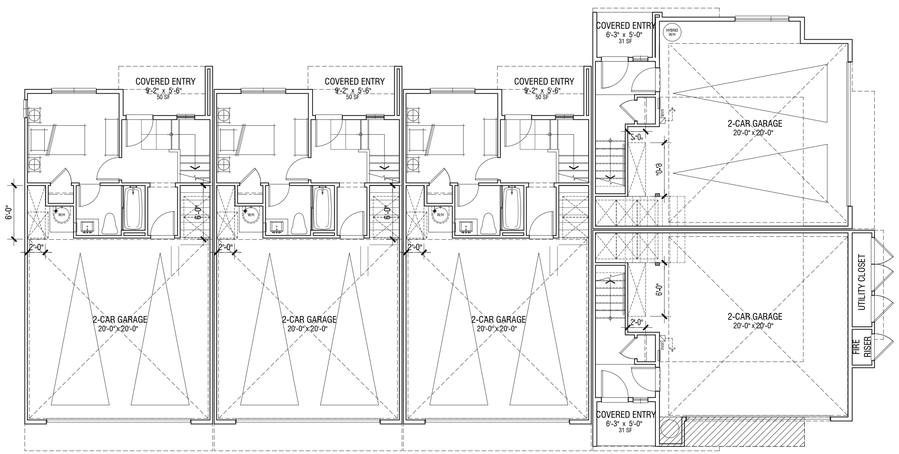
NOTE: ALL ROOF OVERHANGS ARE 1'-0"
ROOF PITCH 4:12 U.N.O.

ROOF



ADA Opt.

PLAN 3



First Floor

Occupancy:	R2
Construction:	VB
Sprinkler System:	NFPA13

FLOOR PLANS AND ROOF PLANS TO BE FURTHER REFINED TO REFLECT SPANISH ELEVATION STYLE

BUILDING 100 - CONCEPTUAL FLOOR PLAN

CEDAR BLVD

NEWARK,CA

WAYMARK WM

A.4

0 4 8 16

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Left



Front



Right



Rear

SPANISH STYLE ELEMENTS:

Roof : Parapet Flat Roof and Low-Pitched Roof (4:12-5:12) with Concrete "S" Tile

Walls : Stucco

Trim: Stucco over Foam 1" in depth

Fascia : Wood

Accents : 42" High Wood Plank Railing, Tile Gable detail, Decorative Porch Light Fixture, Brick cap at select low walls.

Entry: Decorative Entry Door - Style Specific

Garage: Decorative roll up Garage Door - Style Specific

Note: Artist's Conception; Colors, Materials and Application May Vary.

Color Scheme #3

BUILDING 100- TYP. CONCEPTUAL STANDARD ELEVATION

CEDAR BLVD

NEWARK,CA

WAYMARK WM

A.5

0 4 8 16

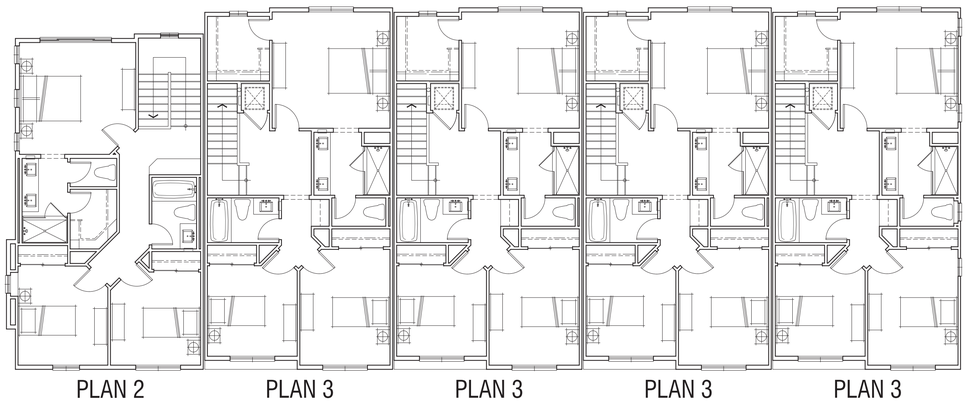
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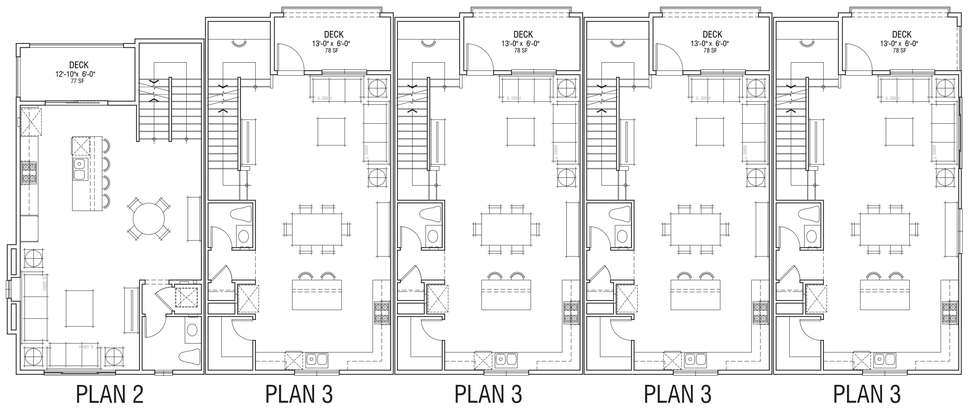
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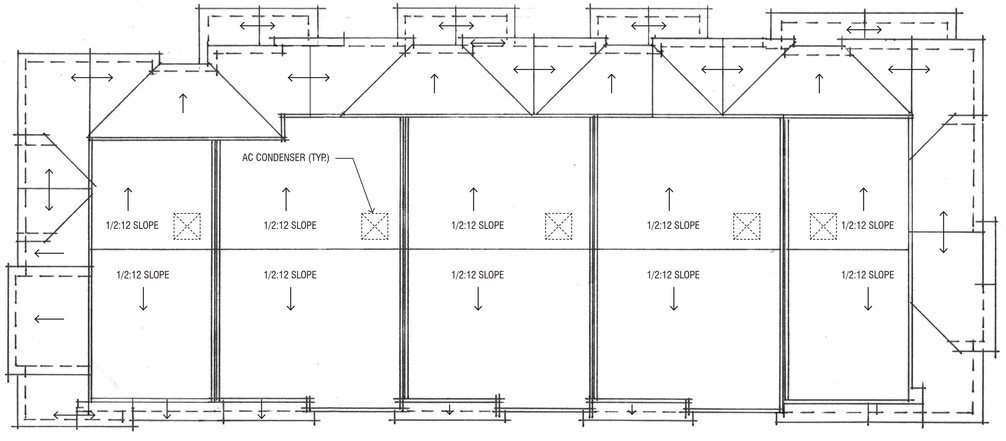
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Third Floor

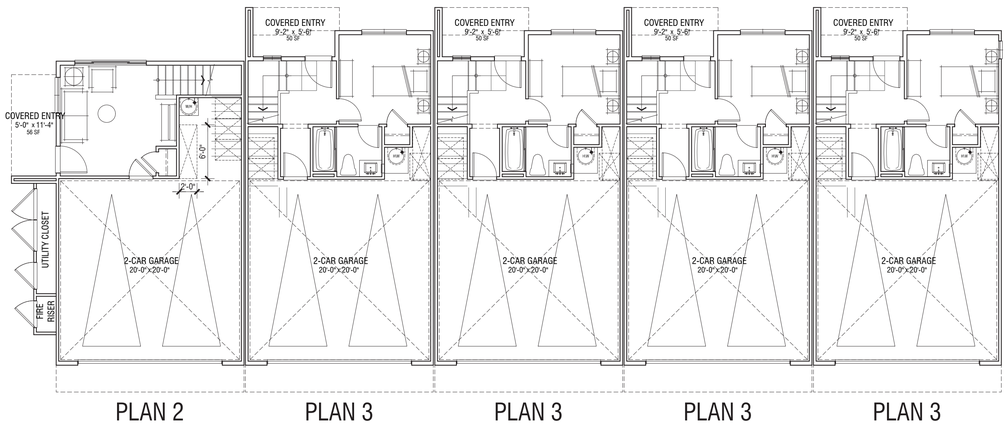


Second Floor



NOTE: ALL ROOF OVERHANGS ARE 1'-0"
ROOF PITCH 4:12 U.N.O.

ROOF



First Floor

Occupancy: R2

Construction: VB

Sprinkler System: NFPA13

FLOOR PLANS AND ROOF PLANS TO BE FURTHER REFINED TO REFLECT SPANISH ELEVATION STYLE

BUILDING 101 - CONCEPTUAL FLOOR PLAN

CEDAR BLVD

NEWARK,CA

WAYMARK

A.6

0 4 8 16

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Left



Front



Right



Rear

SPANISH STYLE ELEMENTS:

Roof : Parapet Flat Roof and Low-Pitched Roof (4:12-5:12) with Concrete “S” Tile

Walls : Stucco

Trim: Stucco over Foam 1” in depth

Fascia : Wood

Accents : 42” High Wood Plank Railing, Tile Gable detail, Decorative Porch Light Fixture, Brick cap at select low walls.

Entry: Decorative Entry Door - Style Specific

Garage: Decorative roll up Garage Door - Style Specific

Note: Artist's Conception; Colors, Materials and Application May Vary.

Color Scheme #2

BUILDING 101- TYP. CONCEPTUAL STANDARD ELEVATION

CEDAR BLVD

NEWARK,CA

WAYMARK WM

A.7

0 4 8 16

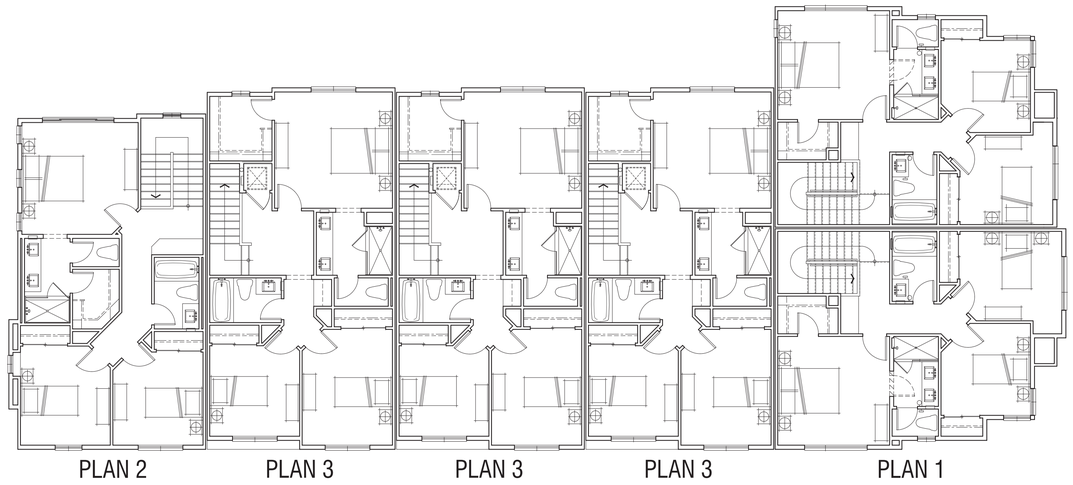
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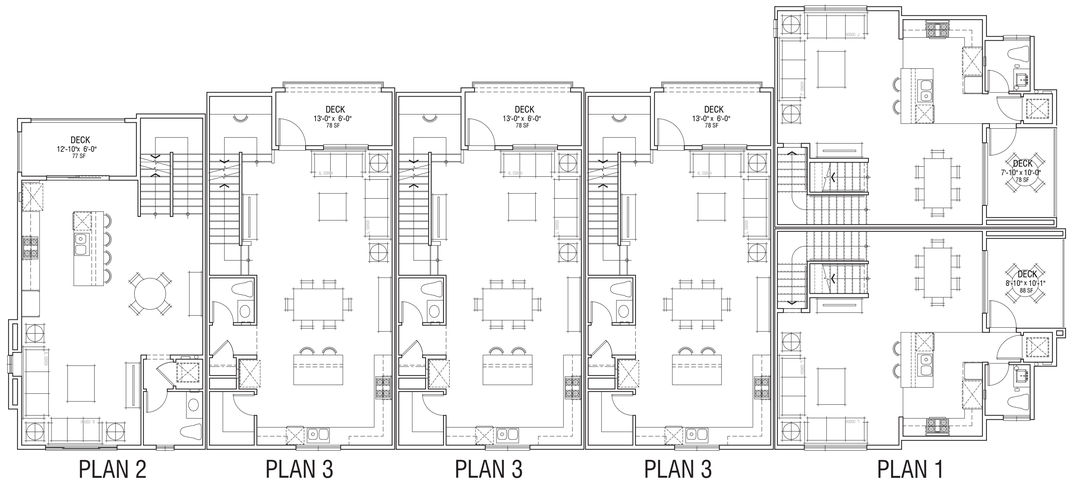
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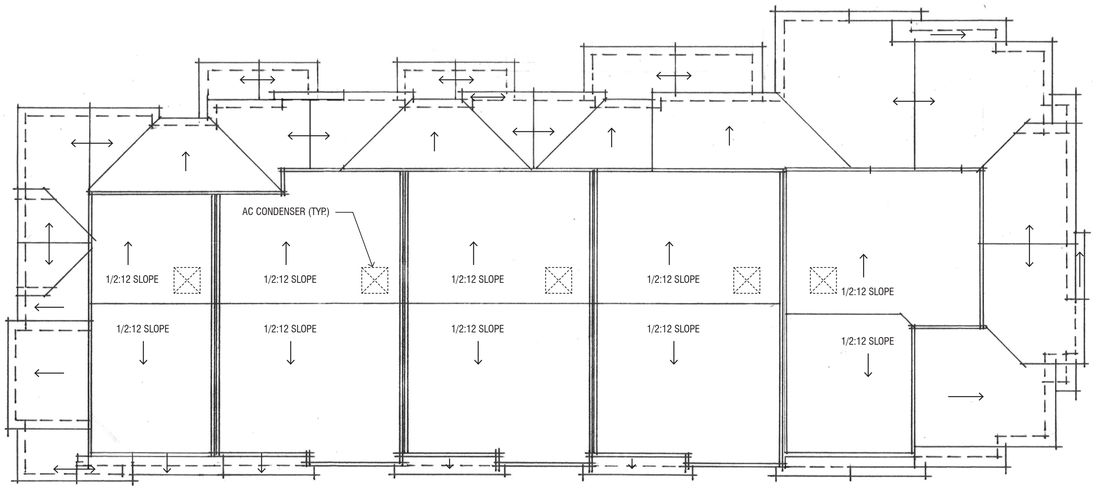
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Third Floor

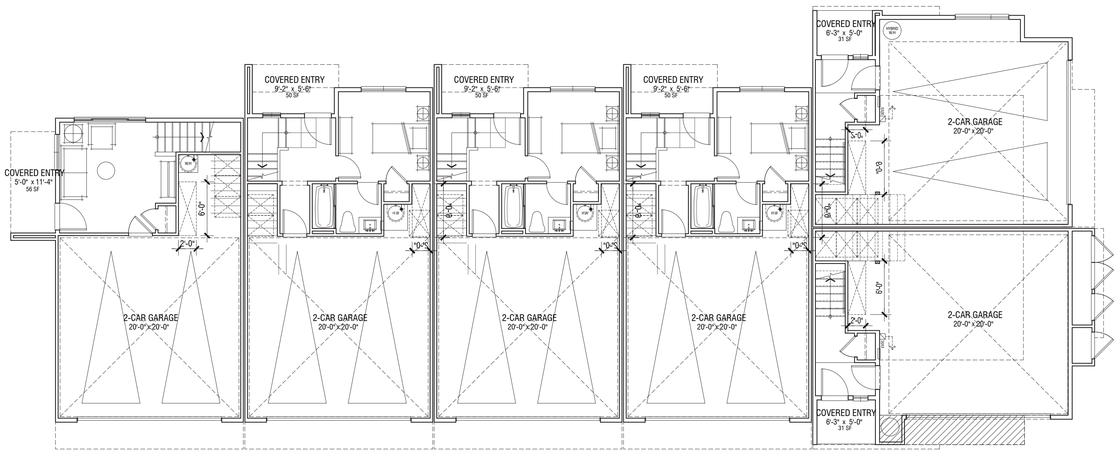


Second Floor



NOTE: ALL ROOF OVERHANGS ARE 1'-0"
ROOF PITCH 4:12 U.N.O.

ROOF



First Floor

Occupancy:	R2
Construction:	VB
Sprinkler System:	NFPA13

FLOOR PLANS AND ROOF PLANS TO BE FURTHER REFINED TO REFLECT SPANISH ELEVATION STYLE

BUILDING 200 - CONCEPTUAL FLOOR PLAN

CEDAR BLVD

NEWARK,CA

WAYMARK

A.8

0 4 8 16

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Left



Front

SPANISH STYLE ELEMENTS:

Roof : Parapet Flat Roof and Low-Pitched Roof (4:12-5:12) with Concrete "S" Tile

Walls : Stucco

Trim: Stucco over Foam 1" in depth

Fascia : Wood

Accents : 42" High Wood Plank Railing, Tile Gable detail, Decorative Porch Light Fixture, Brick cap at select low walls.

Entry: Decorative Entry Door - Style Specific

Garage: Decorative roll up Garage Door - Style Specific



Note: Artist's Conception; Colors, Materials and Application May Vary.

Right



Color Scheme #1

Rear

BUILDING 200- TYP. CONCEPTUAL ENHANCED ELEVATION

CEDAR BLVD

NEWARK,CA

WAYMARK WM

A.9

0 4 8 16

CITY SUBMITTAL

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ARCHITECTS . PLANNERS . DESIGNERS

WHA.

ORANGE COUNTY . LOS ANGELES . BAY AREA . SACRAMENTO



Left



Front

SPANISH STYLE ELEMENTS:

Roof : Parapet Flat Roof and Low-Pitched Roof (4:12-5:12) with Concrete “S” Tile

Walls : Stucco

Trim: Stucco over Foam 1” in depth

Fascia : Wood

Accents : 42” High Wood Plank Railing, Tile Gable detail, Decorative Porch Light Fixture, Brick cap at select low walls.

Entry: Decorative Entry Door - Style Specific

Garage: Decorative roll up Garage Door - Style Specific



Note: Artist's Conception; Colors, Materials and Application May Vary.

Right



Color Scheme #1

Rear

BUILDING 200- TYP. CONCEPTUAL STANDARD ELEVATION

CEDAR BLVD

NEWARK,CA

A.10

0 4 8 16

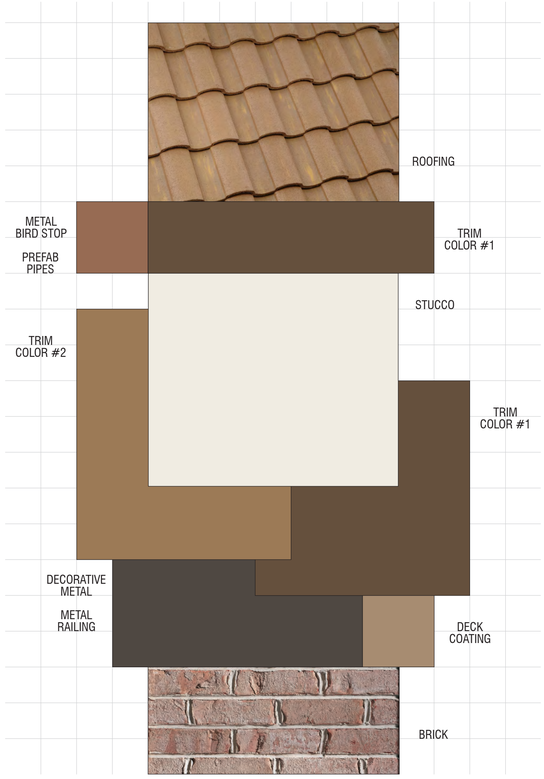
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ARCHITECTS . PLANNERS . DESIGNERS

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ORANGE COUNTY . LOS ANGELES . BAY AREA . SACRAMENTO



CEDAR BOULEVARD

Newark, California

WAYMARK

June 16, 2023 | 2022168

SCHEME 1

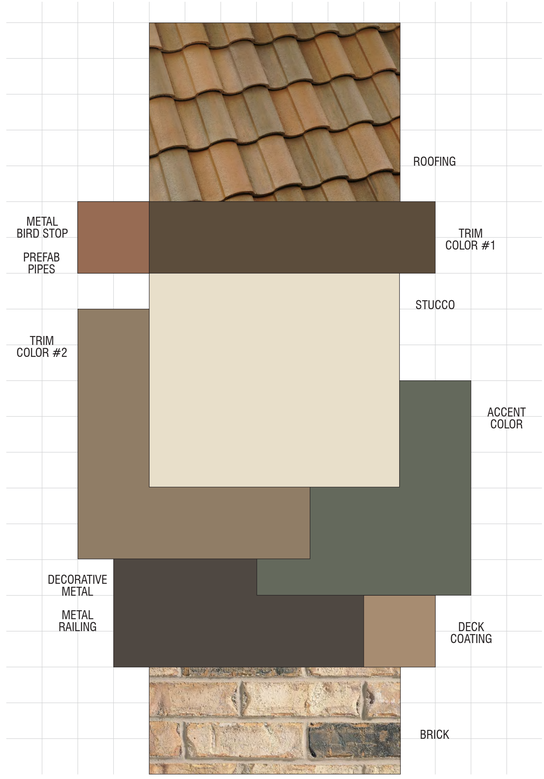
All Buildings

ARCHITECTS . PLANNERS . DESIGNERS

Material	Color	Manufacturer
Roofing: Concrete 'S' Tile	3532 Weathered Terracotta Ref: .24 Emi: .88 A.SRI: 26 CRRC: 0918-0014	Eagle (or approved equal)
Metal Bird Stop @ Concrete 'S' Tile *(factory finish)*	Terracotta	Eagle (or approved equal)
Half Round Gutters & Round Downspouts *(factory finish)*	Beaver Brown	Custom-Bilt Metals (or approved equal)
Vinyl Windows *(factory finish)*	Almond	Champion (or approved equal)
Brick *(standard raked joints, half running bond pattern)*	Laredo Queen-size	U.S. Brick (or approved equal)
Grout @ Brick & Stone	Mac Oatmeal	Orco (or approved equal)
Stucco Color *(16/20 sand finish)*	Match Sherwin Williams SW 7551 Greek Villa	Omega (or approved equal)
Trim Color #1 *(applied to):* Barge Boards, Eaves, Fascia, Shutters, Unit Doors	SW 6104 Kaffee	Sherwin Williams (or approved equal)
Trim Color #2 *(applied to):* Garage Doors, Stucco Trim, Utility Doors	SW 6124 Cardboard	Sherwin Williams (or approved equal)
Prefab Pipes @ Gables	SW 7705 Wheat Penny	Sherwin Williams (or approved equal)
Decorative Metal & Metal Railing	SW 7020 Black Fox	Sherwin Williams (or approved equal)
Garage Door Weatherstrip *(factory finish)*	Match Garage Door Color	Wayne Dalton (or approved equal)
Deck Coating	GS-88 Hickory	Pli-Dek (or approved equal)

NOTE: Notify WHA if any variation occurs between these schemes and the construction documents prior to purchase. Contact Donna Aldrich (949) 250-0607.

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CEDAR BOULEVARD

Newark, California

WAYMARK

June 16, 2023 | 2022168

SCHEME 2

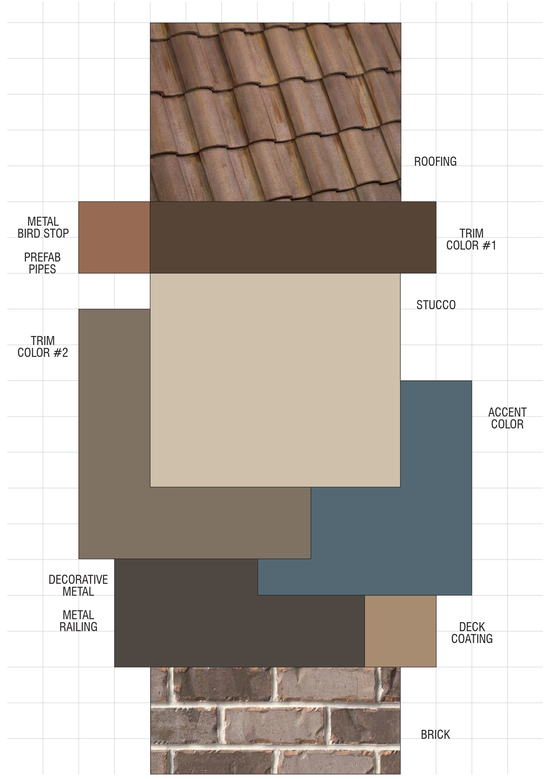
All Buildings

ARCHITECTS . PLANNERS . DESIGNERS

Material	Color	Manufacturer
Roofing: Concrete 'S' Tile	3605 San Benito Blend Ref: .20 Emi: .92 A.SRI: 21 CRRC: 0918-0031	Eagle (or approved equal)
Metal Bird Stop @ Concrete 'S' Tile *(factory finish)*	Terracotta	Eagle (or approved equal)
Half Round Gutters & Round Downspouts *(factory finish)*	Beaver Brown	Custom-Bilt Metals (or approved equal)
Vinyl Windows *(factory finish)*	Almond	Champion (or approved equal)
Brick *(standard raked joints, half running bond pattern)*	Alamo Queen-size	U.S. Brick (or approved equal)
Grout @ Brick & Stone	Surf	Orco (or approved equal)
Stucco Color *(16/20 sand finish)*	Match Sherwin Williams SW 7564 Polar Bear	Omega (or approved equal)
Trim Color #1 *(applied to):* Barge Boards, Eaves, Fascia	SW 7034 Status Bronze	Sherwin Williams (or approved equal)
Trim Color #2 *(applied to):* Garage Doors, Stucco Trim, Utility Doors	SW 7550 Resort Tan	Sherwin Williams (or approved equal)
Accent Color*(applied to):* Shutters, Unit Doors	SW 6187 Rosemary	Sherwin Williams (or approved equal)
Prefab Pipes @ Gables	SW 7705 Wheat Penny	Sherwin Williams (or approved equal)
Decorative Metal & Metal Railing	SW 7020 Black Fox	Sherwin Williams (or approved equal)
Garage Door Weatherstrip *(factory finish)*	Match Garage Door Color	Wayne Dalton (or approved equal)
Deck Coating	GS-88 Hickory	Pli-Dek (or approved equal)

NOTE: Notify WHA if any variation occurs between these schemes and the construction documents prior to purchase.

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CEDAR BOULEVARD

Newark, California

WAYMARK

June 16, 2023 | 2022168

SCHEME 3

All Buildings

ARCHITECTS . PLANNERS . DESIGNERS

Material	Color	Manufacturer
Roofing: Concrete 'S' Tile	3702 Calabar Blend Ref: .18 Emi: .88 A.SRI: 20 CRRC: 0918-0063	Eagle (or approved equal)
Metal Bird Stop @ Concrete 'S' Tile *(factory finish)*	Terracotta	Eagle (or approved equal)
Half Round Gutters & Round Downspouts *(factory finish)*	Beaver Brown	Custom-Bilt Metals (or approved equal)
Vinyl Windows *(factory finish)*	Almond	Champion (or approved equal)
Brick *(standard raked joints, half running bond pattern)*	Mount Rushmore Queen-size	U.S. Brick (or approved equal)
Grout @ Brick & Stone	Khaki	Orco (or approved equal)
Stucco Color *(16/20 sand finish)*	Match Sherwin Williams SW 7532 Urban Putty	Omega (or approved equal)
Trim Color #1 *(applied to):* Barge Boards, Eaves, Fascia	SW 7027 Hickory Smoke	Sherwin Williams (or approved equal)
Trim Color #2 *(applied to):* Garage Doors, Stucco Trim, Utility Doors	SW 0038 Library Pewter	Sherwin Williams (or approved equal)
Accent Color*(applied to):* Shutters, Unit Doors	SW 9141 Waterloo	Sherwin Williams (or approved equal)
Prefab Pipes @ Gables	SW 7705 Wheat Penny	Sherwin Williams (or approved equal)
Decorative Metal & Metal Railing	SW 7020 Black Fox	Sherwin Williams (or approved equal)
Garage Door Weatherstrip *(factory finish)*	Match Garage Door Color	Wayne Dalton (or approved equal)
Deck Coating	GS-88 Hickory	Pli-Dek (or approved equal)

NOTE: Notify WHA if any variation occurs between these schemes and the construction documents prior to purchase.

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WAYMARK

COLOR & MATERIALS

CEDAR BLVD

NEWARK,CA

A.11

0 4 8 16

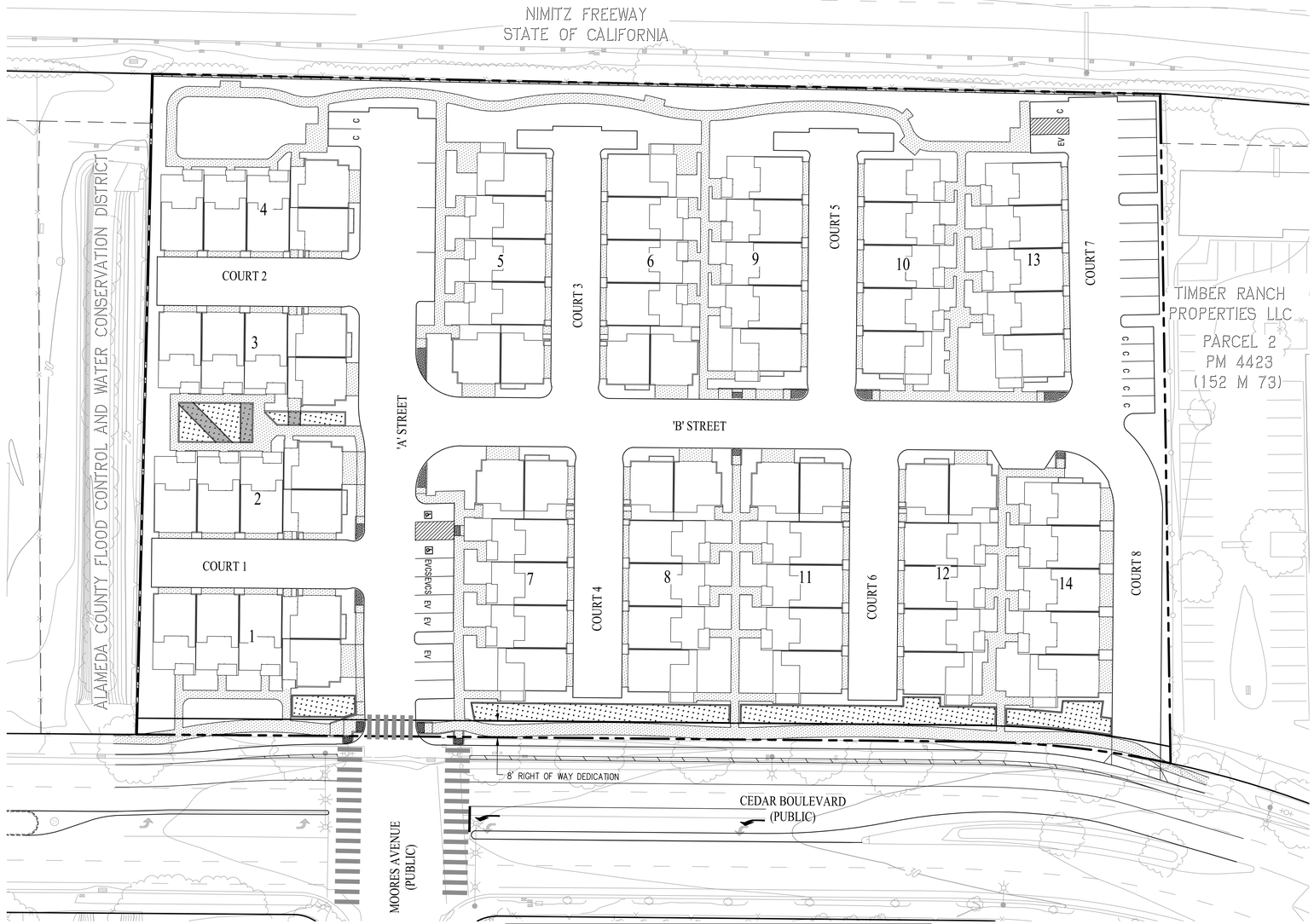
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ARCHITECTS . PLANNERS . DESIGNERS

WHA.

ORANGE COUNTY . LOS ANGELES . BAY AREA . SACRAMENTO



GENERAL NOTES:

1. OWNER: CEDAR BLVD TOWNHOMES LLC
3223 CROW CANYON ROAD, SUITE 200
SAN RAMON, CA 94583
CONTACT: BRIAN STEELE
(925) 321-6327

2. CIVIL ENGINEER: CARLSON, BARBEE & GIBSON, INC.
2633 CAMINO RAMON, SUITE 350
SAN RAMON, CA 94583
CONTACT: JUSTIN DEKNOBLOUGH, R.C.E. 79604
(925) 866-0322

3. SOILS ENGINEER: ENGEO
2010 CROW CANYON PLACE SUITE 250
SAN RAMON, CA 94583
CONTACT: JERRY CHEN
(310) 562-6176

4. EXISTING USE: INDUSTRIAL

5. TOTAL SITE AREA: 3.72± ACRES

6. NUMBER OF UNITS: 76 UNITS

7. THIS PROPERTY LIES IN THE JURISDICTION OF:
FIRE PROTECTION
ALAMEDA COUNTY FIRE DEPARTMENT

DOMESTIC WATER
ALAMEDA COUNTY WATER DISTRICT

SANITARY SEWER
UNION SANITARY DISTRICT

STORM DRAIN WITHIN PUBLIC STREETS
CITY OF NEWARK

STORM DRAIN WITHIN PRIVATE PLACES, WAYS & COURTS
FUTURE HOMEOWNERS ASSOCIATION

GAS & ELECTRIC SERVICE
PACIFIC GAS & ELECTRIC

TELEPHONE SERVICE
AT&T

8. ROADWAYS AND PARCELS: UNLESS OTHERWISE NOTED (I.E. PUBLIC) ALL ROADWAYS AND PARCELS ARE TO BE MAINTAINED BY THE HOA ESTABLISHED WITH THE PROJECT.

9. PROPOSED LAND USE SUMMARY: SEE TABLE (THIS SHEET)

10. ASSESSORS PARCEL NUMBERS: 092A-2585-012-01
092A-2585-031

11. PROPERTY DESCRIPTION: PARCEL 1 OF PARCEL MAP 4423, FILED MARCH 27, 1985, IN BOOK 152 OF PARCEL MAPS, PAGE 73 AND A PORTION OF LOT 2, BLOCK 99, FILED JULY 15, 1911, IN MAP BOOK 26, PAGE 37, AND A PORTION OF PARCEL II AS DESCRIBED IN THE DIRECTORS DEED OF THE STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS TO THE CITY OF NEWARK, RECORDED MARCH 3, 1960 IN REEL 38, IMAGE 505, ALAMEDA COUNTY RECORDS

12. BENCHMARK: CITY OF NEWARK BENCHMARK (MOWRY-CEDAR), AT THE INTERSECTION OF MOWRY AVENUE AND CEDAR BOULEVARD, HAVING A NGVD 29 ELEVATION OF 23.826 FEET.

13. TOPOGRAPHY (TENTATIVE): PREPARED BY GEOMAPS INC. DATED JUNE 6, 2022

14. FLOOD ZONE: ZONE X AND AE
FLOOD INSURANCE RATE MAP (FIRM)
COMMUNITY PANEL NUMBER: 06001C0442G, 06001C0444G
ELEV 31 (NAVD 88)

15. LOT DIMENSIONS AND AREAS ARE APPROXIMATE AND ARE ROUNDED TO THE NEAREST WHOLE NUMBER. EXACT DIMENSIONS AND AREAS WILL BE PROVIDED ON THE FINAL MAP.

16. ALL BUILDINGS SHALL BE EQUIPPED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEMS AS REQUIRED BY CHAPTER 15.09.020.G OF THE NEWARK MUNICIPAL CODE.

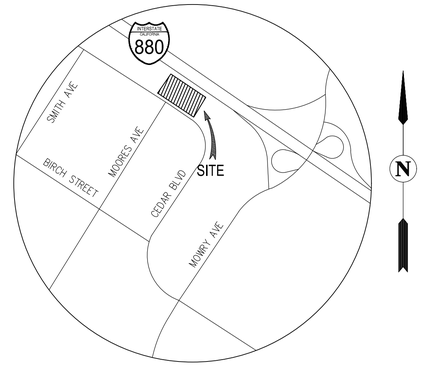
17. GRADING SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE DURING FINAL DESIGN.

18. ALL UTILITIES SHOWN ARE PRELIMINARY AND SUBJECT TO CHANGE DURING FINAL DESIGN.

19. GENERAL PLAN DESIGNATION: MEDIUM DENSITY RESIDENTIAL

20. ZONING: RESIDENTIAL MEDIUM DENSITY

21. SITE COVERAGE: 34.8%



VICINITY MAP

NOT TO SCALE

SHEET INDEX

SHEET NO.	SHEET TITLE
1	COVER SHEET AND GENERAL NOTES
2	SITE PLAN AND STREET SECTIONS
3	EXISTING CONDITIONS AND DEMOLITION PLAN
4	LOTTING PLAN
5	PRELIMINARY GRADING PLAN
6	PRELIMINARY UTILITY PLAN
7	PRELIMINARY STORMWATER MANAGEMENT PLAN
8	FIRE ACCESS PLAN

LEGEND

EXISTING	PROPOSED	DESCRIPTION
1	1	LOT NUMBER
		PROJECT BOUNDARY
		LOT LINE
		RIGHT-OF-WAY LINE
		CENTER LINE
		EASEMENT LINE
		TOP OF CURB
		BIORETENTION AREA

PARKING SUMMARY

PARKING REQUIRED

MULTI-FAMILY

OFF-STREET COVERED SPACES PER UNIT (2 PER UNIT) = (76 X 2) =	152	SPACES
GUEST SPACES* = 0.5 SPACES PER UNIT = (76 X 0.5) =	38	SPACES
SUBTOTAL MULTI-FAMILY PARKING REQUIRED =	190	SPACES
TOTAL PARKING REQUIRED =	**190**	**SPACES**

PARKING PROVIDED

MULTI-FAMILY

OFF-STREET COVERED SPACES (76 X 2) =	152	SPACES
GUEST SPACES		
ON-STREET SPACES (IN-TRACT) =	38	SPACES
SUBTOTAL MULTI-FAMILY PARKING PROVIDED =	190	SPACES
TOTAL PARKING PROVIDED =	**190**	**SPACES**

BICYCLE PARKING

TOTAL BICYCLE SPACES REQUIRED (5.0% OF 185 TOTAL PARKING SPACES) =	9.5	SPACES
TOTAL BICYCLE SPACES PROVIDED =	10	SPACES

PARKING NOTES:
(1) ON-STREET PARALLEL SPACES MINIMUM DIMENSIONS: 9 FEET BY 19 FEET.
(2) PERPENDICULAR STANDARD SPACES MINIMUM DIMENSIONS: 9 FEET BY 19 FEET.
(3) PERPENDICULAR COMPACT SPACES MINIMUM DIMENSIONS: 8.5 FEET BY 16 FEET.
(4) ACCESSIBLE SPACES MINIMUM DIMENSIONS: 9 FEET BY 19 FEET.

CHAPTER 17.07.030: DEVELOPMENT STANDARDS RESIDENTIAL DISTRICTS

STANDARD	RESIDENTIAL MEDIUM DENSITY (RM)
A. LOT AND DENSITY STANDARDS	
MAXIMUM DENSITY (UNITS/NET ACRE)	22
MINIMUM LOT SIZE	6000-SQ. FEET
MINIMUM LOT WIDTH	60-FEET
MINIMUM LOT DEPTH	100-FEET
MINIMUM FRONTAGE ON A PUBLIC STREET	40-FEET
B. BUILDING FORM AND LOCATION	
MAXIMUM HEIGHT (FT)*	75-FEET
C. SETBACKS	
FRONT	15-FEET
INTERIOR SIDE	5-FEET
STREET SIDE	8-FEET
REAR	10-FEET
DISTANCE BETWEEN MAIN STRUCTURES	10-FEET
D. LOT COVERAGE, LANDSCAPE, AND OPEN SPACE STANDARDS	
MAXIMUM LOT COVERAGE (% OF LOT)	55
MINIMUM LANDSCAPING (% OF LOT)	25
MINIMUM OPEN SPACE (SQ FT PER RESIDENTIAL UNIT)	300

*HEIGHTS OVER 35 FEET IN THE RESIDENTIAL MEDIUM DENSITY DISTRICT SHALL REQUIRE A MINOR USE PERMIT.

LAND USE SUMMARY

LAND USE	AREA (AC±)
MULTIFAMILY RESIDENTIAL	1.78
WATER QUALITY	0.09
CEDAR BLVD. RIGHT-OF-WAY DEDICATION	0.09
PRIVATE STREETS	1.07
OPEN SPACE	0.69
TOTAL AREA	**3.72**

TRACT 8665
VESTING TENTATIVE MAP
FOR CONDOMINIUM PURPOSES
COVER SHEET AND GENERAL NOTES
CEDAR TOWNHOMES

CITY OF NEWARK ALAMEDA COUNTY CALIFORNIA

SCALE: 1" = 30' DATE: JUNE 16, 2023

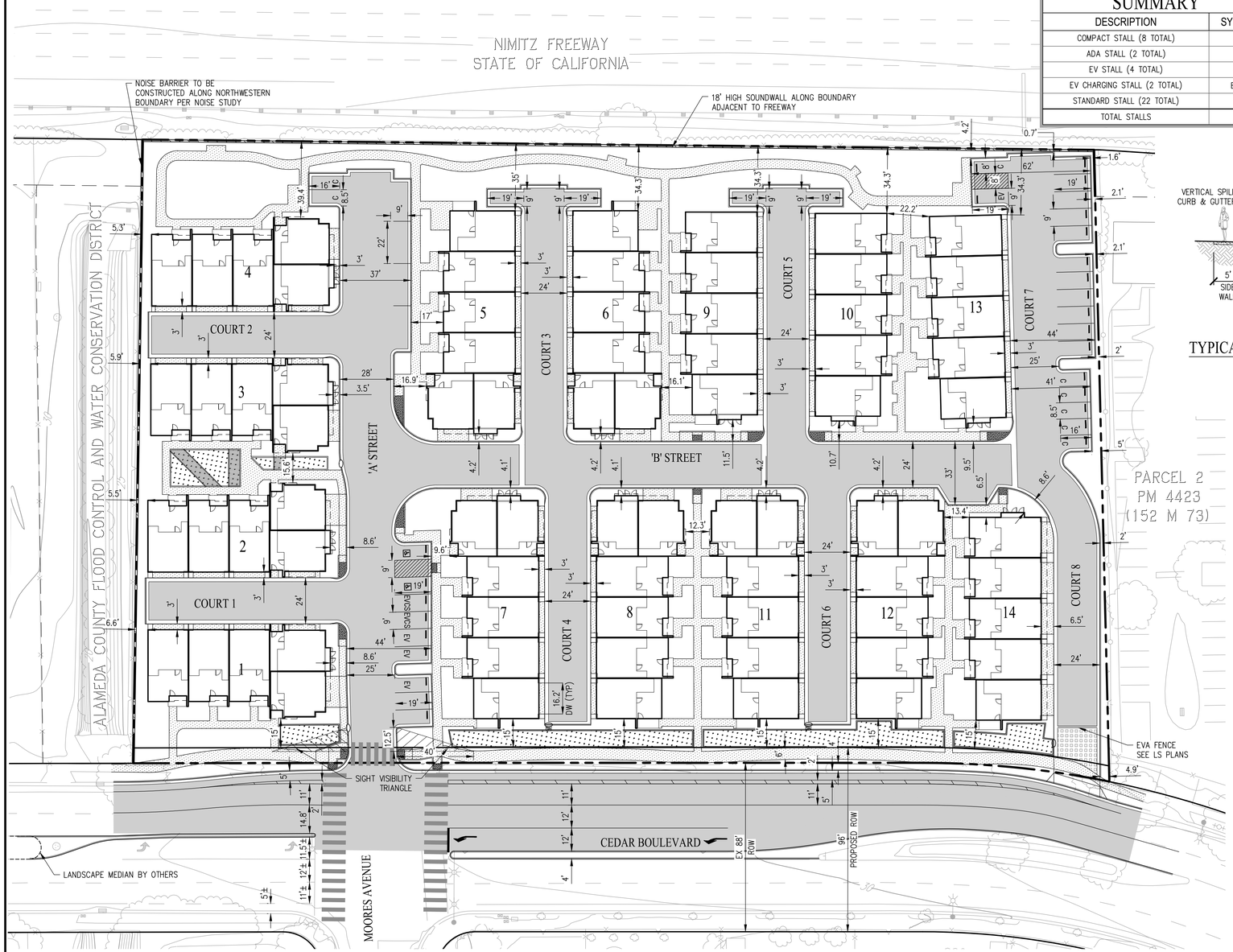
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JOB NO.: 2531-020

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SHEET NO. 1 OF 8 SHEETS

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ON STREET PARKING SUMMARY

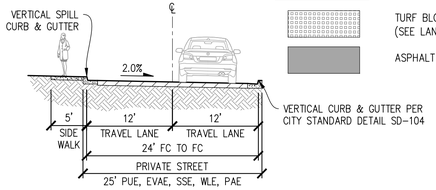
DESCRIPTION	SYMBOL
COMPACT STALL (8 TOTAL)	C
ADA STALL (2 TOTAL)	♿
EV STALL (4 TOTAL)	EV
EV CHARGING STALL (2 TOTAL)	EVCS
STANDARD STALL (22 TOTAL)	
TOTAL STALLS	38

LEGEND

EXISTING	PROPOSED	DESCRIPTION
1	1	LOT NUMBER
		PROJECT BOUNDARY
		LOT LINE
		RIGHT-OF-WAY LINE
		CENTER LINE
		EASEMENT LINE
		TOP OF CURB
		BIORETENTION AREA
		TURF BLOCK (SEE LANDSCAPE PLANS)
		ASPHALT CONCRETE

ABBREVIATIONS

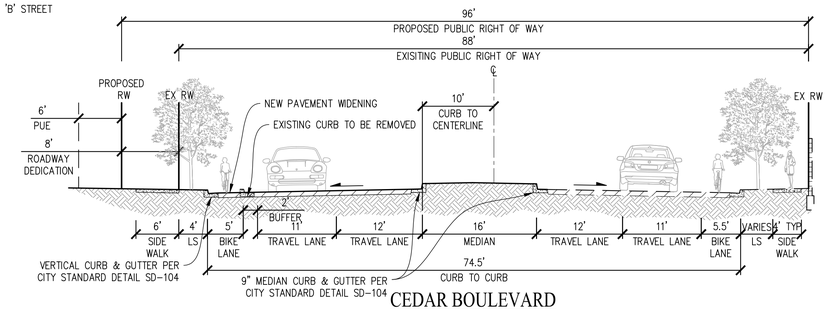
AC	ACRES	LF	LINEAR FEET
AD	AREA DRAIN	LL	LOT LINE
BC	BACK OF CURB	LP	LOW POINT
BU	BUBBLE UP	OHW	OVERHEAD ELECTRIC WIRE
BW	BACK OF WALK	P	PAD ELEVATION
B/W	BOTTOM OF WALL	PL	PROPERTY LINE
BNDY	BOUNDARY	PAE	PUBLIC ACCESS EASEMENT
BR	BIO-RETENTION AREA	PUE	PUBLIC UTILITY EASEMENT
℄	CENTERLINE	PSDE	PRIVATE STORM DRAIN EASEMENT
DW	DRIVEWAY	R	RADIUS
EG	EXISTING GROUND	RW	RETAINING WALL
EL	ELEVATION	ROW	RIGHT-OF-WAY
EVAE	EMERGENCY VEHICLE ACCESS EASEMENT	S	SLOPE
		SD	STORM DRAIN
EX	EXISTING	SF	SQUARE FEET
FC	FACE OF CURB	SS	SANITARY SEWER
FF	FINISHED FLOOR ELEVATION	SSE	SANITARY SEWER EASEMENT
FG	FINISHED GROUND	SW	SIDEWALK
FL	FLOWLINE	TB	TOP OF BANK
FH	FIRE HYDRANT	TBC	TOP OF BEVELED CURB
FL	FLOW LINE	TC	TOP OF VERTICAL CURB
GLIP	GARAGE LIP	W	WATER
HP	HIGH POINT	WLE	WATER LINE EASEMENT
INV	INVERT	WQ	WATER QUALITY
L	LENGTH		



TYPICAL 24' PRIVATE ALLEY SECTION (CROSS SLOPED)

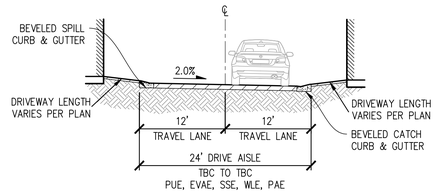
NOT TO SCALE

APPLIES:
'B' STREET



CEDAR BOULEVARD

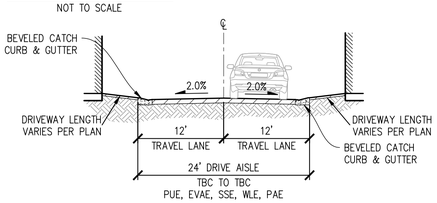
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TYPICAL 24' PRIVATE ALLEY SECTION (CROSS SLOPED)

NOT TO SCALE

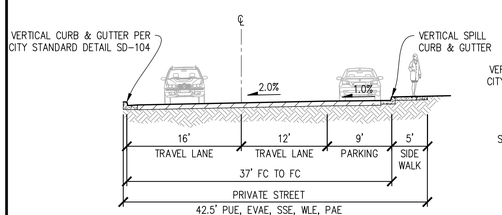
APPLIES:
COURTS 2-8



TYPICAL 24' PRIVATE ALLEY SECTION (CROWNED)

NOT TO SCALE

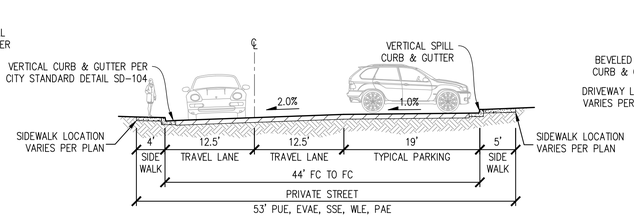
APPLIES:
COURT 1



TYPICAL 28' PRIVATE STREET WITH PARALLEL PARKING

NOT TO SCALE

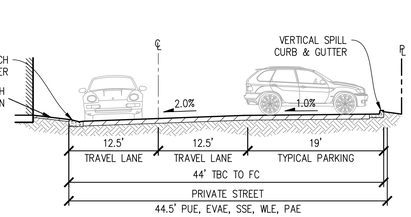
APPLIES:
'A' STREET (NORTH OF 'B' STREET)



TYPICAL 25' PRIVATE STREET SECTION WITH PERPENDICULAR PARKING

NOT TO SCALE

APPLIES:
'A' STREET (SOUTH OF 'B' STREET)



25' PRIVATE STREET SECTION WITH PERPENDICULAR PARKING

NOT TO SCALE

APPLIES:
COURT 7

TRACT 8665

VESTING TENTATIVE MAP FOR CONDOMINIUM PURPOSES

SITE PLAN AND STREET SECTIONS

CEDAR TOWNHOMES

CITY OF NEWARK ALAMEDA COUNTY CALIFORNIA

SCALE: 1" = 30' DATE: JUNE 16, 2023

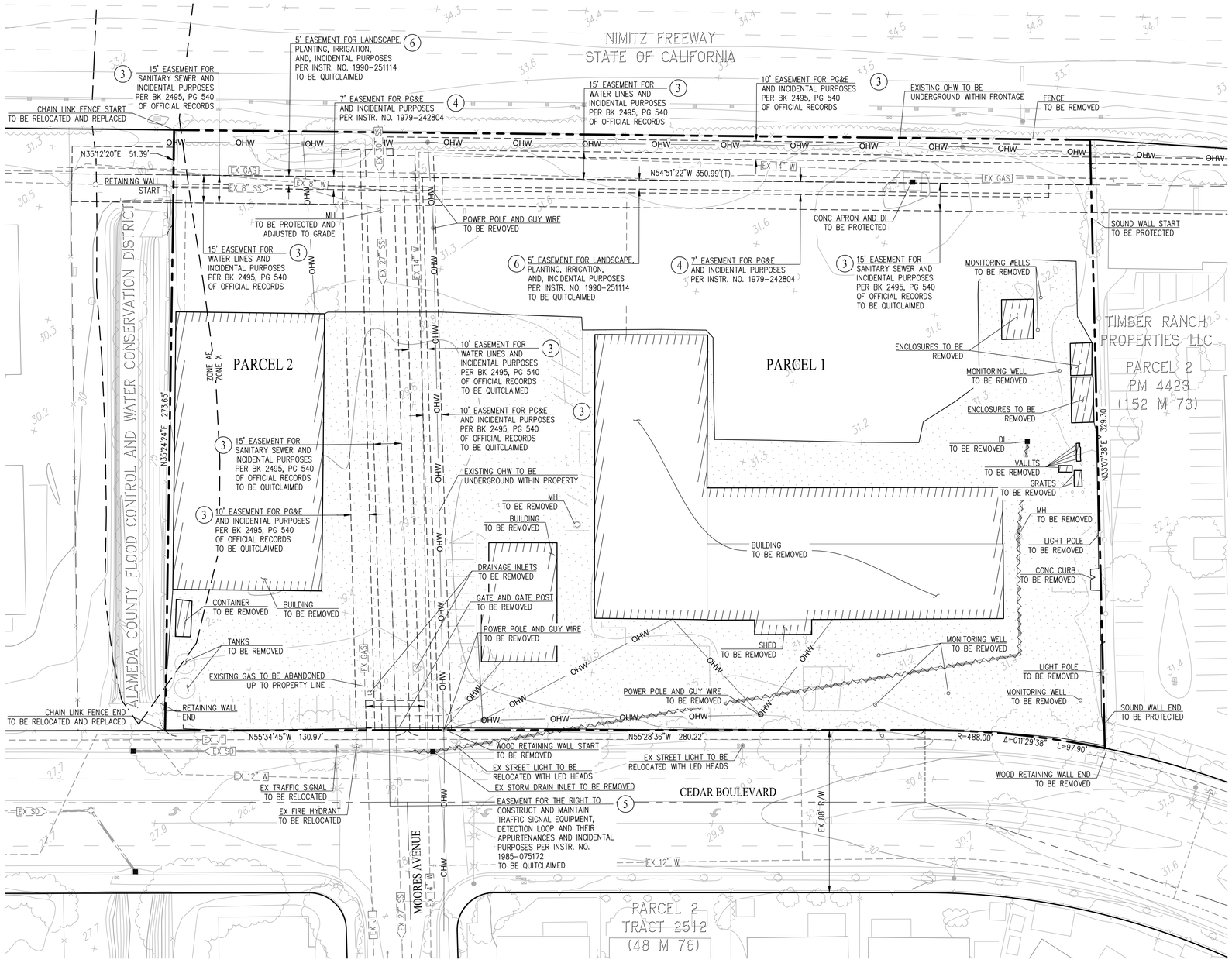
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JOB NO.: 2531-020

SHEET NO. 2 OF 8 SHEETS

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LEGEND

SUBDIVISION BOUNDARY	OHW	EXISTING OVERHEAD WIRES	EXISITNG IMPERVIOUS PAVEMENT TO BE REMOVED (68,720± SF)
EASEMENT LINE	EX W	EXISTING WATER	
EXISTING LOT LINE	EX JT	EXISTING JOINT TRENCH	EXISTING STRUCTURES TO BE REMOVED (36,770± SF)
FEMA FLOOD ZONE		EXISTING FIELD INLET	
EX SD		EXISTING MANHOLE	EXISTING STORM DRAIN TO BE REMOVED (437± LF)
EX 27" SS	(1)	EXCLUSION OR EXCEPTION NUMBER IN TITLE REPORT	

TITLE REPORT

FIRST AMERICAN TITLE COMPANY
ORDER NO. 01313-625291-ROW
DATED AUGUST 30, 2022

EXCEPTIONS AND EXCLUSIONS:

(#) INDICATES TITLE REPORT ITEM NUMBER

(1) THROUGH (2) REFER TO PROPERTY TAXES, INCLUDING ANY PERSONAL PROPERTY TAXES AND ANY ASSESSMENTS. THESE ITEMS CANNOT BE PLOTTED.

(3) AN EASEMENT FOR WATER LINES, SANITARY SEWERS, NATURAL GAS LINES, ELECTRICAL LINES AND INCIDENTAL PURPOSES, RECORDED OCTOBER 14, 1969 AS BOOK/REEL 2495, PAGE/IMAGE 540 OF OFFICIAL RECORDS.

IN FAVOR OF: CITY OF NEWARK, A MUNICIPAL CORPORATION, IN RESOLUTION NO. 1786, ABANDONING PORTIONS OF MOORES AVENUE AND TIMBER STREET
AFFECTS: PARCEL 1
THIS ITEM IS PLOTTED HEREON. SEE SAID DOCUMENT FOR FULL PARTICULARS.

(4) AN EASEMENT FOR RIGHT AT ANY TIME, AND FROM TIME TO TIME, TO EXCAVATE FOR, INSTALL, REPLACE (OF THE INITIAL OR ANY OTHER SIZE), MAINTAIN AND USE SUCH PIPE LINES AS SECOND PARTY SHALL FROM TIME TO TIME ELECT FOR CONVEYING GAS, OIL, PETROLEUM PRODUCTS, OR ANY OTHER LIQUIDS, GASES, OR SUBSTANCES WHICH CAN BE TRANSPORTED THROUGH A PIPE LINE, WITH NECESSARY AND PROPER VALVES AND OTHER APPLIANCES AND FITTINGS, AND DEVICES FOR CONTROLLING ELECTROLYSIS FOR USE IN CONNECTION WITH SAID PIPE LINES, TOGETHER WITH ADEQUATE PROTECTION AND INCIDENTAL PURPOSES, RECORDED NOVEMBER 29, 1979 AS INSTRUMENT NO. 1979-242804 OF OFFICIAL RECORDS.

IN FAVOR OF: PACIFIC GAS AND ELECTRIC COMPANY, A CALIFORNIA CORPORATION
AFFECTS: AS DESCRIBED THEREIN
THIS ITEM IS PLOTTED HEREON. SEE SAID DOCUMENT FOR FULL PARTICULARS.

(5) AN EASEMENT FOR RIGHT TO CONSTRUCT AND MAINTAIN TRAFFIC SIGNAL EQUIPMENT, DETECTION LOOPS AND THEIR APPURTENANCES AND INCIDENTAL PURPOSES, RECORDED APRIL 17, 1985 AS INSTRUMENT NO. 1985-075172 OF OFFICIAL RECORDS.

IN FAVOR OF: CITY OF NEWARK, A MUNICIPAL CORPORATION
AFFECTS: AS DESCRIBED THEREIN
THIS ITEM IS PLOTTED HEREON. SEE SAID DOCUMENT FOR FULL PARTICULARS.

(6) AN EASEMENT FOR LANDSCAPE PLANTING AND IRRIGATION AND INCIDENTAL PURPOSES, RECORDED SEPTEMBER 20, 1990 AS INSTRUMENT NO. 1990-251114 OF OFFICIAL RECORDS.

IN FAVOR OF: CITY OF NEWARK, A MUNICIPAL CORPORATION
AFFECTS: AS DESCRIBED THEREIN
THIS ITEM IS PLOTTED HEREON. SEE SAID DOCUMENT FOR FULL PARTICULARS.

(7) THE TERMS, PROVISIONS AND EASEMENT(S) CONTAINED IN THE DOCUMENT ENTITLED "LANDSCAPE MAINTENANCE AGREEMENT" RECORDED APRIL 1, 2003 AS INSTRUMENT NO. 2003-190703 OF OFFICIAL RECORDS.

THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
THIS ITEM CANNOT BE PLOTTED.

(8) THE FACT THAT THE LAND LIES WITHIN THE BOUNDARIES OF THE NEWARK REDEVELOPMENT PROJECT NO. 2, AS DISCLOSED BY VARIOUS DOCUMENTS OF RECORD.
THIS ITEM CANNOT BE PLOTTED.

(9) RIGHTS OF THE PUBLIC IN AND TO THAT PORTION OF THE LAND LYING WITHIN ANY ROAD, STREET, ALLEY OR HIGHWAY. THIS ITEM CANNOT BE PLOTTED.

(10) WATER RIGHTS, CLAIMS OR TITLE TO WATER, WHETHER OR NOT SHOWN BY THE PUBLIC RECORDS. THIS ITEM CANNOT BE PLOTTED.

(11) ANY FACTS, RIGHTS, INTERESTS OR CLAIMS WHICH WOULD BE DISCLOSED BY A CORRECT ALTA/NSPS SURVEY. THIS ITEM CANNOT BE PLOTTED.

(12) RIGHTS OF PARTIES IN POSSESSION. THIS ITEM CANNOT BE PLOTTED.

TRACT 8665
VESTING TENTATIVE MAP
FOR CONDOMINIUM PURPOSES
EXISTING CONDITIONS AND DEMOLITION PLAN
CEDAR TOWNHOMES

CITY OF NEWARK ALAMEDA COUNTY CALIFORNIA

SCALE: 1" = 30' DATE: JUNE 16, 2023

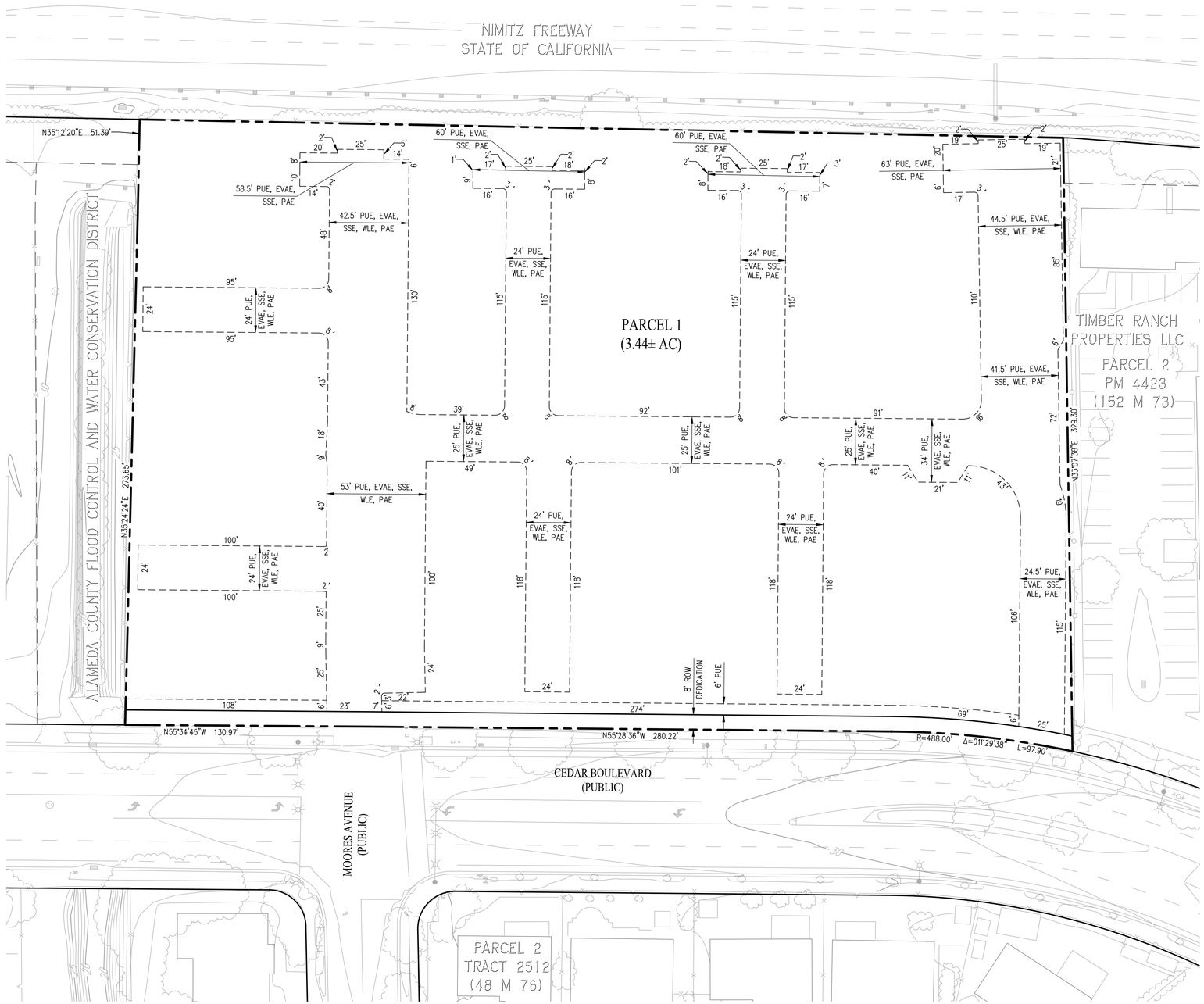
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JOB NO.: 2531-020

SHEET NO. 3 OF 8 SHEETS

G:\2531-020\ACAD\TM\TM03.DWG



LEGEND

EXISTING	PROPOSED	DESCRIPTION
1	1	PARCEL NUMBER
		PROJECT BOUNDARY
		LOT LINE
		RIGHT-OF-WAY LINE
		EASEMENT LINE

ABBREVIATIONS

EVAE	EMERGENCY VEHICLE ACCESS EASEMENT
PAE	PUBLIC ACCESS EASEMENT
PUE	PUBLIC UTILITIES EASEMENT
SSE	SANITARY SEWER EASEMENT
WLE	WATER LINE EASEMENT

TRACT 8665
VESTING TENTATIVE MAP
FOR CONDOMINIUM PURPOSES
LOTTING PLAN
CEDAR TOWNHOMES

CITY OF NEWARK ALAMEDA COUNTY CALIFORNIA

SCALE: 1" = 30' DATE: JUNE 16, 2023

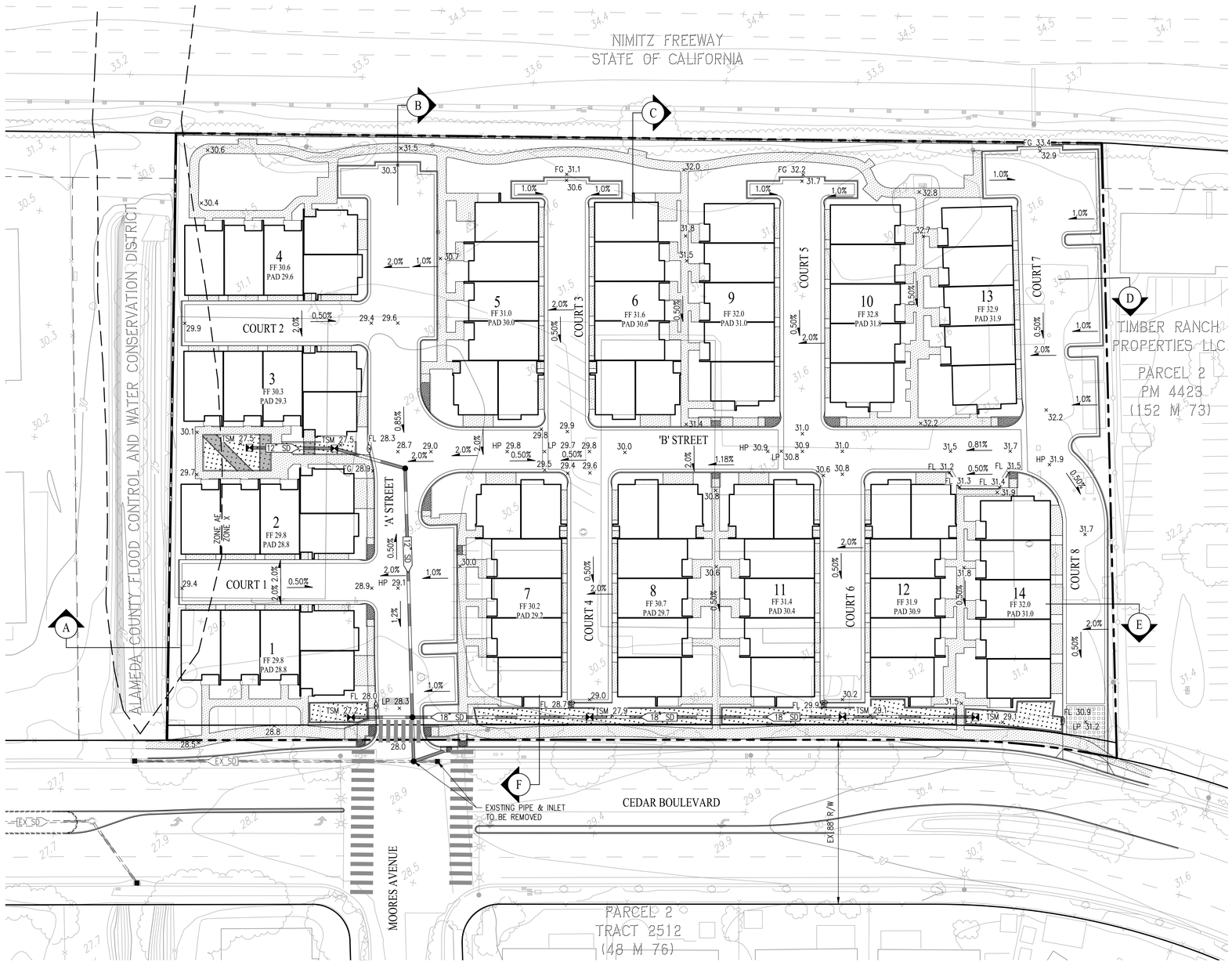
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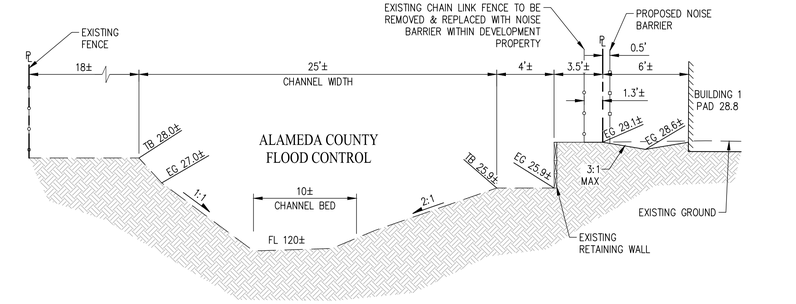
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SHEET NO. 4 OF 8 SHEETS

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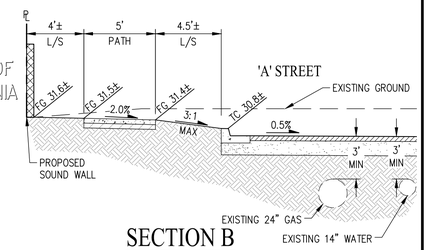


SECTION A

NOT TO SCALE

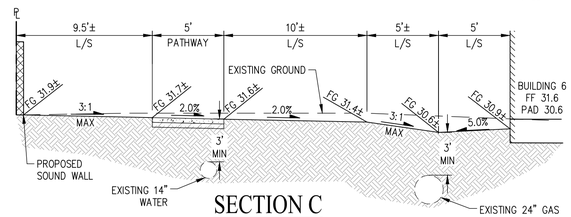
EARTHWORK SUMMARY

DESCRIPTION	CUT (CY)	FILL (CY)
SUBGRADE	6,185	9,000
HOUSE SPOILS (ASSUMED 15 CY/ UNIT, 76 UNITS)	1,140	0
ESTIMATED UTILITY SPOILS	1,675	0
SUBTOTAL	9,000	9,000
NET	0	



SECTION B

NOT TO SCALE



SECTION C

NOT TO SCALE

NOTE:

BUILDINGS 1 THROUGH 4, WHICH ARE ADJACENT TO THE ALAMEDA FLOOD CONTROL CHANNEL, WILL REQUIRE GEOGRID ENHANCEMENTS AS RECOMMENDED PER SECTION 5.3 OF THE GEOTECH REPORT PROVIDED BY ENGEO, DATED DECEMBER 14, 2022.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
	1	LOT NUMBER
		PROJECT BOUNDARY
		LOT LINE
		RIGHT-OF-WAY LINE
		CENTER LINE
		EASEMENT LINE
		TOP OF CURB
		BIORETENTION AREA

FLOOD ZONE:

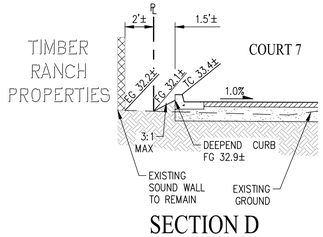
BFE: **31.0 (NAVD 88)**
28.3 (NGVD 29)
NAVD 88 – 2.7' = NGVD 29

ZONE AE: SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD, BASE FLOOD ELEVATIONS DETERMINED.

ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

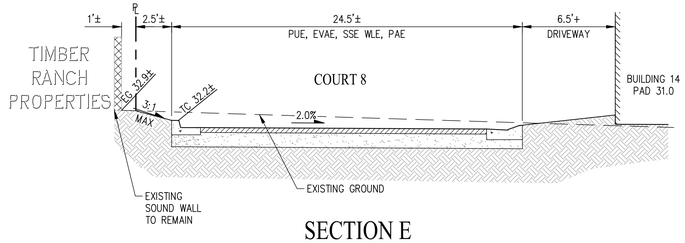
SOURCE: FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), FLOOD INSURANCE RATE MAP, MAP NUMBER 06001C0442G AND 06001C0444G.

DATED: AUGUST 3, 2009



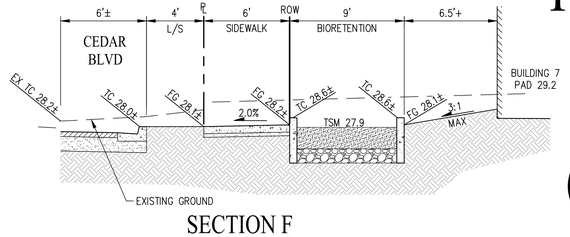
SECTION D

NOT TO SCALE



SECTION E

NOT TO SCALE



SECTION F

NOT TO SCALE

TRACT 8665

VESTING TENTATIVE MAP FOR CONDOMINIUM PURPOSES

PRELIMINARY GRADING PLAN

CEDAR TOWNHOMES

CITY OF NEWARK ALAMEDA COUNTY CALIFORNIA

SCALE: 1" = 30' DATE: JUNE 16, 2023

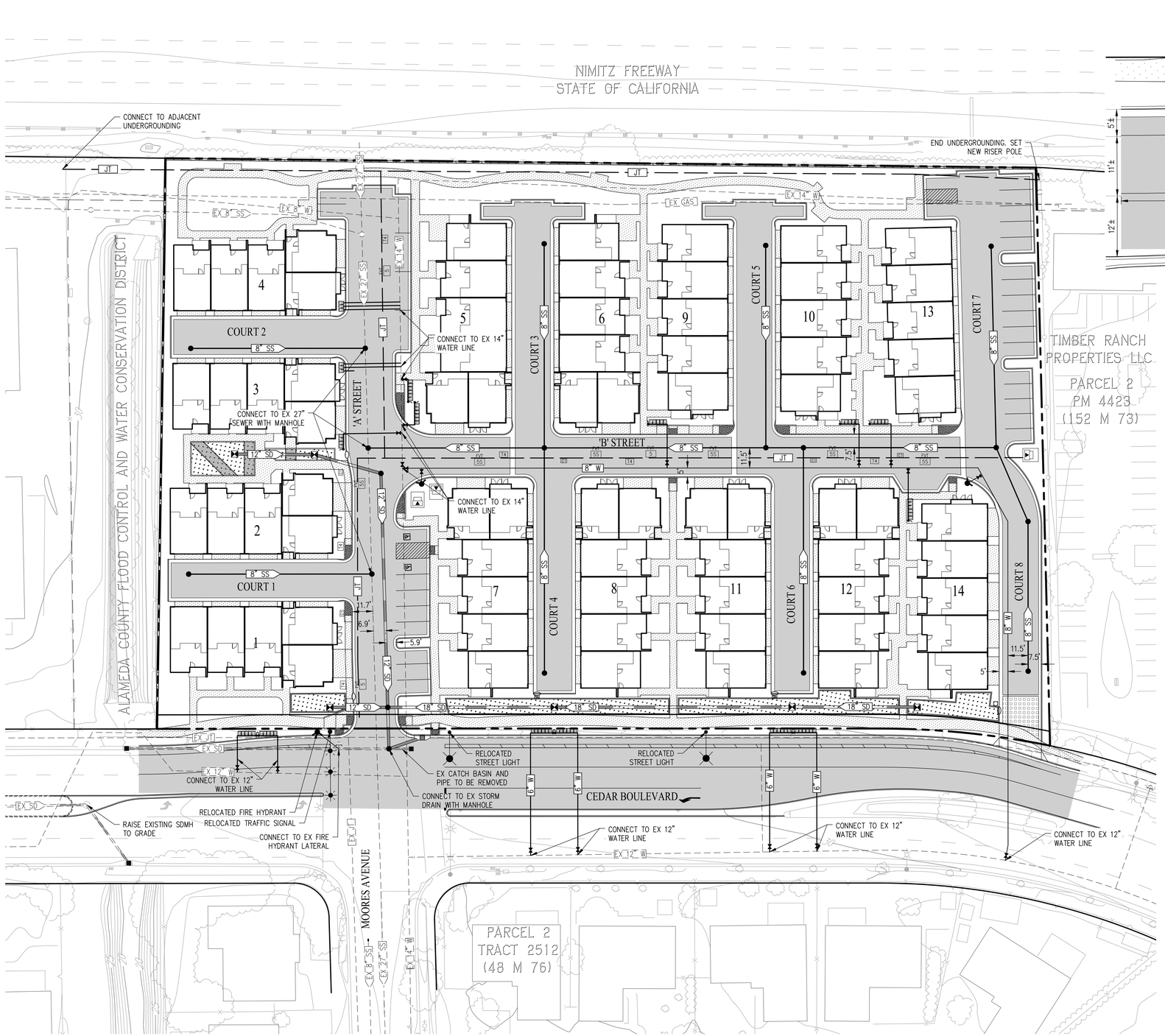
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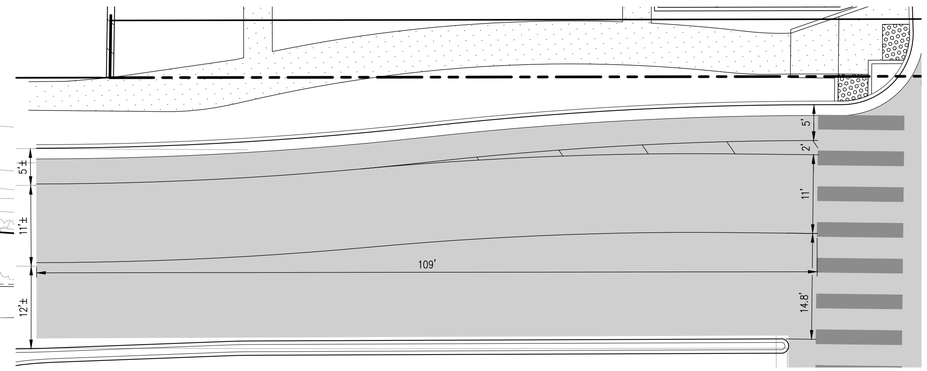
JOB NO.: 2531-020

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SHEET NO. 5 OF 8 SHEETS

G:\2531-020\ACAD\TM\TM05.DWG





STRIPING TRANSITION DETAIL

SCALE: 1" = 10'

LEGEND

EXISTING	PROPOSED	DESCRIPTION
	1	LOT NUMBER
		PROJECT BOUNDARY
		LOT LINE
		RIGHT-OF-WAY LINE
		CENTER LINE
		EASEMENT LINE
		TOP OF CURB
		BIORETENTION AREA
EX SS	8" SS	SANITARY SEWER
EX SD	24" SD	STORM DRAIN
EX W	8"W	WATER
EX JT	JT	JOINT TRENCH
		PERVIOUS PAVEMENT SUBDRAIN
		BUBBLE UP
		STORM DRAIN FIELD INLET
		STORM DRAIN CATCH BASIN
		STORM DRAIN CURB CUT
		STORM DRAIN MANHOLE
		SANITARY SEWER MANHOLE
		WATER VALVE
		STREET LIGHT
		TRAFFIC SIGNAL
		FIRE HYDRANT
		SLOPE
	T4 SS	JOINT TRENCH BOXES

NOTE:

MINIMUM TRANSITION LENGTH PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) TABLE 6C-3 AND 6C-4 FOR DESIGN SPEED OF 45 MPH IS 97' WITH A WIDTH OF OFFSET OF 4.3.

TRACT 8665
VESTING TENTATIVE MAP
FOR CONDOMINIUM PURPOSES
PRELIMINARY UTILITY PLAN
CEDAR TOWNHOMES

CITY OF NEWARK ALAMEDA COUNTY CALIFORNIA

SCALE: 1" = 30' DATE: JUNE 16, 2023

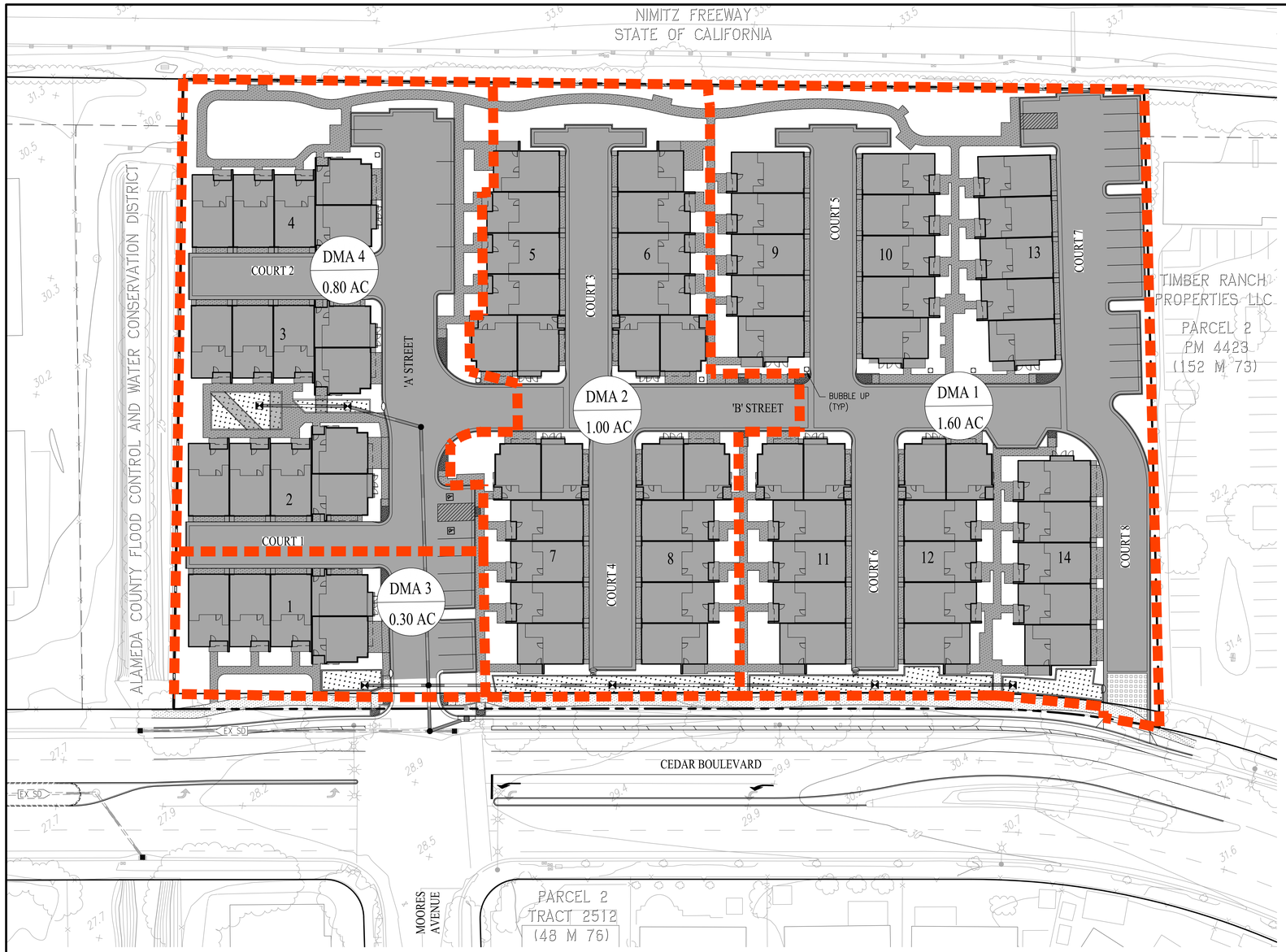
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JOB NO.: 2531-020

SHEET NO. 6 OF 8 SHEETS

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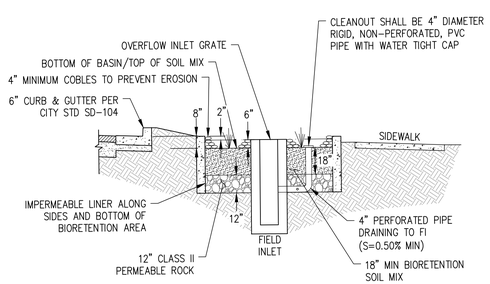
LEGEND

EXISTING	PROPOSED	DESCRIPTION
	1	LOT NUMBER
		PROJECT BOUNDARY
		LOT LINE
		RIGHT-OF-WAY LINE
		CENTER LINE
		EASEMENT LINE
		TOP OF CURB
		DMA BOUNDARY
		BUBBLE UP
		BIORETENTION AREA (SEE DETAIL THIS SHEET)
		IMPERVIOUS AREA
		TURF BLOCK AREA (SEE LANDSCAPE PLANS)
	DMA 1 1.60 AC	DRAINAGE MANAGEMENT AREA

TRACT 8665
VESTING TENTATIVE MAP
FOR CONDOMINIUM PURPOSES
PRELIMINARY STORMWATER MANAGEMENT PLAN
CEDAR TOWNHOMES

CITY OF NEWARK ALAMEDA COUNTY CALIFORNIA

SCALE: 1" = 30' DATE: JUNE 16, 2023



BIORETENTION SECTION

NOT TO SCALE

DRAINAGE MANAGEMENT AREA SUMMARY

DRAINAGE MANAGEMENT AREA	TOTAL AREA (SF)	TOTAL IMPERVIOUS AREA (SF)	TOTAL PERVIOUS AREA (SF)	EFFECTIVE IMPERVIOUS AREA (SF)	TREATMENT AREA BASED ON FLOW & VOLUME (SF)	4% TREATMENT AREA (SF)	3% TREATMENT AREA (SF)	TREATMENT AREA PROVIDED (SF)
DMA 1	69,040	51,853	17,187	53,572	1,552	2,143	1,607	1,643
DMA 2	43,965	33,348	10,617	34,410	949	1,376	1,032	1,032
DMA 3	12,064	9,587	2,477	9,835	279	393	295	295
DMA 4	36,974	29,461	7,513	30,212	836	1,208	906	906
TOTAL	162,043	124,249	37,794	128,028	3,616	5,121	3,841	3,827

PRE PROJECT AND POST PROJECT COMPARISON

	IMPERVIOUS (%)	PERVIOUS (%)	TOTAL (%)
PRE-PROJECT	65.1	34.9	100
POST-PROJECT	76.3	23.7	100

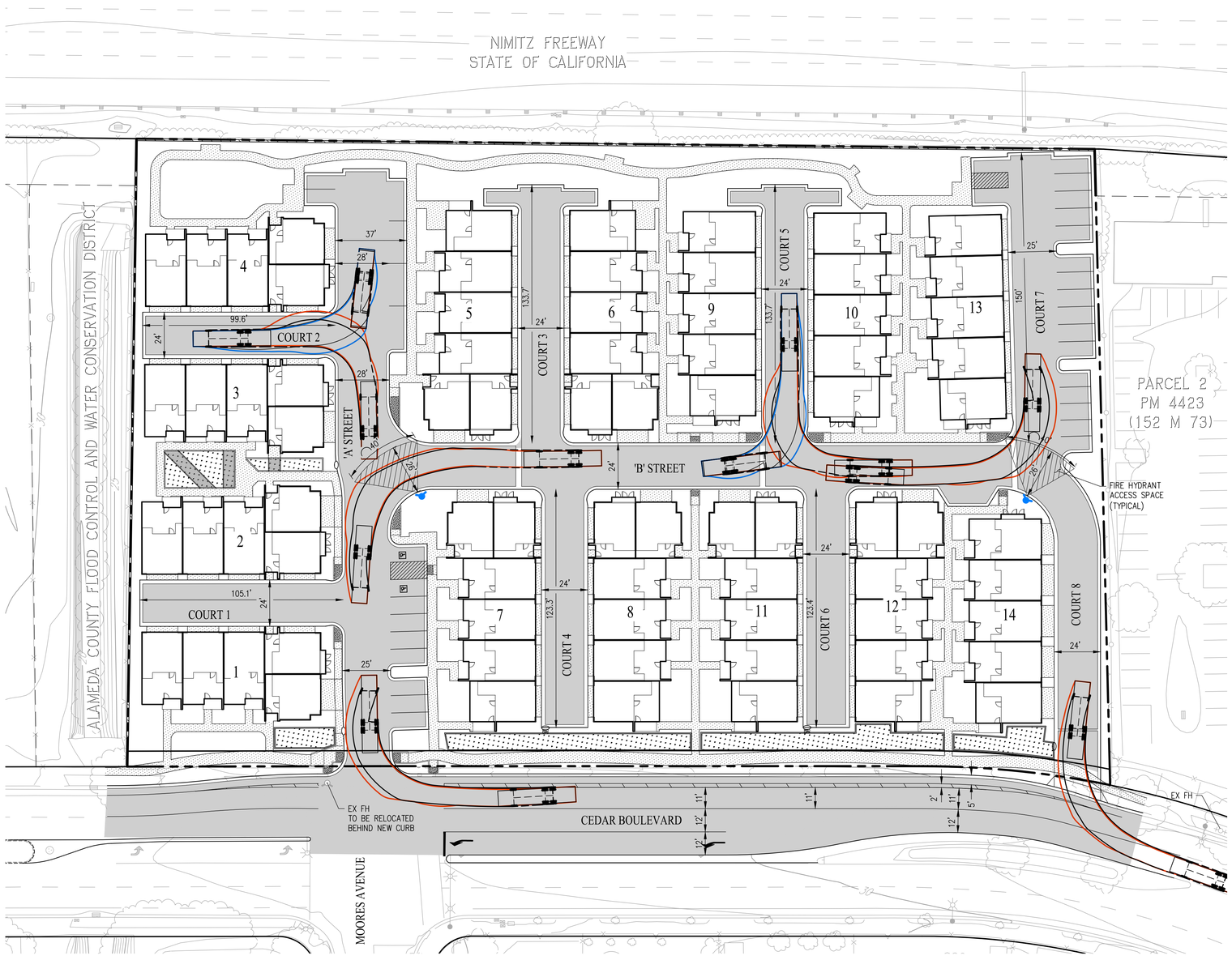
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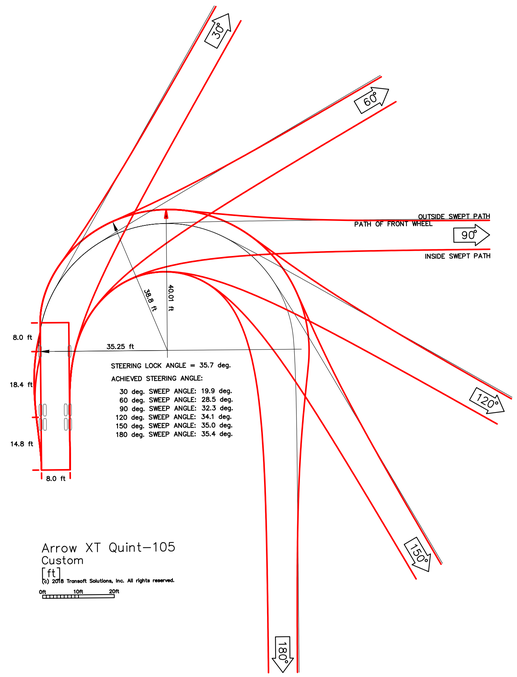
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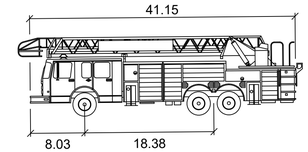
JOB NO.: 2531-020

SHEET NO. 7 OF 8 SHEETS

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Arrow XT Quint-105

	feet
Width	: 8.00
Track	: 9.06
Lock to Lock Time	: 4.0
Steering Angle	: 35.7

LEGEND:

- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- 20' MIN FIRE ACCESS LANE

TRACT 8665
VESTING TENTATIVE MAP
FOR CONDOMINIUM PURPOSES
FIRE ACCESS PLAN
CEDAR TOWNHOMES

CITY OF NEWARK ALAMEDA COUNTY CALIFORNIA

SCALE: 1" = 30' DATE: JUNE 16, 2023

0 30 60 90

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SHEET NO. 8 OF 8 SHEETS

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PLAN LEGEND

1. Adventure Play Area
2. Wood Rail Fence
3. Linear Flexible Green
4. Permeable Paving
5. Asphalt Paving
6. Bio-Retention with Boardwalks
7. Enhanced Paving
8. Enhanced Planting at Entry
9. Cedar Blvd. Frontage Improvements
10. Bike Parking
11. Noise Barrier — 18’, 16’, 14’, 12’, 10’, 8’
12. Turf Cell Paving
13. Fenced Dog Area
14. Picnic Area
15. Main Zen Courtyard w/ seating stones
16. Minor Zen Courtyard w/ seating stones
17. Garden Courtyard w/benches
18. Village Green w/benches
19. Mailboxes
20. Removable Bollards
21. Stucco Low Wall *(See Arch Plans)*
22. Patio Fence

0 10’ 20’ 40’

GATES +ASSOCIATES

CEDAR BOULEVARD

NEWARK, CALIFORNIA

ILLUSTRATIVE SITE PLAN L-1

JUNE 2023

PLAN LEGEND

- Primary Loop Path
- Secondary Walks
- Enhanced Crossings
- Bike Parking *(10 Bikes Total)*
- Mailboxes

BLDG 1
BLDG 2
BLDG 3
BLDG 4
BLDG 5
BLDG 6
BLDG 7
BLDG 8
BLDG 9
BLDG 10
BLDG 11
BLDG 12
BLDG 13
BLDG 14
EVCS
EV
CEDAR BLVD

0 10' 20' 40'

GATES +ASSOCIATES

CEDAR BOULEVARD NEWARK, CALIFORNIA

PEDESTRIAN CIRCULATION PLAN L-2
JUNE 2023

BLDG 4
BLDG 3
BLDG 2
BLDG 1
BLDG 5
BLDG 6
BLDG 9
BLDG 10
BLDG 13
BLDG 7
BLDG 8
BLDG 11
BLDG 12
BLDG 14
EV
EVCS
CEDAR BLVD

PLAN LEGEND



Pedestrian Bollard Light
Manufacturer: Sternberg
Model: Flight



Pedestrian Pole Light (12-foot)
Manufacturer: Sternberg
Model: Omega Small



Downlight Fixture (2 Per Driveway)
Manufacturer: Signify
Model: P4R 4” Round Downlight

0 10' 20' 40'

GATES +ASSOCIATES

CEDAR BOULEVARD NEWARK, CALIFORNIA

CONCEPTUAL LIGHTING PLAN L-3
JUNE 2023










Marie Elizabeth

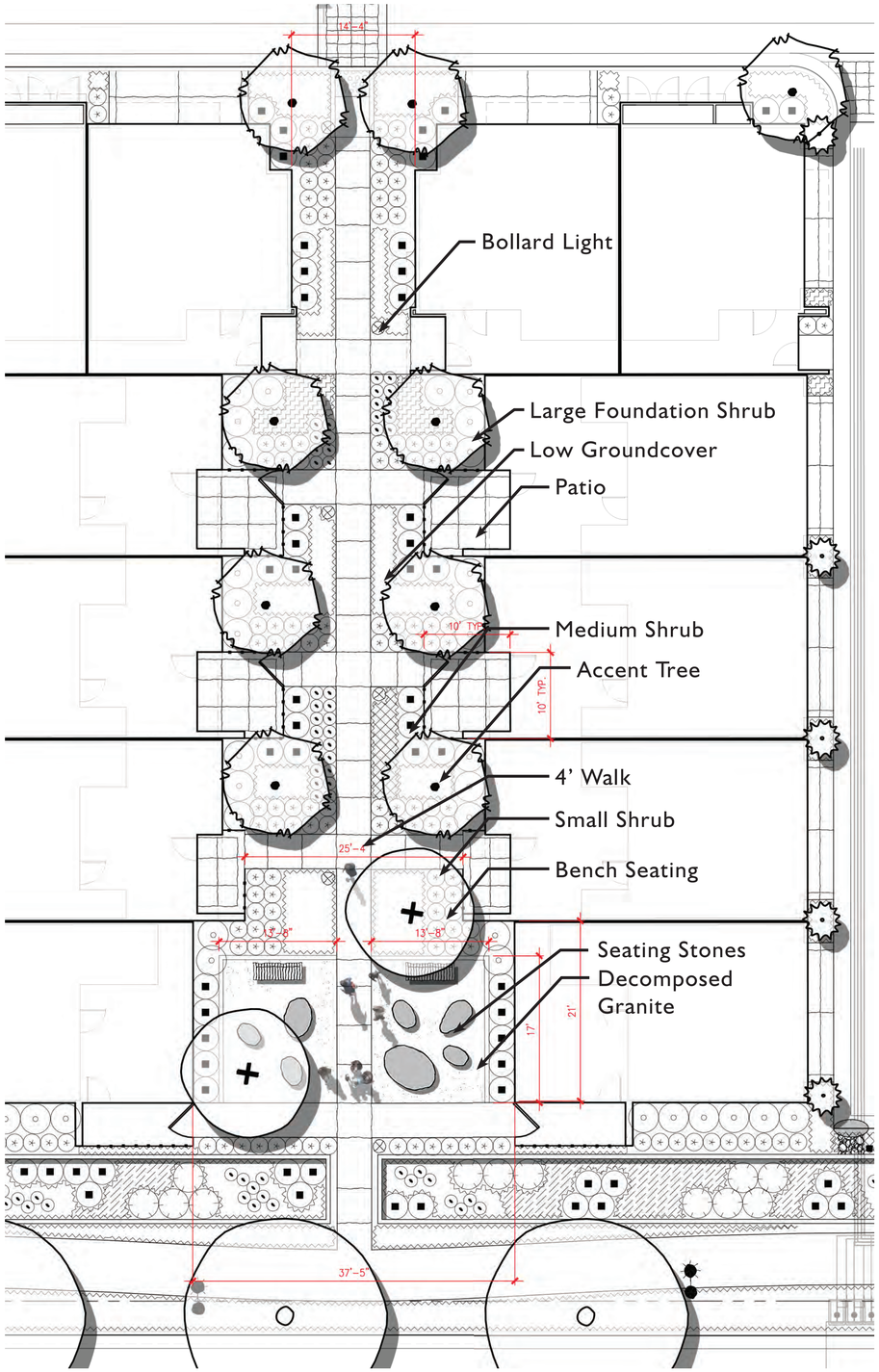


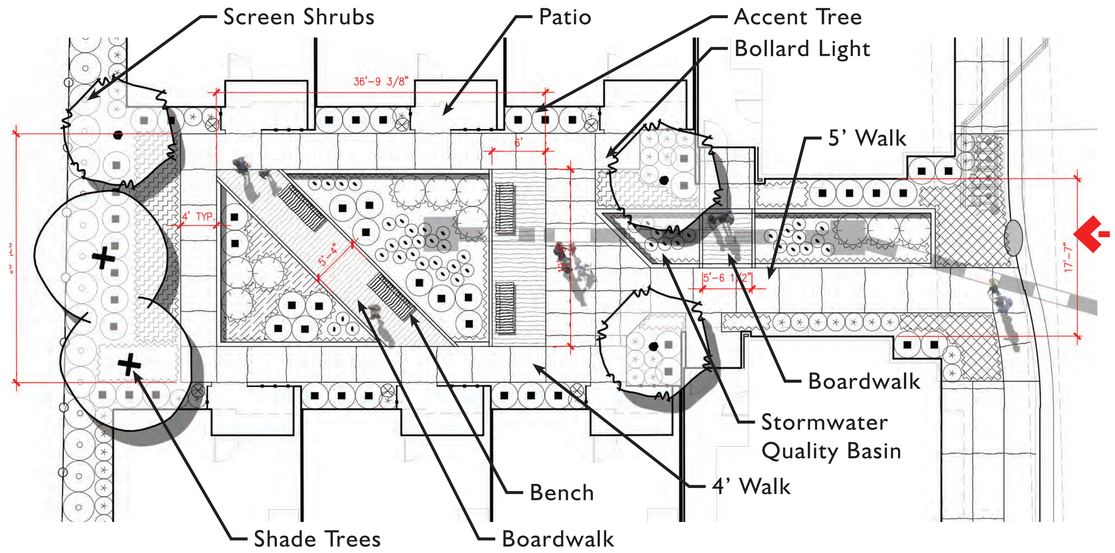

NO PARKING FIRE LANE

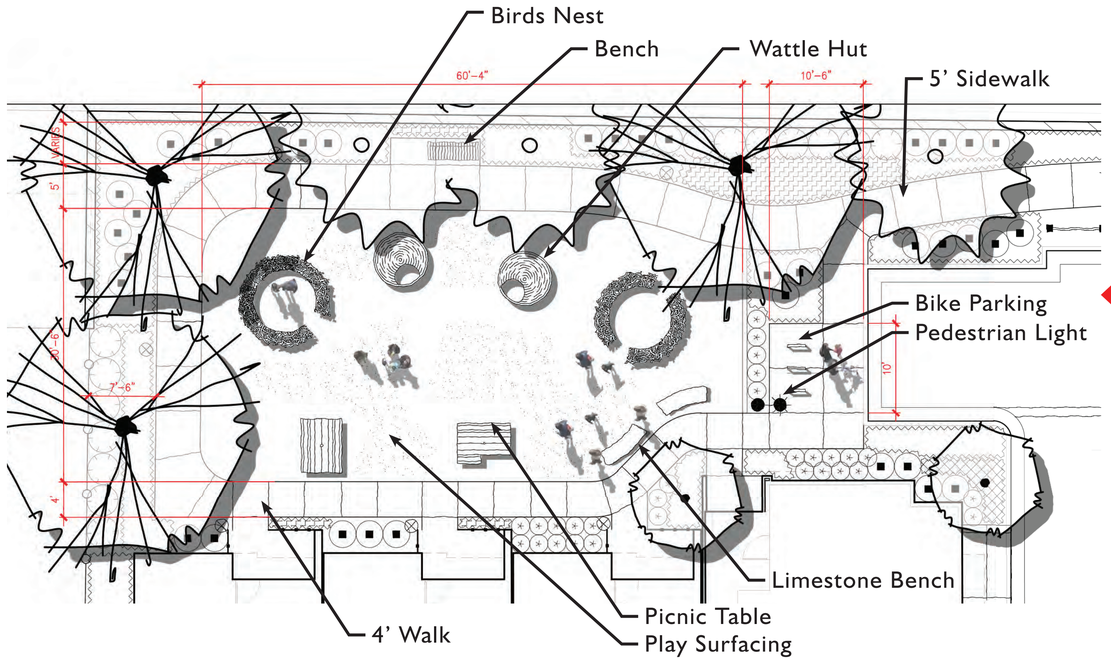


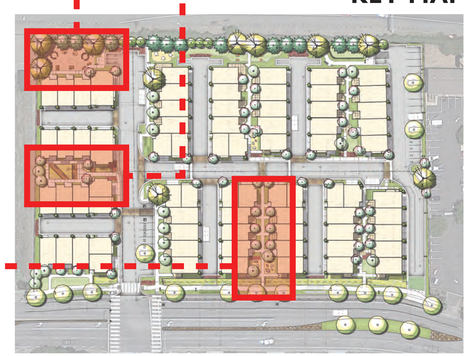










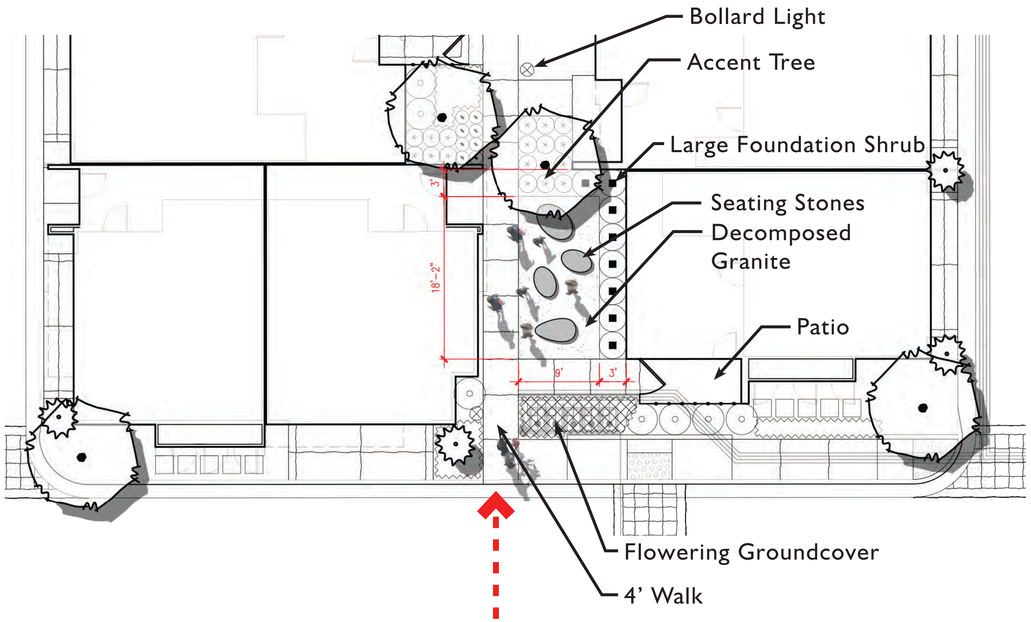


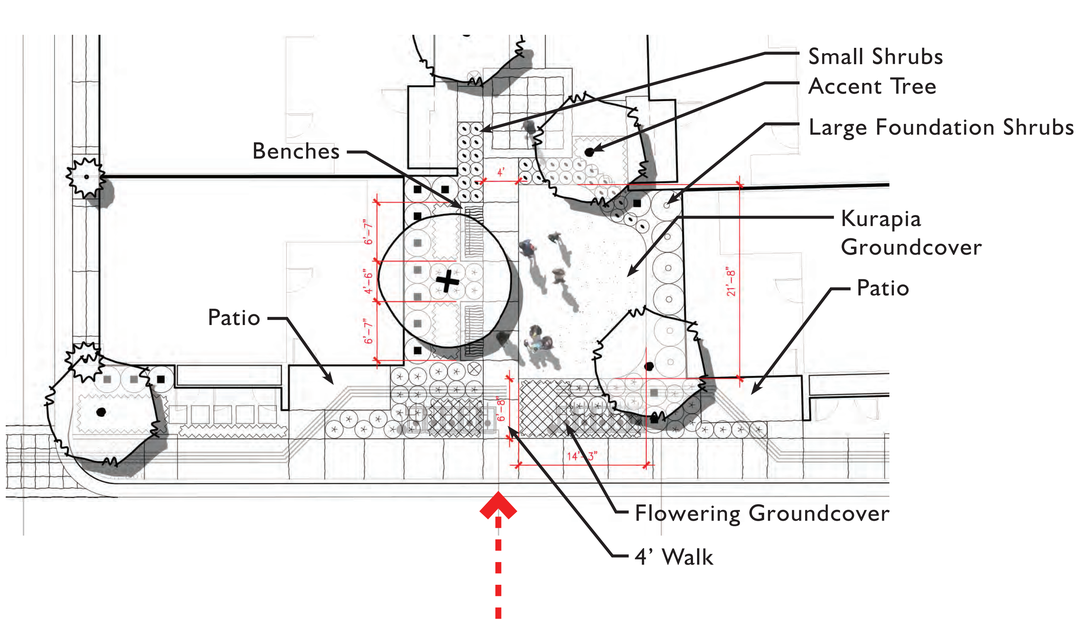
0 4' 8' 16'

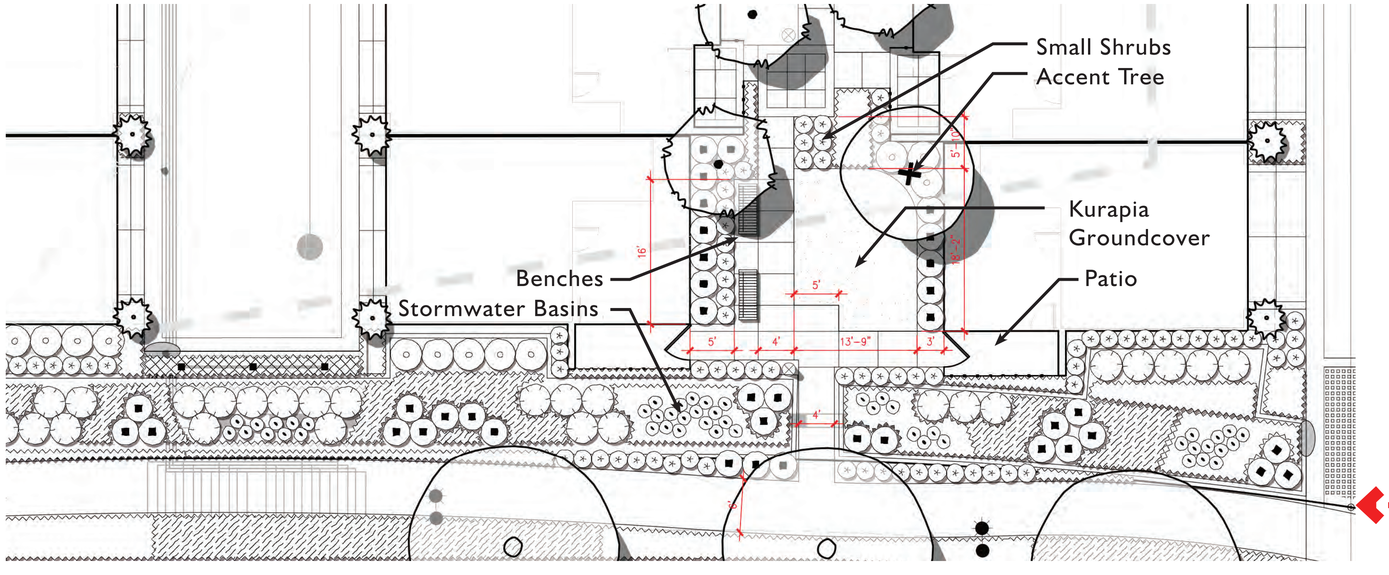
GATES +ASSOCIATES

CEDAR BOULEVARD NEWARK, CALIFORNIA

TYPICAL LANDSCAPE AREAS L-5
JUNE 2023



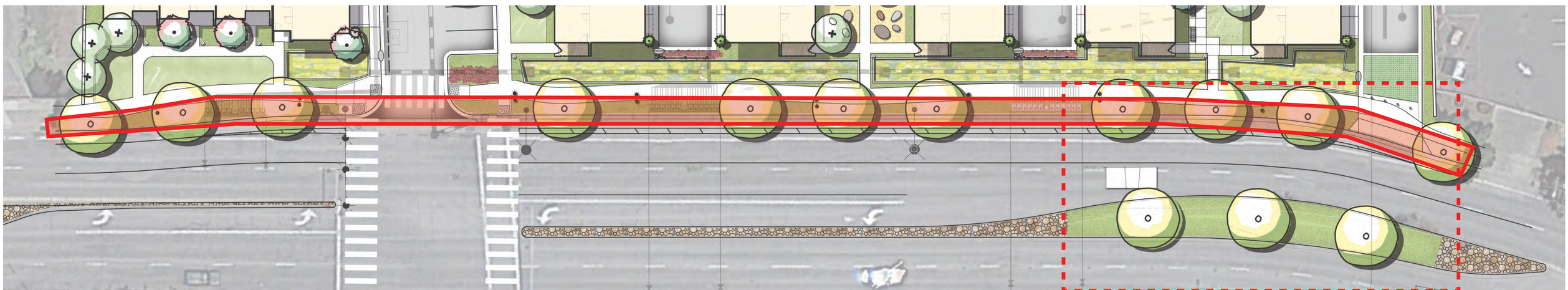




KEY MAP



0 4' 8' 16'



PLANT PALETTE



Platinus acerifolia 'Columbia' | London Plane Tree



Myoporum parvifolium | Myoporum 'Pink'



Teucrium ackermannii | Silver Germander

SEE SHEET L-8

KEY MAP



0 4' 8' 16'

GATES +ASSOCIATES

CEDAR BOULEVARD NEWARK, CALIFORNIA

CEDAR BLVD MEDIAN + STREETSCAPE L-7

JUNE 2023





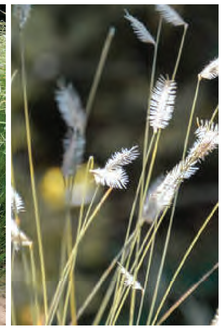
Myoporum parvifolium | Myoporum 'Pink'





Teucrium ackermannii | Silver Germander



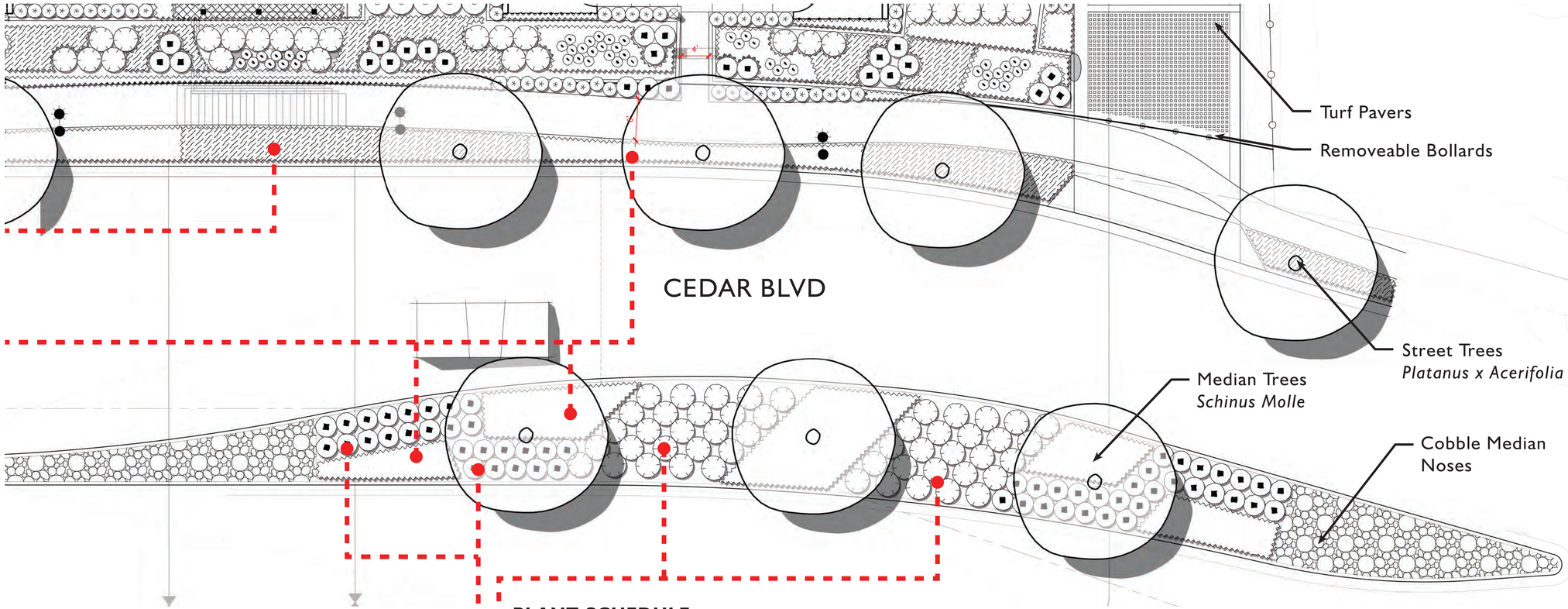


Bouteloua gracilis | Blonde Ambition





Dietes grandiflora | Fortnight Lily



PLANT SCHEDULE

ACCENT TREES	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	SPACING	WIDTH/HEIGHT
ARB	ARBUTUS X 'MARINA'	MARINA STRAWBERRY TREE STANDARD	24"BOX	L	N/A	15'X20'
CER	CERCIS OCCIDENTALIS	WESTERN REDBUD MULTI-TRUNK	24"BOX	VL	N/A	15'X20'
GIN	GINKGO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY MAIDENHAIR TREE	24"BOX	M	N/A	15'X35'
LYO	LYONOTHAMNUS FLORIBUNDUS	CATALINA IRONWOOD	24"BOX	L		12'X35'
MAG	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM DWARF SOUTHERN MAGNOLIA	24"BOX	M	N/A	10'X12'
POD	PODOCARPUS MACROPHYLLUS 'MAKI'	MAKI YEW PODOCARPUS	15 GAL	M		5'X5'
LARGE TREES	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**WATER USE**	**SPACING**	**WIDTH/HEIGHT**
PLA	PLATANUS X ACERIFOLIA 'COLUMBIA'	COLUMBIA LONDON PLANE TREE	24"BOX	M	N/A	30'X40'
QUE	QUERCUS AGRIFOLIA	COAST LIVE OAK	24"BOX	VL	N/A	35'X40'
SCH	SCHINUS MOLLE	CALIFORNIA PEPPER TREE MULTI-TRUNK	24"BOX	VL	N/A	25'X25'
ULM	ULMUS PARVIFOLIA 'DRAKE'	DRAKE LACEBARK ELM	24"BOX	L	N/A	20'X25'
MEDIUM FOUNDATION SHRUBS	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**WATER USE**	**SPACING**	**WIDTH/HEIGHT**
CB	CISTUS X PURPUREUS 'BRILLIANCY'	BRILLIANCY ORCHID ROCK ROSE	5 GAL	L	36" O.C.	3'X3'
DG	DIETES GRANDIFLORA	FORTNIGHT LILY	5 GAL	L	36" O.C.	3'X4'
LG	LAVANDULA ANGUSTIFOLIA 'MUNSTEAD'	MUNSTEAD ENGLISH LAVENDER	5 GAL	L	36" O.C.	3'X2.5'
LL	LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY'	LYNN'S LEGACY LANGMAN'S SAGE	5 GAL	L	48" O.C.	4'X4'
LI	LOMANDRA LONGIFOLIA 'BREEZE' TM	BREEZE MAT RUSH	5 GAL	L	36" O.C.	3'X3'
RM	RHAPHIOLEPIS UMBELLATA 'MINOR'	DWARF YEDDA HAWTHORN	5 GAL	L	36" O.C.	3'X3'
TA	TEUCRIUM FRUTICANS 'AZUREUM'	AZURE BUSH GERMANDER	5 GAL	L	48" O.C.	4'X5'
ACCENT SHRUBS AND ORNAMENTAL GRASSES	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**WATER USE**	**SPACING**	**WIDTH/HEIGHT**
AI	ANIGOZANTHOS X 'HARMONY'	HARMONY YELLOW KANGAROO PAW	5 GAL	L	36" O.C.	3'X2'
BB	BOUTELOUA GRACILIS 'BLONDE AMBITION'	BLONDE AMBITION BLUE GRAMA	1 GAL	L	18" O.C.	1.5'X1.5'
BH	BULBINE FRUTESCENS 'HALLMARK'	HALLMARK STALKED BULBINE	1 GAL	L	18" O.C.	1.5'X1.5'
CK	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	5 GAL	M	30" O.C.	2.5'X3.5'
GN	GREVILLEA X 'NOELLII'	NOEL GREVILLEA	5 GAL	L	48" O.C.	4'X5'
RS	ROSA X 'MEIZORLAND'	WHITE DRIFT GROUNDCOVER ROSE	2 GAL	M	36" O.C.	3'X2'
WA	WESTRINGIA FRUTICOSA 'MUNDI'	COAST ROSEMARY	5 GAL	L	30" O.C.	2.5'X4'
BIOTREATMENT PLANTS	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**WATER USE**	**SPACING**	**WIDTH/HEIGHT**
CY	CEANOTHUS GRISEUS HORIZONTALIS 'YANKEE POINT'	YANKEE POINT CARMEL CREEPER	5 GAL	L	60 O.C.	5' X 1'
CE	CHONDROPETALUM ELEPHANTINUM	LARGE CAPE RUSH	5 GAL	L	48" O.C.	4'X5'
JE	JUNCUS PATENS 'ELK BLUE'	SPREADING RUSH	1 GAL	L	24" O.C.	2'X2'
MA	MUHLENBERGIA DUBIA	PINE MUHLY	1 GAL	L	36" O.C.	3'X4'
TB	NO-MOW SOD	DELTA BLUEGRASS NO-MOW SOD	SOD	L	N/A	
LARGE FOUNDATION SHRUBS	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**WATER USE**	**SPACING**	**WIDTH/HEIGHT**
AH	ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MCMINN'	HOWARD MCMINN VINE HILL MANZANITA	15 GAL	L	96" O.C.	7'X7'
FV	FEIJOA SELLOWIANA	PINEAPPLE GUAVA	15 GAL	M	120" O.C.	10'X10'
MD	MYRTUS COMMUNIS 'COMPACTA'	DWARF COMMON MYRTLE	5 GAL	L	30" O.C.	2.5'X2.5'
PE	PODOCARPUS ELONGATUS 'MONMAL' TM	ICEE BLUE YELLOW WOOD	15 GAL	M	48" O.C.	4'X8'
RE	RHAMNUS CALIFORNICA 'EVE CASE'	CALIFORNIA COFFEEBERRY	5 GAL	L	72" O.C.	6'X6'
LOW GROUNDCOVERS	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**WATER USE**	**SPACING**	**WIDTH/HEIGHT**
AR	ARCTOSTAPHYLOS UVA-URSI 'POINT REYES'	POINT REYES KINNIKINNICK	5 GAL	L	84" O.C.	2.5'X7'
LH	LANTANA X 'NEW GOLD'	NEW GOLD LANTANA	5 GAL	L	48" O.C.	2'X4'
MV	MYOPORUM PARVIFOLIUM 'PINK'	PINK TRAILING MYOPORUM	5 GAL	L	48" O.C.	4'X8'
RH	ROSMARINUS OFFICINALIS 'HUNTINGTON CARPET'	HUNTINGTON CARPET ROSEMARY	5 GAL	L	96" O.C.	8'X2'
TK	TEUCRIUM ACKERMANNII	SILVER GERMANDER	1 GAL	L	18" O.C.	1.5'X3'
GROUND COVERS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**WATER USE**	**SPACING**	**WIDTH/HEIGHT**
TS	TURF SOD	DROUGHT TOLERANT FESCUE BLEND	FLAT			

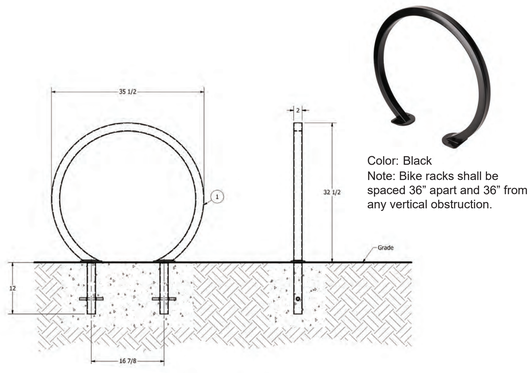
WATER USE RATING LEGEND:
WUCOLS III CATEGORIES OF WATER NEEDS FROM: UNIVERSITY OF CALIF COOPERATIVE EXTENSION, CALIF DEPARTMENT OF WATER RESOURCES, U.S. BUREAU OF RECLAMATION

H = HIGH
M = MODERATE
L = LOW
VL = VERY LOW

KEY MAP

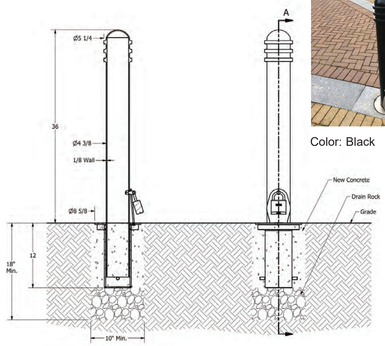


0 4' 8' 16'



Color: Black
Note: Bike racks shall be spaced 36" apart and 36" from any vertical obstruction.

13 Bike Rack
Scale: N.T.S.





Color: Black

10 Bollard
Scale: N.T.S.

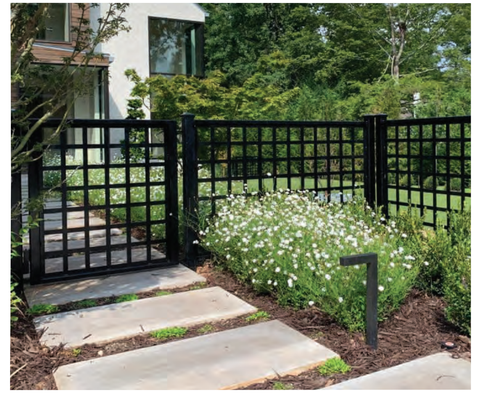


9 Bench



(1) ADA
(1) Standard

6 Picnic Table



Note: Fence to be 36" high max, color to match the building, see architecture plans

3 Patio Fence



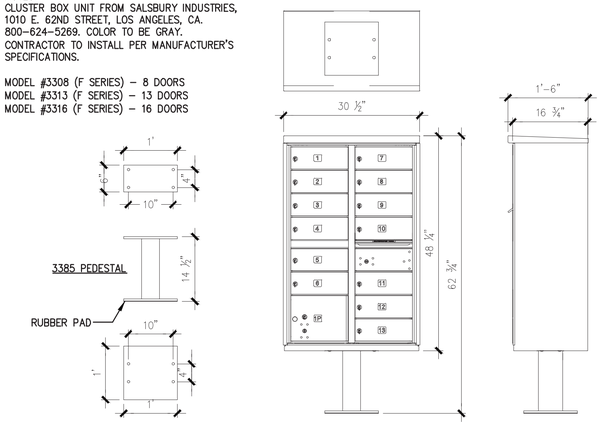
12 Dog Fence - 48" High



8 Wattle Hut

NOTES:
CLUSTER BOX UNIT FROM SALSBURY INDUSTRIES, 1010 E. 62ND STREET, LOS ANGELES, CA. 800-624-5269. COLOR TO BE GRAY.
CONTRACTOR TO INSTALL PER MANUFACTURER'S SPECIFICATIONS.

MODEL #3308 (F SERIES) - 8 DOORS
MODEL #3313 (F SERIES) - 13 DOORS
MODEL #3316 (F SERIES) - 16 DOORS



5 Mailbox
Scale: 3/4" =1'



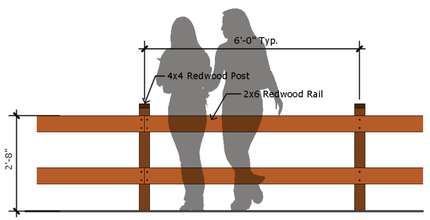
2 Seating Stones



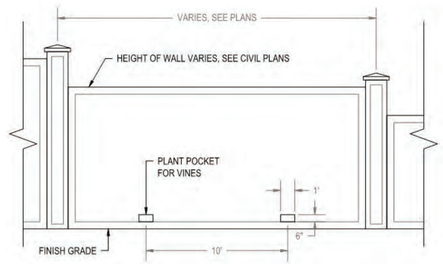
11 Sandstone Bench



7 Birds Nest



4 Wood Rail Fence
Scale: 1/2" =1'





1 PRIVACY SOUND SIERRAWALL - PORTOLA WITH PLANT POCKET
Scale: 1/4" =1'

PLANT SCHEDULE

ACCENT TREES	CODE	COMMON NAME	BOTANICAL NAME
	ARB	MARINA STRAWBERRY TREE STANDARD	ARBUTUS X 'MARINA'
	CER	WESTERN REDBUD MULTI-TRUNK	CERCIS OCCIDENTALIS
	GIN	PRINCETON SENTRY MAIDENHAIR TREE	GINKGO BILOBA 'PRINCETON SENTRY'
	LYO	CATALINA IRONWOOD	LYONOTHAMNUS FLORIBUNDUS
	MAG	LITTLE GEM DWARF SOUTHERN MAGNOLIA	MAGNOLIA GRANDIFLORA 'LITTLE GEM'

LARGE TREES	CODE	COMMON NAME	BOTANICAL NAME
	PLA	COLUMBIA LONDON PLANE TREE	PLATANUS X ACERIFOLIA 'COLUMBIA'
	QUE	COAST LIVE OAK	QUERCUS AGRIFOLIA
	SCH	CALIFORNIA PEPPER TREE MULTI-TRUNK	SCHINUS MOLLE
	ULM	DRAKE LACEBARK ELM	ULMUS PARVIFOLIA 'DRAKE'

FENCE LEGEND

Patio Fence

Patio Wall

WATER CONSERVATION STATEMENT

1. THE PLANT LIST IS PRELIMINARY IN NATURE. SPECIES SHALL BE ADDED AND SUBTRACTED TO FULFILL THE DESIGN AND HORTICULTURAL REQUIREMENTS AS NECESSARY.
2. THE IRRIGATION SYSTEM SHALL BE DESIGNED WITH WATER CONSERVATION IN MIND WHILE ACHIEVING THE GOAL OF EFFECTIVELY AND EFFICIENTLY PROVIDING THE LANDSCAPE WITH WATER BY MEANS OF SPRAY IRRIGATION TO THE SHRUBS/GROUNDCOVER AREAS AND BUBBLERS TO THE TREES.
3. A STATE-OF-THE-ART IRRIGATION CONTROLLER SHALL BE SPECIFIED FOR THIS PROJECT TO CONTROL THE WATER ALLOCATED TO EACH VALVE GROUPED PER INDIVIDUAL HYDROZONE (BASED ON PLANT TYPE AND EXPOSURE).
4. FINAL LANDSCAPE PLAN WILL BE IN COMPLIANCE WITH THE CALIFORNIA MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (CA WELO). PLANS WILL BE SIGNED BY THE LANDSCAPE ARCHITECT WITH THE REQUIRED WELO STATEMENTS INCLUDED.

ADVENTURE PLAY AREA

BLDG 1

BLDG 2

BLDG 3

BLDG 4

BLDG 5

BLDG 6

BLDG 7

BLDG 8

BLDG 9

MINOR ZEN COURTYARD

BLDG 10

BLDG 11

MAIN ZEN COURTYARD

BLDG 12

BLDG 13

VILLAGE GREEN

BLDG 14

GARDEN COURTYARD

BIO RETENTION

GAS EASEMENT

All Existing Pine Trees Along Frontage to be Removed, typ.

CEDAR BLVD

(3) Existing Bottle Brush Trees to be Removed, typ.

0 10' 20' 40'

TREES



Schinus molle
California Pepper Tree



Gingko biloba 'Princeton Sentry'
Princeton Sentry Gingko



Quercus agrifolia
Coast Live Oak



Magnolia grandiflora 'Little Gem'
Little Gem Magnolia



Cercis occidentalis
Western Redbud



Lyonothamnus floribundus
Santa Cruz Island Ironwood



Platanus acerifolia 'Columbia'
London Plane Tree

SHRUBS



Bouteloua gracilis 'Blonde Ambition'
Blonde Ambition Blue Grama Grass



Lavandula angustifolia 'Munstead'
English Lavender



Lomandra longifolia 'Breeze'
Breeze Mat Rush



Cistus x purpureus 'Brillancy'
Brillancy Orchid Rock Rose



Teucrium fruticans 'Azureum'
Bush Germander



Anigozanthos 'Harmony'
Kangaroo Paw Harmony



Rhaphiolepis umbellata 'Minor'
Dwarf Yeddo Hawthorn

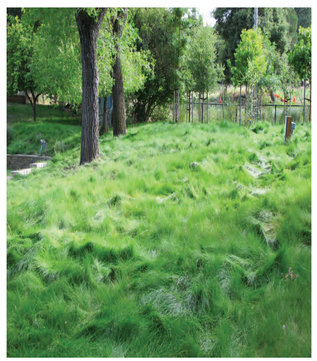
BIOTREATMENT



Chondropetalum elephantinum
Large Cape Rush



Juncus patens 'Elk Blue'
Spreading Rush

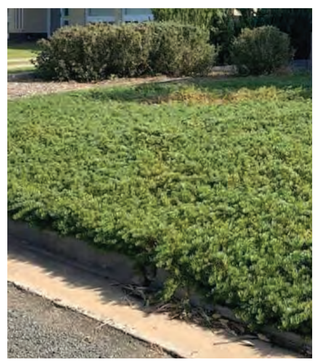


No-Mow Sod
Delta Bluegrass No-Mow Sod

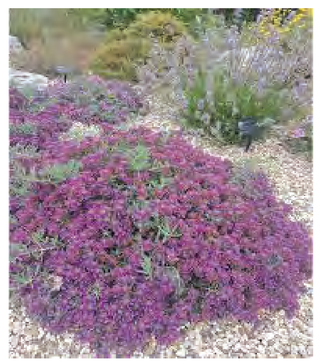
GROUNDCOVERS



Ceanothus griseus horizontalis 'Yankee Point'
Yankee Point Carmel Creeper



Myoporum parvifolium 'Pink'
Pink Trailing Myoporum



Teucrium ackermannii
Silver Germander

LAWN / SOD



Lippia nodiflora 'Kurapia'
Kurapia

ENVIRONMENTAL CHECKLIST FOR STREAMLINED REVIEW

PURSUANT TO CALIFORNIA PUBLIC RESOURCES CODE SECTION 21083.3 AND CEQA GUIDELINES SECTIONS 15168 and 15183

38600 CEDAR BOULEVARD RESIDENTIAL DEVELOPMENT PROJECT

Prepared For:

City of Newark
37101 Newark Boulevard
Newark, CA 94560

Prepared By:

M-Group
51 East Campbell Avenue, #1247
Campbell, CA 95009

July 2023

38600 CEDAR BOULEVARD RESIDENTIAL DEVELOPMENT PROJECT
CEQA ENVIRONMENTAL CHECKLIST FOR STREAMLINED REVIEW

Project Title:	38600 Cedar Boulevard Residential Development Project	
Lead Agency:	City of Newark 37101 Newark Boulevard Newark, CA 94560	
Contact Person:	Carmelisa Lopez, Senior Planner Phone: (510) 578-4215 Email: carmelisa.lopez@newark.org	
Project Location:	38600 Cedar Boulevard, City of Newark, Alameda County, California APNs 92A-2585-12-1 and 92A-2585-31	
Property Sponsor and Owner(s):	Property Owner: Cedar Boulevard Townhomes, LLC 2801 West Coast Highway 270 Newport Beach, CA 92663 925.321.6327	Project Applicant: Brian Steele Waymark Development LLC 3223 Crow Canyon Road Suite 200 San Ramon, CA 94583 925.321.6327
General Plan Designation:	Medium Density Residential (14-30 dwelling units/acre)	
Zoning:	Residential Medium Density (RM)	
Description of Project:	The Project consists of demolition of the existing commercial buildings on an approximately 3.72-acre site and construction of 76 three-story townhomes and associated improvements. The townhomes would range in floor area from 1,334 to 1,823 square feet (sf) with two-car garages and approximately 5,995 sf of private open space in total. Associated improvements would include interior roads for circulation and approximately 16,808 sf of common open space predominantly located at the rear of the site along Interstate-880 (I-880). There would be two access points to the development: one access point from Cedar Boulevard connecting to Moores Avenue and an emergency vehicle access point on the southwestern end of the site along Cedar Boulevard.	
Surrounding land uses and setting; briefly describe the project's surroundings:	The site is surrounded by existing urban uses with commercial development to the northwest on a site that is proposed for residential development consisting of single family-residences and two-unit attached townhouses. An engineered flood control channel, owned and operated by the Alameda County Flood Control and Water Conservation District, separates the Project site from the potentially residential property described above to the northwest. I-880 is located to the northeastern side of the Project site, a motel (EZ 8 Motel) is located to the southern side of the Project site, single-family residences are located to the southwest across Cedar Boulevard.	
Other public agencies whose approval is required (e.g. permits, financial, or participation agreements):	San Francisco Regional Water Quality Control Board (SFRWQCB) Alameda County Water District (ACWD) Alameda County Flood Control and Water Conservation District (ACFCWCD) Alameda-Contra Costa Transit District (AC Transit) California Department of Transportation (Caltrans) Union Sanitary District (USD)	
Have California Native American tribes requested	The City conducted notification within the statutory timeframe provided by Public Resources Code §21080.3.1. Notices were sent to tribes by mail and via email	

consultation pursuant to Public Resources Code section 21080.3.1?	on February 8, 2023. One response from the Confederated Villages of Lisjan Nation was received on February 9, 2023, with a request for additional information regarding the Project site that was provided to the Tribal representative on February 10, 2023. To date, July 2023, the City of Newark has not received any further communication from the above referenced tribe and has not received responses requesting consultation from any other tribes contacted.

38600 CEDAR BOULEVARD RESIDENTIAL DEVELOPMENT PROJECT

TABLE OF CONTENTS **PAGE**

1. INTRODUCTION 6

2. PROJECT DESCRIPTION 6

2.1. VICINITY SETTING 6
2.2. PROJECT SITE SETTING 6
2.3. PROJECT DESCRIPTION 7
2.4. CONSTRUCTION 9
2.5. PUBLIC OUTREACH 9
2.6. ENTITLEMENTS 10

3. APPLICABLE CEQA PROVISIONS AND FINDINGS 14

3.1. GENERAL PLAN EIR (2013 FEIR) 14
3.2. CONSISTENCY WITH PROGRAM EIR (CEQA GUIDELINES SECTION 15168) 14
3.3. APPLICABILITY OF THE 38600 CEDAR BOULEVARD RESIDENTIAL DEVELOPMENT PROJECT TO 15168 14
3.4. GENERAL PLAN/COMMUNITY PLAN EXEMPTION (CEQA GUIDELINES SECTION 15183) 14
3.5. APPLICABILITY OF THE 38600 CEDAR BOULEVARD RESIDENTIAL DEVELOPMENT PROJECT TO 15183 15
3.6. CEQA DETERMINATION AND SUMMARY OF FINDINGS 16
3.7. ENVIRONMENTAL CONDITIONS OF APPROVAL 17

4. EVALUATION OF ENVIRONMENTAL EFFECTS 18

4.1. AESTHETICS 19
4.2. AGRICULTURAL AND FORESTRY RESOURCES 21
4.3. AIR QUALITY 22
4.4. BIOLOGICAL RESOURCES 26
4.5. CULTURAL RESOURCES 29
4.6. ENERGY 32
4.7. GEOLOGY AND SOILS 33
4.8. GREENHOUSE GAS EMISSIONS 36
4.9. HAZARDS AND HAZARDOUS MATERIALS 38
4.10. HYDROLOGY AND WATER QUALITY 43
4.11. LAND USE AND PLANNING 48
4.12. MINERAL RESOURCES 49
4.13. NOISE 50
4.14. POPULATION AND HOUSING 55
4.15. PUBLIC SERVICES 56
4.16. RECREATION 59
4.17. TRANSPORTATION 60
4.18. TRIBAL CULTURAL RESOURCES 66
4.19. UTILITIES AND SERVICE SYSTEMS 68
4.20. WILDFIRE 72
4.21. MANDATORY FINDINGS OF SIGNIFICANCE 73

5. REFERENCE DOCUMENTS 76

5.1. TECHNICAL APPENDICES 76
5.2. OTHER DOCUMENTS REFERENCED 76

6. ENVIRONMENTAL CONDITIONS OF APPROVAL 77

TABLE OF FIGURES

FIGURE 1: REGIONAL LOCATION 10
FIGURE 2: PROJECT VICINITY 11
FIGURE 3: SITE PLAN 13

1. INTRODUCTION

This California Environmental Quality Act (CEQA) Analysis evaluates environmental impacts from the proposed 38600 Cedar Boulevard Residential Development Project, which consists of the demolition of the existing commercial buildings on the approximately 3.72-acre site and construction of 76 three-story townhomes and associated improvements (hereinafter referred to as the "Project"). Documentation herein has been prepared by the City of Newark as the lead agency as defined in Section 15367 of the CEQA Guidelines and in full accordance with the procedural and substantive requirements of CEQA Guidelines. This CEQA Analysis uses streamlining and tiering in accordance with CEQA Guidelines Section 15183 for consistency with the General Plan and the certified Environmental Impact Report (EIR).

2. PROJECT DESCRIPTION

The Project site is located at 38600 Cedar Boulevard (Assessor Parcel Numbers 92A-2585-12-1and 92A-2585-31) in the city of Newark, Alameda County, along Interstate 880 (I-880), which defines the northeastern edge of the city. State Route 84 (SR-84) borders the city to the northwest and San Francisco Bay is located to the west of the city. The city of Fremont borders Newark to the South (**Figure 1: Regional Location**).

2.1. VICINITY SETTING

The Project site is bordered by I-880 to the northeast and Cedar Boulevard to the southwest and is located approximately one-third of a mile northwest of the intersection of I-880 and Mowry Avenue, which is the location of an interchange, allowing access to and from I-880; Mowry Avenue crosses I-880 with an overpass.

The land uses surrounding the project site comprise several commercial buildings to the northwest of the Project site on a site that is proposed for residential development consisting of single family-residences and two-unit attached townhouses. An engineered flood control channel, owned and operated by the Alameda County Flood Control and Water Conservation District, separates the Project site from the potentially residential property described above to the northwest. A motel (EZ 8 Motel) is located to the southern side of the Project site, and single-family residences are located to the southwest across Cedar Boulevard. The City's current General Plan, adopted in 2013, designated parcels immediately to the northwest and southeast of the Project site as Medium Density Residential and High Density Residential, respectively. Land across Cedar Boulevard to the southwest of the project site is designated Low Density Residential. (**Figure 2: Project Vicinity**).

2.2. PROJECT SITE SETTING

The Project site carries a Medium Density Residential land use designation and is zoned Residential Medium Density (RM) (**Figure 3 Land Use and Zoning**). The Medium Density Residential land use designation allows for 14-30 units per net acre and is intended for garden apartments and condominiums, townhomes, row houses, 4 to 8-plexes, and older areas that contain a mix of multi-family and single-family homes within the 14-30 units per net acre density range. This land use designation is implemented by the RM zoning applicable to the Project site. The Project site is a part of the Cedar Boulevard Industrial to Residential Conversion area identified as Site "G" in the City of Newark Housing Element Update 2015 as part of the Regional Housing Needs Assessment (RHNA).

The 3.72-acre Project site consists of two parcels and contains multiple easements. The Project site also includes portions of excess City right-of-way and a street remnant of Timber Street (formerly Cedar Road) between the Project site and I-880. The excess City right-of-way parcel is located to the west of I-880 and is approximately 4,610 sf in area. The street remnant of the Timber Street parcel is located along the easterly boundary of the Project site and is approximately 7,444 sf in area. On February 23, 2023, the City of Newark City Council authorized the City Manager to execute the Purchase Sale Agreement (PSA) to complete the sale and conveyance of the City property to the property owner of the Project site to be incorporated into the Project. Pursuant to the PSA (executed on February 23, 2023), the purchase of the City property must be completed within 120 days after the City Council's approval of the Project, or such earlier date as mutually agreed upon by the City and property owner.

The Project site is currently developed with three buildings totaling 34,219 square feet. A warehouse building, constructed in 1979, is located on the northwest side, an L-shaped garage building occupied by a garage and offices and a ranch style office building, both constructed in 1962, are located in the southeastern portion of the Project site.

The garage building is occupied by a garage and offices. The warehouse and the garage buildings are clad in corrugated metal sheets with metal roof and are utilitarian buildings. The ranch style office is so called because of the style of the building. It is a one story, wood framed building with very shallow-pitched cross hip and gable roofs. The building is finished in stucco with stone cladding at the entry and horizontal wood under the gable ends of the composition shingle roof. The remainder of the site is occupied by a parking lot and is devoid of vegetation and trees with the exception of shrubbery along the rear property boundary. Grown coniferous trees are located in the Cedar Boulevard right-of-way at the front of the Project site, which is fenced in with a metal fence with plastic planks to this (southwest) side.

The Project site is accessed via one, two-way driveway, which is located in line with Moores Avenue that meets Cedar Boulevard on its southwest side. A bus stop served by AC Transit is located at the front of the Project site, near the Cedar Boulevard and Moores Avenue intersection. Sidewalks and Class II[1] bicycle lanes are located on both sides of Cedar Boulevard fronting the Project site.

The Project site has been historically used for construction and agricultural equipment rental, sales, and/or repair businesses and is currently used as a construction and forestry equipment rental facility. Five underground storage tanks (USTs) were removed from the site in 1989. Currently, there are hazardous materials, petroleum-containing products, and other features of potential environmental concern identified on the site, including but not limited to, two active concrete above-ground storage tanks (ASTs) which contained diesel and used waste oil, and four empty ASTs that formerly contained oil and petroleum products. The uses of the Project site have led to hazardous materials contamination on the site. The Project site is included on the Cortese List[2] as a hazardous waste materials site with open Leaking Underground Storage (LUST) and Program Clean Up cases (Case No. NORTRAX WEST T0600100516 and Case No. NORTAX WEST SCP T10000020483, respectively), as identified on the State Water Resources Control Board's GeoTracker Database with ongoing site assessment activities[3].

2.3. PROJECT DESCRIPTION

The 38600 Cedar Boulevard Residential Development Project proposes demolition of all existing buildings, pavement, and improvements on the Project site and construction of 76 alley-loaded three-story, three- and four-bedroom residential units that would range in floor area from 1,334 sf to 1,823 sf on the approximately 3.72-acre site (Project). The 76 residential units would be provided in a grouping of five- and six-plex buildings. The Project would include 190 parking spaces, a two-car garage for each residential unit totaling 152 garage parking spaces and a total of 38 surface parking spaces for guests that would include six electric vehicle (EV) spaces. These spaces would be located near the front entrance and the southeastern corner of the Project site. Each residential garage would also be EV-ready. The Project's energy supply would be required to be electric with high-efficiency appliances. The proposed buildings would feature high-performance windows and Cool Roofs[4]. Additionally, the Project would include sustainability features consisting of low flow fixtures, solar-ready homes and drought tolerant landscaping.

The residences would provide a total of 5,995 sf in private open space consisting of second floor balconies. Additionally, the Project proposes first (ground) floor patios with the residences. 16,808 sf of common open

1 Lanes on roadways designated for use by bicycles through striping, pavement legends, and signs.
2 The provisions in Government Code Section 65962.5, pursuant to which hazardous waste materials sites are compiled, are commonly referred to as the Cortese List. A property is considered on the Cortese List if it appears on one or more lists or databases maintained by state regulatory agencies.
3 As defined by the State Water Resources Control Board site assessment activities include, but are not limited to, identification of the contaminants and the investigation of their potential impacts, determination of the threats/impacts to water quality, evaluation of the risk to humans and ecology, delineation of the nature and extent of contamination, delineation of the contaminant plume(s), and development of the Site Conceptual Model.
4 Cool Roofs are designed to reflect more sunlight than a conventional roof, absorbing less solar energy.

space would be provided predominantly along the rear property line of the Project site. There would be some common open space in five other locations on site, as shown in **Figure 3. Site Plan**. New landscaping including trees, shrubs, and groundcover would be provided near the entrance to the site and along pedestrian walkways between the buildings. Pedestrian bollard lights would be provided along the interior walkways and downward light fixtures would be located at each of the garage entrances to the residential units. Additionally, downward pole lighting would be located predominantly along the periphery of the Project site as shown in **Sheet L-3** of the Project plans (**Appendix G**).

As shown in **Figure 3. Site Plan**, the Project would be accessed via a two-way driveway into the site from the signalized intersection at Cedar Boulevard and Moores Avenue. Site circulation would consist of a private internal road that would serve as the central spine and continue as an Emergency Vehicle Access (EVA) out to Cedar Boulevard at the southwestern end of the Project site. 24'-0" wide alleyways would branch out from the central spine to provide access to the 14 residential buildings via two-car garages on the ground floor of each residential unit. Landscaped pedestrian walkways would provide access to the front doors of the residences as shown in **Sheet L-1** of the Project Plans (**Appendix A**) with the walkways between the buildings on the southwest side of the central spine extending out to Cedar Boulevard.

As mentioned above, the site contains multiple easements, which would be addressed in the site design. The easements that would remain on the site are located within the driveway into the site and within the proposed open space at the rear of the Project site.

Off-Site Improvements.

The Project would include the following off-site improvements:

- Widening of Cedar Boulevard on its northeast side along the Project site frontage that would accommodate a 12-foot travel lane, an 11-foot travel lane, a 2-foot bike buffer, and a 5-foot bike lane with a four-to six-foot wide parkway strip behind the curb and 6-foot wide separated meandering sidewalk included in the street section.

- Extension of the existing Cedar Boulevard landscape median island toward the north to create a dedicated left turn pocket at the Cedar Boulevard-Moores Avenue intersection.

- Relocation behind the new curb line of existing utilities including streetlights, fire hydrants, water meters, joint trench boxes as well as the existing storm drainage inlet located at the proposed Project's entrance.

- Relocation behind the new curb line of existing traffic signal heads and pole in the southeast quadrant of the Cedar Boulevard-Moores Avenue intersection.

- New directional curb ramps at the Project entrance and new crosswalks on the eastern and northern legs of the Cedar Boulevard-Moores Avenue intersection.

- Restriping of crosswalk on the southern leg of the intersection to match the new directional curb ramp locations and pedestrian push button location and in the northeastern half of Cedar Boulevard to match the proposed lane widths.

- Installation of a new Cedar Boulevard landscape median north of Moores Avenue intersection to create a dedicated left turn pocket into the project entrance. The landscape median will connect to the new landscape median that will be constructed with the adjacent project.

- A traffic signal and crosswalk improvements at the Cedar Boulevard and Smith Avenue intersection, in accordance with condition of approval (COA) TRAN-1. Traffic signal plans shall be prepared, reviewed, and approved as part of the Project's improvement plans. The adjacent residential development to the west of the Project site is similarly conditioned to provide the traffic signal improvements at Cedar Boulevard and Smith Avenue. If, at the time of final map approval, the

applicant of the adjacent residential development has already provided guarantee(s) or other appropriate improvement security for the traffic signal, the Project will not be required to install the traffic signal.

Existing curb and gutter along the Project Frontage and an existing power pole and guy wire at the Cedar Boulevard-Moores Avenue intersection would be removed for the road widening and existing overhead lines will be undergrounded to the nearest existing power pole on Moores Avenue. Existing overhead lines along the project's easterly property line (adjacent to the I-880 freeway) will also be undergrounded and existing power poles removed.

2.4. CONSTRUCTION

For the purposes of this analysis, it is assumed that construction of the Project would begin in the fourth quarter of 2023 and would take approximately one and a half years to complete. Construction would include demolition, site preparation & grading, utility & building construction, paving, and landscaping/architectural finishes. Construction vehicles would access the site via Cedar Boulevard with construction traffic routed along to and from I-880 via Mowry Avenue to Cedar Boulevard. Construction staging areas will be determined at the time of construction.

Demolition.

This construction phase would include demolition and removal of existing buildings, pavement, service utilities, and above ground storage tanks. The Project proposes to reuse the material that can be reused on site; the demolition material that cannot be used would be hauled off to the Fremont Recycling and Transfer facility on Boyce Road in Fremont. Demolition equipment would include, but not be limited to, concrete saws, excavators, and dozers. Demolition is anticipated to take approximately one month to be completed.

Site Preparation and Grading.

Site preparation and grading would follow demolition activity to allow for the proposed residential development and associated improvements. Grading onsite would result in 9,000 cubic yards of cut and 9,000 cubic yards of fill. As such, the site preparation activities would not result in the export of material. Construction equipment required to accomplish this phase of the construction would include dozers, tractors, loaders, backhoes, excavators, and graders. Site preparation and grading is anticipated to take approximately three weeks to complete.

Utility and Building Construction.

This phase would include construction of the proposed residential buildings and installation of utilities and would require the use of cranes, forklifts, generator sets, welders, tractors, loaders, and backhoes to be accomplished. This phase is anticipated to take approximately one year to be completed.

Street Paving

This phase would entail final street paving across the site that would require the use of cement/mortar mixers, pavers, and rollers. Street paving is anticipated to take approximately one month to be completed.

Architectural Finishes and Landscaping.

This phase would conclude Project construction and would require the use of air compressors for construction equipment. This phase is anticipated to be completed in two months.

2.5. PUBLIC OUTREACH

The applicant provided notice of a community meeting ten days in advance via mail to property owners within 500 feet radius of the Project site. The meeting was conducted on the Project site on April 17, 2023. Three people attended the meeting and received information, but no written comments were submitted.

2.6. ENTITLEMENTS

The Project applicant has requested the following entitlements:

1. Vesting Tentative Map to create one lot and 76 condominium units;
2. Design Review of the proposed buildings and site improvements; and
3. Minor Use Permit for buildings heights above 35’-0” and fences/walls above 6’-0”.

Figure 1: Regional Location



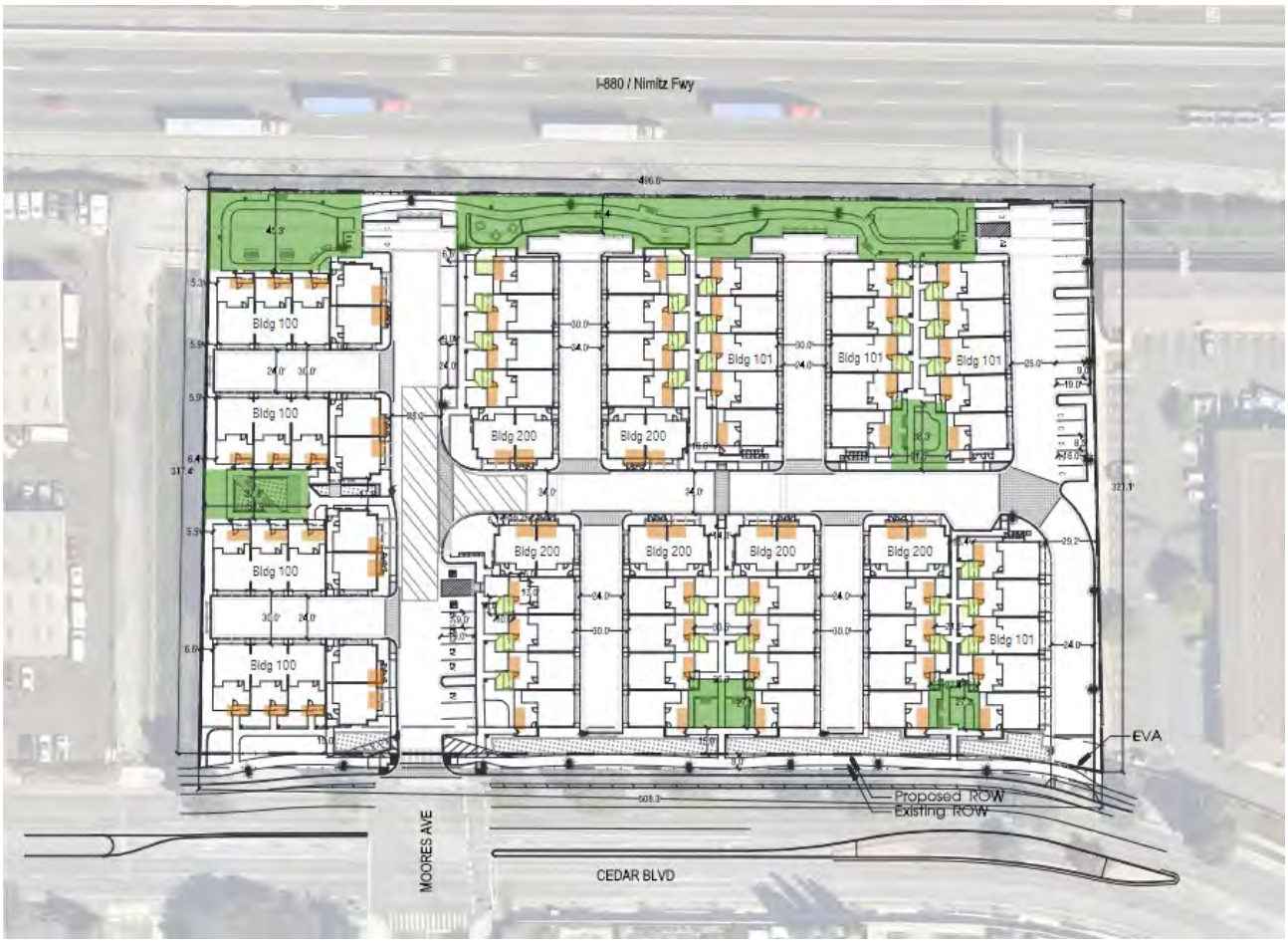
Source: Google Earth, Imagery Dated, July 9, 2022

Figure 2: Project Site and Vicinity



Source: Google Earth, Imagery Dated, July 9, 2022

Figure 3: Site Plan



Source: Project Plans, Dated June 20, 2023

3. APPLICABLE CEQA PROVISIONS AND FINDINGS

The following discussion presents the relevant provisions of CEQA to which the proposed 38600 Cedar Boulevard Residential Development Project complies. It provides an overview of the Community Plan Exemption, determination of consistency with the City's program level Environmental Impact Report (EIR) for the General Plan (referred to as "General Plan Tune Up" in the 2013 FEIR) and the Final Environmental Impact Report (FEIR), 2013. A description of how the Project complies with each provision is presented below. Finally, this section concludes with the CEQA finding and determination that the project is exempt from further environmental review.

3.1. GENERAL PLAN EIR (2013 FEIR)

The City of Newark General Plan that was adopted in 2013 serves as the document that guides future development citywide and expresses the community's development goals and public policies relative to land uses. The General Plan EIR (2013 FEIR) assesses potentially significant environmental impacts associated with implementation of the General Plan. The 2013 FEIR was prepared in order to provide the public, responsible agencies, and decision makers with information about the probable environmental effects of adoption and implementation of the General Plan. The 2013 FEIR serves as a programmatic document that is intended to be used to evaluate subsequent projects and activities within the planning area. The findings of the 2013 FEIR are presented below in Section 4 for each environmental category.

3.2. CONSISTENCY WITH PROGRAM EIR (CEQA GUIDELINES SECTION 15168)

The City of Newark certified the 2013 FEIR, a program level EIR, that includes an analysis of the development potential of the 38600 Cedar Boulevard site. The 2013 FEIR provides for streamlining and/or tiering opportunities under CEQA Guidelines Section 15168. CEQA Guidelines Section 15168(c) states that "later activities in the program must be examined in the light of the program EIR to determine whether an additional environmental document must be prepared."

3.3. APPLICABILITY OF THE 38600 CEDAR BOULEVARD RESIDENTIAL DEVELOPMENT PROJECT TO 15168

The proposed 38600 Cedar Boulevard Residential Development Project is a "later activity" of the program EIR. Section 4 of this CEQA Analysis provides an assessment of the Project's environmental impacts relative to what was analyzed in the 2013 FEIR. As described in Section 4, the Project, does not result in environmental effects that were not previously examined. As such, pursuant to CEQA Guidelines Section 15162 and 15163, no subsequent or supplemental EIR is required. In accordance with CEQA Guidelines Section 15168(c)(2), the City can "approve the activity as being within the scope of the project covered by the program EIR, and no new environmental document would be required."

CEQA Guidelines Section 15168(c)(3) states that "an agency shall incorporate all feasible mitigation measures and alternatives developed in the program EIR into later activities in the program." Section 6 of this CEQA analysis identifies the relevant environmental conditions of approval that will be required of the proposed Project to demonstrate compliance with mitigation measures set forth in the program level EIR, and policies, programs, and goals of the City of Newark General Plan.

As described below in Section 4, for each environmental resource topic in the Environmental Checklist, with implementation of mitigation measures, the proposed project would not result in significant impacts beyond those analyzed in the 2013 FEIR. In addition, the project is subject to the payment of Development Impact Fees, which are collected to offset incremental increases in demands for public services and infrastructure from implementation of the General Plan.

3.4. GENERAL PLAN/COMMUNITY PLAN EXEMPTION (CEQA GUIDELINES SECTION 15183)

California Public Resources Code Section 21083.3 and CEQA Guidelines Section 15183 allow a streamlined environmental review process for projects that are consistent with the densities established by existing zoning, community plan, or general plan policies for which an EIR was certified.

Section 15183 (a) “mandates that projects which are consistent with the development density established by existing zoning, community plan, or general plan policies for which an EIR was certified shall not require additional environmental review, except as might be necessary to examine whether there are project-specific significant effects which are peculiar to the project or its site. This streamlines the review of such projects and reduces the need to prepare repetitive environmental studies.”

Section 15183(b) specifies that “in approving a project meeting the requirements of Section 15183, a public agency shall limit its examination of environmental effects to those which the agency determines, in an initial study or other analysis:

1) Are peculiar to the project or the parcel on which the project would be located;

2) Were not analyzed as significant effects in a prior EIR on the zoning action, general plan, or community plan, with which the project is consistent;

3) Are potentially significant off-site impacts and cumulative impacts which were not discussed in the prior EIR prepared for the general plan, community plan or zoning action; or

4) Are previously identified significant effects which, as a result of substantial new information which was not known at the time the EIR was certified, are determined to have a more severe adverse impact than discussed in the prior EIR.”

Section 15183(c) specifies that if an impact is not peculiar to the parcel or to the project, has been addressed as a significant effect in the prior EIR, or can be substantially mitigated by the imposition of uniformly applied development policies or standards, then an additional EIR need not be prepared for the project solely on the basis of that impact.

Section 15183(d) further states that the streamlining provisions of this section “shall apply only to projects that meet the following conditions:

(1) the project is consistent with a community plan adopted as part of a general plan, a zoning action which zoned or designated the parcel on which the project would be located to accommodate a particular density of development, or a general plan of a local agency; and

(2) an EIR was certified by the lead agency for the zoning action, the community plan, or the general plan.”

3.5. APPLICABILITY OF THE 38600 CEDAR BOULEVARD RESIDENTIAL DEVELOPMENT PROJECT TO 15183

The proposed 38600 Cedar Boulevard Residential Development Project is consistent with the General Plan land use designation and zoning for the site, as outlined below, and meets the streamlining provisions under CEQA Guidelines Section 15183(d)(1):

(d)(1)(A) The project is consistent with a community plan adopted as part of a general plan.

The City of Newark General Plan was approved and the EIR (SCH Number 2013012052) was certified on November 12, 2013, by City Council Resolution Number 10,415. The Project is located in the eastern part of Newark on a site that carries a Medium Density Residential land use designation and is zoned Residential Medium Density (RM). The Medium Density Residential land use designation allows for 14-30 units per net acre and is intended for garden apartments and condominiums, townhomes, row houses, 4 to 8-plexes, and older areas that contain a mix of multi-family and single-family homes within the 14-30 units per net acre density range.

Consistent with the density and intent of the Medium Density Residential land use designation, the Project proposes construction of 76 alley-loaded three-story, three- and four-bedroom residential units (townhomes) upon demolition of all existing buildings, pavement, and improvements on the Project site. The Project site is also a part of the Cedar Boulevard Industrial to Residential Conversion area identified as Site “G” in the City

of Newark Housing Element Update 2015 as part of the Regional Housing Needs Assessment (RHNA) for development as an infill site within the range of densities proposed and planned for in the City's General Plan.

(d)(1)(B) The project is consistent with a zoning action which zoned or designated the parcel on which the project would be located to accommodate a particular density of development.

The Project is subject to and consistent with the applicable development standards and zoning requirements within the General Plan and the City of Newark Zoning Code (Title 17 of the Newark Municipal Code). The Project meets applicable policies and actions of the General Plan and the applicable development standards within the Zoning Code.

(d)(1)(C) The project is consistent with the City of Newark General Plan.

As described above, The Project is proposed and would be developed consistent with the density and intent of the Medium Density Residential designation of the City's General Plan. The proposed Project is consistent with applicable General Plan policies, including, but not limited to:

- Policy LU-1.7 Executive Housing. Develop and maintain a range of housing types in the city, including executive housing which provides residents with opportunities for "move up" housing within the city.

- Policy LU-2.2 Context-Sensitive Design. Require that new structures, additions, and major renovations are aesthetically compatible with existing structures and the surrounding context, and contribute positively to the visual quality of neighborhoods.

- Policy LU-2.4 Buffering from Transportation Facilities. Ensure that the design of new residential development near rail lines, truck routes, freeways, or major thoroughfares includes setbacks, landscape screening, and other provisions to minimize exposure to negative impacts such as noise and air pollution.

- Policy LU-2.8 Relating Density to Transit Service. Allow higher residential densities in areas with more frequent and reliable public transit service, and ensure that public transit services are expanded in areas where growth is projected.

- Policy HW-2.1 Promoting Walking and Bicycling. Promote walking and bicycling as a healthier and more appealing alternative to driving for short-distance trips. This should include improved safety features such as marked crosswalks, high-visibility road markings, crossing islands, curb extensions, and other improvements that improve pedestrian safety. It should also include streetscape, landscaping, and bike lane improvements that make walking and bicycling more comfortable and pleasant.

- Policy T-2.2 Pedestrian Facilities. Work to close gaps in the pedestrian network and improve sidewalk connectivity between residential and commercial areas. Develop curbs, gutters, and sidewalks on all remaining Newark streets not yet fully improved to encourage safe, convenient pedestrian travel. Where appropriate, include marked crosswalks at intersections and install pedestrian countdowns at traffic signals to facilitate safe pedestrian movement across City streets.

3.6. CEQA DETERMINATION AND SUMMARY OF FINDINGS

As summarized above and presented herein, the proposed 38600 Cedar Boulevard Residential Development Project is eligible for the following CEQA exemptions:

Consistency with Program EIR. The City of Newark 2013 FEIR provides for streamlining and/or tiering provisions under CEQA Guidelines Section 15168. This CEQA Analysis demonstrates that the Project would not result in substantial changes or involve new information that would warrant preparation of a subsequent EIR because the level of development proposed is within the development assumptions analyzed in the program level EIR (2013 FEIR). No further environmental review is required.

Community Plan Exemption. Streamlined environmental review per Section 15183 of the CEQA Guidelines and California Public Resources Code Section 21083.3. The Project is consistent with the General Plan and will not result in significant environmental impacts that were not previously identified as significant project-level, cumulative or offsite effects in the 2013 FEIR. The Project is exempt from further CEQA review since it is consistent with the General Plan.

Findings Summary

As described herein, the proposed 38600 Cedar Boulevard Residential Development Project is within the scope of development projected under the General Plan for which an EIR was certified in 2013. The proposed Project will implement applicable mitigation measures identified in the 2013 FEIR. In addition, the Project would be required to comply with applicable conditions of approval and subject to uniformly applied development standards. With implementation of required mitigation measures and conditions of approval, the Project would not result in a substantial increase in the severity or significant impacts that were previously identified in the program level EIR, nor would the Project introduce any new significant impacts that were not previously identified. Therefore, there would be no additional environmental impacts beyond those analyzed in the 2013 FEIR.

3.7. ENVIRONMENTAL CONDITIONS OF APPROVAL

The Project shall incorporate all feasible mitigation measures set forth in findings of fact for prior applicable Environmental Impact Reports (EIR). The following EIRs have been determined by the City to be applicable to the Project:

- City of Newark General Plan EIR (SCH Number 2013012052)

In each impact section of the Evaluation of Environmental Impacts, applicable mitigation measures from the findings of fact for the certified EIR are identified. Section 6 of this CEQA Analysis identifies relevant conditions of approval for the Project derived from mitigation measures, policies, and implementing programs established in the City's General Plan and the certified 2013 FEIR.

Conditions of approval have been identified throughout the following analysis to ensure implementation of applicable mitigation measures and policies set forth in the General Plan and its EIR. The 38600 Cedar Boulevard Residential Development Project applicant has reviewed, accepted, and shall implement all conditions of approval as part of the Project.

4. EVALUATION OF ENVIRONMENTAL EFFECTS

This section examines the Project's potential environmental effects within the parameters outlined in CEQA Guidelines Section 15183(b). The "Prior EIRs" (as defined in CEQA Guidelines Section 15183(b)(3)) is the City of Newark General Plan EIR (2013 FEIR), inclusive of all impact determinations, significance thresholds and mitigation measures identified therein.

Th evaluation builds from the Appendix G Environmental Checklist and has been modified to reflect the parameters outlined in CEQA Guidelines Section 15183(b). The checkboxes in the evaluation below indicate whether the proposed Project would result in environmental impacts, as follows:

- **New Significant Impact –** The proposed Project would result in a new significant impact that was not previously identified in the 2013 FEIR.

- **Substantial Increase in Severity of Previously Identified Significant Impact in GP EIR –** The proposed Project's specific impact would be substantially greater than the specific impact described in the 2013 FEIR.

- **Substantial Change Relative to GP EIR –** The proposed Project would involve a substantial change from analysis conducted in the 2013 FEIR.

- **Equal or Less Severity of Impact than Previously Identified in GP EIR –** The severity of the specific impact of the proposed Project would be the same as or less than the severity of the specific impact described in the 2013 FEIR.

Where the severity of the impacts of the proposed Project would be the same as or less than the severity of the impacts described in the 2013 FEIR, the checkbox for Equal or Less Severity of Impact Previously Identified in FEIR is checked. Where the checkbox for Substantial Increase in Severity of Previously Identified Significant Impact in FEIR or New Significant Impact is checked, there are significant impacts that are:

- Peculiar to project or project site (CEQA Guidelines Section 15183[b][3]);

- Not analyzed as significant impacts in the previous EIRs, including off-site and cumulative impacts (CEQA Guidelines Section 15183[b][2]);

- Due to substantial changes in the project (CEQA Guidelines Section 15162[a][1]);

- Due to substantial changes in circumstances under which the project will be undertaken (CEQA Guidelines Section 15162[a][2]); or

- Due to substantial new information not known at the time the EIRs were certified (CEQA Guidelines Sections 15162[a][3] and 15183[b][4]).

As described herein, the proposed Project will be required to comply with all applicable mitigation measures identified in the 2013 FEIR.

This evaluation hereby incorporates by reference the 2013 FEIR discussion and analysis of all environmental topics. The 2013 FEIR significance thresholds have been consolidated and abbreviated in this Checklist; a complete list of the significance thresholds can be found in the 2013 FEIR.

The 2013 FEIR is a program level document that considers the combined effects of implementing several related projects. As such, the analyses presented in the 2013 FEIR represent a cumulative analysis of environmental impacts that may occur from buildout of the General Plan.

4.1. AESTHETICS

Except as provided in Public Resources Code Section 21099, would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☐	☒
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☐	☒
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☐	☒

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013; Architectural Plan Set, prepared by WHA Architects, Planners, Designers., dated April 21, 2023.

General Plan EIR Findings

The 2013 FEIR evaluated potential impacts to aesthetics in Chapter 4.1 in the Plan Area incorporating the City of Newark and determined the following:

- Impact AES-1: The proposed Plan would not have a substantial adverse effect on a scenic vista and the impact of the proposed Plan on scenic vistas subject to the City of Newark Municipal Code (NMC), Chapter 17.16.220 Design Guidelines and implementation of General Plan Policies LU-4.13, LU-4.14 and POS-1.6. This impact is considered to be less than significant.

- Impact AES-2: The proposed Plan would not substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings, within a State scenic highway and the proposed Plan would have no impact on these resources.

- Impact AES-3: The proposed Plan would result in a significant impact to the visual character of the Southwest Newark Residential and Recreational Focus Area and there is no feasible mitigation which would reduce impacts to a less-than significant level. This impact would be significant and unavoidable. A statement of overriding consideration was adopted with certification of the 2013 FEIR.

- Impact AES-4: The Plan would not create a new source of substantial light or glare which would adversely affect day or nighttime views in the area subject to compliance with NMC regulations intended to limit adverse light and glare impacts and the implementation of General Plan Policies LU-4.7 and PROS-3.5. This impact is considered less than significant.

General Plan Policies and Actions would render most impacts less than significant, however not all impacts may be reduced to less than significant levels. A statement of overriding consideration was adopted with the certification of the 2013 FEIR.

Project Consistency with the 2013 FEIR

4.1(a) (Scenic Vistas) No Change Relative to the 2013 FEIR: The 2013 FEIR determined that there are no designated scenic vistas within the City and the General Plan does not identify any specific vistas or views for special protection in the future. However, views of the Coyote Hills to the northeast, of Mission Peak to the east, and of the East Bay Hills to the east and southeast are available from open spaces within the Plan Area. The 2013 FEIR concluded impacts to scenic vistas would be less than significant with implementation of the General Plan.

The Project proposes the construction of 76 three-story residential units that would replace the existing one-story buildings on the Project site consistent with the use and density contemplated by the General Plan. The closest open spaces to the project site are Byington Park on Central Avenue and Birch Grove Park on Birch Street. There could potentially be distant views of the hills to the east from these open spaces, however, these views are obscured by existing development. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.1(b) (Scenic Highways) No Change Relative to the 2013 FEIR: The 2013 FEIR determined that there are no State designated scenic highways in or adjacent to Newark. Accordingly, the Project will have no impact on scenic resources within a state scenic highway. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.1(c) (Scenic Quality) No Change Relative to the 2013 FEIR: The 2013 FEIR determined that there would be significant and unavoidable impacts related to scenic quality in the Southwest Newark Residential and Recreational Focus Area. The Project site is located away from this area near the eastern edges of the city, adjacent to I-880. The 3.72-acre Project site is zoned Residential Medium Density (RM) and would be developed with a total of with 76 residential units at a density of 20.43 units per acre that is within the allowable density of 14-30 units per acre in the RM zoning district. The Project would be required to comply with Policy LU-4.12 of the City's General Plan regarding fences and gates that would be required to be compatible with adjacent structures and with the neighborhood context. Through the design review process, the Project would also be required to comply with Policy LU-2.2 regarding context-sensitive design such that the Project would be aesthetically compatible with existing structures and the surrounding context, and would contribute positively to the visual quality of neighborhoods. The Project would not have any substantial adverse effect on scenic vistas as discussed in 4.1(a) above and would not conflict with General Plan Policy LU-4.14 that speaks to the protection and enhancement of panoramic views and vistas of horizon features such as Coyote Hills, Mission Peak, the East Bay and Peninsula Hills, and San Francisco Bay. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.1(d) (Lighting and Glare) No Change Relative to the 2013 FEIR: The 2013 FEIR determined that future development under the General Plan may create new sources of light and glare, but determined that in the urbanized context of Newark this increase would not substantially and adversely affect daytime or nighttime views. The 2013 FEIR identified compliance with the NMC regulations intended to limit adverse light and glare impacts and the implementation of General Plan Policies LU-4.7 and PROS-3.5 as the means to address adverse light and glare impacts.

Proposed exterior lighting would be in conformance with Policy LU-4.7 and applicable provisions of the NMC implemented through a standard condition of Design Review approval such that it is directed on-site and not create glare off-site. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

Conclusion and Environmental Conditions of Approval

The Project would not result in any substantial new or more severe impacts to aesthetics relative to what was identified in the 2013 FEIR. The Project would be required to comply with City of Newark regulations that implement General Plan policies, including Zoning Code standards intended to limit adverse light and glare impacts captured in the following environmental condition of approval:

COA AES-1: All exterior lighting shall comply with all applicable regulations in NMC §17.17.060 (Lighting and Illumination) and NMC Chapter 17.23 (Parking and Loading). All exterior lighting shall be directed on-site so as not to create glare off-site, as required by the Community Development Director.

4.2. AGRICULTURAL AND FORESTRY RESOURCES

Would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013; and California Department of Conservation Farmland Mapping and Monitoring Program.

General Plan EIR Findings

The 2013 General Plan Tune Up EIR determined under Chapter 7.1 that implementation of the General Plan would not result in any potentially significant impacts to agricultural and forestry resources because the city is located in a highly urbanized sector of Alameda County. There are no forest resources or timberland resource zones in Newark or the surrounding area, and there is no active timberland production in the general vicinity of the Plan Area. And conversion to nonagricultural uses of portions of the Plan Area that are in agricultural use would not make a cumulatively considerable contribution to the loss of agricultural lands in the surrounding area.

Project Consistency with the 2013 FEIR

4.2(a-e) (Farmland, Agricultural Land, Forest Land) No Change Relative to the 2013 FEIR: The 2013 FEIR determined that buildout would result in a less than significant impact to agricultural resources. The Project site is highly developed with existing buildings and paving. It does not contain farmland or forest land pursuant to Section 12220(g) of the Public Resources Code. As the Project is within the scope of development projected under the General Plan/Specific Plan and the 2013 FEIR, there would be no additional impacts to agricultural and forestry resources beyond those analyzed in the 2013 FEIR.

Conclusion

The Project would not result in any new or more severe impacts to agricultural and forestry resources relative to what was identified in the 2013 FEIR. The Project consists of development within an urban context that would not impact agricultural or forestland resources and is consistent with the City's General Plan. No environmental conditions of approval related to agriculture and forestry resources are required.

4.3. AIR QUALITY

Would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c) Exposure of sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013; Air Quality and Greenhouse Gas Analysis, prepared by LSA, November 7, 2022.

General Plan EIR Findings

The 2013 FEIR evaluated potential impacts to air quality in Chapter 4.2 of the General Plan Tune Up EIR and determined the following:

- Impact AIR-1: Buildout of the proposed project (General Plan) would not be consistent with the Bay Area Clean Air Plan (2010) because the projected vehicle miles traveled (VMT) increase from the build out would be greater than the projected population increase. Although the General Plan contains goals, policies and actions to address future increase in VMT and criteria air pollutants, the impact would be significant and unavoidable, and there are no available mitigation measures. A statement of overriding consideration was adopted with certification of the 2013 FEIR.

- Impact AIR-2 and AIR-3: Subsequent land use activities associated with implementation of the proposed project (General Plan) would generate an increase in operational and construction related emissions of criteria air pollutants in the Plan area. However, they would not violate any air quality standard or contribute substantially to an existing or projected air quality violation with implementation of General Plan Policies CS-5.1 to CS-5.5, T-1.1 to T-1.3, T-1.6, T-2.1 to T-2.11, T-3.1 to T-3.9, T-4.1 to T-4.9, LU-1.1 to LU-1.4, and LU-4.2 as they relate to operational emissions, and compliance with Bay Area Air Quality Management District (BAAQMD) Basic Control Measures pursuant to General Plan Action HW-1.G, and Action HW-1.I as they relate to construction emissions. This impact is considered less than significant.

- Impact AIR-3: Subsequent land use activities associated with implementation of the proposed project (General Plan) would not result in significant impacts with respect to the placement of sensitive receptors proximate to major sources of air pollution or the siting of new sources of air pollution proximate to sensitive receptors in the City subject to implementation of General Plan Policies LU-2.4 and LU-2.C, and Action HW-1.F. This impact is considered less than significant.

- Impact AIR-4: Subsequent land use activities associated with implementation of the proposed project (General Plan) would not result in significant impact with regard to creating or exposing a substantial number of people to objectionable odors subject to implementation of General Plan Action HW-1.H, as applicable. This impact is considered less than significant.

Implementation of the General Plan would result in potentially significant air quality impacts. General Plan Policies and Actions would render most impacts less than significant, however not all impacts may be reduced to less than significant levels. A statement of overriding consideration was adopted with the certification of the 2013 FEIR.

Project Consistency with the 2013 FEIR

4.3(a) (Conflict with Plan) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR found that build out of the General Plan would result in significant and unavoidable impacts on air quality. The 2013 FEIR determined that while the General Plan would support the primary goals of the 2010 Bay Area Clean Air Plan, buildout of the proposed Plan would not be consistent with the Clean Air Plan because the projected vehicle miles traveled (VMT) increase from buildout of the proposed Plan would be greater than the projected population increase. As it relates to the General Plan, the development proposed by the proposed Project is within the projections analyzed in 2013 FEIR and would not create new impacts, more significant impacts, or a substantial change from the 2013 FEIR.

In the 2017 BAAQMD CEQA Air Quality Guidelines, the BAAQMD established thresholds of significance for construction and operation for emission levels that, if exceeded, may be considered potentially significant impacts. Project-specific analysis of air pollutant emissions, (**Appendix A**), quantifies emission from short-term construction-related activities (e.g., demolition, grading, building, paving, construction equipment, worker trips etc.) and long-term operations (e.g., resident and visitor vehicle use and area sources from consumer products, and landscaping maintenance equipment). Air quality emissions generated by the Project would not exceed BAAQMD significance thresholds during construction or operation, as shown in Tables 1 and 2 below.

Table 1. Construction Emissions

Pollutant	BAAQMD Threshold (pounds/day)	38600 Cedar Boulevard Residential Development Project Daily Average (pounds/day)
ROG (reactive organic gases)	54	3.2
NOX (nitrogen oxides)	54	10.1
PM10 (particulate matter-10 microns)	82 (exhaust)	0.6
PM2.5 (particulate matter-2.5 microns)	54 (exhaust)	0.6
PM10/PM2.5 (fugitive dust)	BMPs*	Required to comply with BMPs

Source: Air Quality and Greenhouse Gas Analysis for the proposed Cedar Townhomes Project at 38600 Cedar Boulevard, Newark, California, October 2022, prepared by LSA.
* Best Management Practices.

Table 2. Operational Emissions

	Annual Average (tons/year)	
Pollutant	**BAAQMD Threshold**	**38600 Cedar Boulevard Residential Development Project**
ROG (reactive organic gases)	10	0.6
NOX (nitrogen oxides)	10	0.3
PM10 (particulate matter-10 microns)	15	0.5
PM2.5 (particulate matter-2.5 microns)	10	0.1

Source: Air Quality and Greenhouse Gas Analysis for the proposed Cedar Townhomes Project at 38600 Cedar Boulevard, Newark, California, October 2022, prepared by LSA.

BAAQMD does not have a quantitative threshold of significance for fugitive dust. However, the 2017 BAAQMD CEQA Guidelines provide recommendations for best management practices to reduce emissions, including fugitive dust. Action HW-1.G identified in the 2013 FEIR as set forth in the General Plan requires the use of BAAQMD-recommended basic construction control measures to limit emissions of construction-related criteria pollutants, including fugitive dust. Best management practices from the latest BAAQMD CEQA Air Quality Guidelines are required to be implemented by the Project as imposed by condition of approval (COA) AQ-1, consistent with Action HW-1.G. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.3(b) (Increase Criteria Pollutants) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR determined that cumulative impacts related to criteria air pollutant increases would be the same as the Plan-specific impacts. The Project is consistent with the projected buildout of the General Plan. At the Project-level, analysis of criteria pollutant emissions from development of the Project, as described above in 4.3(a), indicate that the Project would have emissions that are below the BAAQMD thresholds of significance as shown in Table 1 and 2 above. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.3.(c) (Sensitive Receptors) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR determined impacts to sensitive receptors would be less than significant with the implementation of General Plan Policies LU-2.4 and Actions LU-2.C and Action HW-1.F. Action HW-1.F. In accordance with Policy LU-2.4, related to buffering from transportation facilities applicable to the Project, the Project proposes a landscaped buffer that is a minimum of 20.4 foot deep between the development and I-880. In accordance with Action HW-1.F, a health risk assessment (HRA) was conducted as part of the Air Quality and Greenhouse Gas Analysis prepared for the Project to assess impacts to sensitive receptors that are defined as residential uses, schools, daycare centers, nursing homes, and medical centers. Single-family residences are located approximately 120 feet southwest of the Project site boundary across Cedar Boulevard and multi-family residential uses are located approximately 340 feet southeast of the Project site along Cedar Court. Additionally, single-family residences are located approximately 270 feet northeast of the Project site across I-880. A school (Kings Kids Preschool) is located approximately 700 feet to the northwest of the Project site.

The Project proposes a residential use that is not associated with sources of emissions during operations that would significantly affect sensitive receptors. Construction activities would result in short-term emissions that could potentially impact nearby sensitive receptors. During construction, onsite activities will result in airborne particles from site disturbance and construction equipment emissions (i.e., diesel particulate matter exhaust emissions from vehicles and heavy equipment operations).

The HRA evaluated construction period health risks to offsite receptors and found that the risk associated with project construction at the maximally exposed individual (MEI), which is the nearest sensitive receptor would be 27.63 in one million. This risk exceeds the BAAQMD cancer risk threshold of 10 in one million. Therefore, the HRA recommends construction equipment controls to reduce the risk below the BAAQMD threshold and consequently to a less than significant level. COA AQ-2 is included below, pursuant to Action HW-1.F, to ensure implementation of the recommendation set forth in the HRA.

The HRA also evaluated potential health risks to the Project's residential occupants and found that the MEI inhalation cancer risk associated with I-880 adjacent to the Project site would be 53.95 in one million, which would exceed the BAAQMD threshold of 10 in one million. Condition of approval (COA) AQ-3 incorporates the recommendations identified in the HRA to reduce this potential exposure risk to fall below the BAAQMD threshold, pursuant to Action HW-1.F. With implementation of COA AQ-2 and COA AQ-3, sensitive receptors would not be exposed to substantial pollution concentrations. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.3(d) (Odors) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR determined that impacts due to odors would be less than significant with implementation of General Plan Action HW-1.H, which requires

an evaluation of the potential for proposed projects to emit nuisance odors beyond the property line and that property owners submit odor management plans consistent with BAAQMD regulations.

As a residential development, the Project does not involve operations that may generate substantial odors, such as manufacturing, refineries, landfills, or treatment uses. The 2017 BAAQMD CEQA Guidelines contain procedures for evaluating odors for projects subject to CEQA. While BAAQMD has not established CEQA significance thresholds for odors generated as a result of project construction, the Guidelines specify an operational threshold of five confirmed complaints per year averaged over three years. Further, the City of Newark provides information on the mechanism for filing a complaint.

During construction, odors may be emitted from construction equipment and vehicles, but are temporary in nature and would be minimized through best management practices. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

Conclusion and Environmental Conditions of Approval

The proposed Project is within the scope of development projected under the General Plan, and there would be no additional impacts to air quality beyond those analyzed in the 2013 FEIR. The following environmental conditions of approval would apply to the Project in accordance with Actions HW-1.G and HW-1.F included in the General Plan.

COA AQ-1: Consistent with the Bay Area Air Quality Management District (BAAQMD) Basic Construction Mitigation Measures, the following controls are required to be included as specifications for the proposed project and implemented at the construction site to control for fugitive dust and exhaust as follows:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.

2. All haul trucks transporting soil, sand, or other loose material off site shall be covered.

3. All visible mud or dirt tracked-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.

4. All vehicle speeds on unpaved roads shall be limited to 15 miles per hour.

5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible.

6. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.

7. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California Airborne Toxics Control Measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.

8. All construction equipment shall be maintained and properly tuned in accordance with manufacturers' specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.

9. A publicly-visible sign shall be posted with the telephone number and person to contact at the City of Newark regarding dust complaints. This person shall respond and take

corrective action within 48 hours. The BAAQMD's phone number shall also be visible to ensure compliance with applicable regulations.

COA AQ-2: During construction of the proposed project, the project contractor shall ensure all off-road diesel-powered construction equipment of 50 horsepower or more used for the project construction at a minimum meets the California Air Resources Board Tier 3 emissions standards with level 3 diesel particulate filters or equivalent.

COA AQ-3: The following measures shall be required to reduce toxic air contaminants (TACs) and particulate matter indoors to a level sufficient to achieve compliance with BAAQMD health risk thresholds:

1. The project applicant shall provide an HVAC system with a control efficiency sufficient to result in a reduction of a minimum 85 percent of particulates of 10 microns or less, such as Minimum Efficiency Reporting Value (MERV)-9 filters or greater, for indoor air filtration systems. The ventilation system shall be certified to achieve the stated performance effectiveness from indoor areas.

2. The project applicant shall locate all air intakes as far away from Interstate 880 (I-880) as feasible.

3. The project applicant shall disclose to potential occupants of the project that the proximity of the project site to the freeway could result in increased long-term health risks. The disclosure shall indicate the specifications for the installed air filtration system.

4.4. BIOLOGICAL RESOURCES

Would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?	☐	☐	☐	☒
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☐	☒

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☐	☒
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013.

General Plan EIR Findings

Biological resources are protected by federal and state statute including the Federal Endangered Species Act (FESA), the California Endangered Species Act (CESA), the Clean Water Act (CWA), and the Migratory Bird Treaty Act (MBTA) which affords protection to migratory bird species including birds of prey. These regulations provide legal protection for identified plant and animal species of concern and their habitat.

The 2013 FEIR evaluated potential impacts to biological resources in Chapter 4.3 and determined the following:

- Impact BIO-1: Implementation of the proposed project (General Plan) would not have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service, This impact is considered less than significant subject to the implementation of General Plan Policies CS-1.1 to 1.3, CS-2.1 to CS-2.7, and Actions CS-1.A and CS-2.C.

- Impact BIO-2: Implementation of the proposed project (General Plan) would not have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service in the Plan Area. This impact is considered less than significant, subject to the implementation of mitigation measures MM BIO-2.1 to 2.5 from the Area 3 and 4 Specific Plan EIR, as applicable, and implementation of General Plan Goal CS-2, Policies CS-1.1, CS-1, CS-4, CS-3.4 to CS-3.6, and Actions CS1.A, CS2.B, CS2.C, CS3.H, CS T-2B.

- Impact BIO-3: Implementation of the proposed project (General Plan) would not have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means, This impact will be less than significant. subject to the implementation of General Plan Goal CS-1, Policies CS-2.3 to CS-2.5, CS-2.8, and Actions CS2.B, CS2.C, CS.E, CS T-2.B.

- Impact BIO-4: Implementation of the proposed project (General Plan) would not interfere substantially with the movement of any native resident or migratory fish or wildlife species, or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites. This impact is considered less than significant subject to the implementation of General Plan Policies CS-1.2, CS-1.3, CS-2.1, CS-2.3, CS-2.5, and Actions CS1.A, Actions CS2.B, Actions CS2.E.

- Impact BIO-5: Implementation of the proposed project (General Plan Update) would not conflict with the City of Newark tree preservation ordinance, subject to the implementation of General Plan Goal CS-4, Policies CS-4.1 and CS-4.3, and Actions CS4.A, CS4.D. This is considered a less than significant impact.

- Impact BIO-6: Implementation of the proposed project (General Plan) would result in less than significant impact to the Basin Plan and Habitat Goals, local and regional habitat conservation planning

initiatives relevant to Newark. This impact is considered less than significant, subject to implementation of General Plan Policies CS-2.4, CS-2.5, CS-2.8, and Actions CS-2.B, CS2-C, CS-2.E.

- Impact BIO-7: Implementation of the proposed project (General Plan) would result in less-than significant cumulative impacts related to biological resources. This impact is considered less than significant with adherence to applicable federal, State, and local regulations and implementation of mitigation measures identified in the previous Area 3 and 4 Specific Plan and the Dumbarton TOD Specific Plan EIRs previously certified by the City of Newark

As shown on Figure 4.3-1, 4.3-2, and 4.3-3 of the 2013 FEIR, the Project site and vicinity do not contain special-status animal and plant species, sensitive natural communities and habitat and/or wetlands.

Project Consistency with the 2013 FEIR

4.4(a-f) (Special-Status Species and Sensitive Communities, Adverse Effects to Jurisdictional Waters, Adverse Effect on Wildlife Movement, Conflict with Local Ordinances, Conflicts with Habitat Conservation Plans) No Change Relative to the 2013 FEIR: The Project site and vicinity are highly developed with existing buildings and paving. As shown in Figure 4.3-1 to Figure 4.3.3 in the FEIR, this area does not contain special-status animal and plant species, sensitive natural communities and habitat and/or wetlands. As such, the Project would have no impacts to biological resources and would, therefore, not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

Conclusion and Environmental Conditions of Approval

The Project would not result in any new or more severe impacts to biological resources relative to what was identified the 2013 FEIR. The Project would result in the removal of existing coniferous trees along the Project site's frontage on the Cedar Boulevard side and existing landscape median island on Cedar Boulevard. The following environmental conditions reflect best practices:

COA BIO-1: To avoid and minimize potential impacts to nesting birds including passerines and raptors, the following measures shall be implemented:

1. Grading or removal of potentially occupied habitat should be conducted outside the nesting season, which occurs between approximately February 1 to August 31.

2. If grading between August 31 and February 1 is infeasible and groundbreaking must occur within the nesting season, a pre-construction nesting bird survey (migratory species, passerines, and raptors) of the potentially occupied habitat (trees, shrubs, grassland) shall be performed by a qualified biologist within 7 days of groundbreaking. If no nesting birds are observed no further action is required and grading shall occur within one week of the survey to prevent "take" of individual birds that could begin nesting after the survey.

3. If active bird nests (either passerine and/or raptor) are observed during the pre-construction survey, a disturbance-free buffer zone shall be established around the occupied habitat until the young have fledged, as determined by a qualified biologist.

4. The radius of the required buffer zone can vary depending on the species, (i.e., 75-100 feet for passerines and 200-500 feet for raptors), with the dimensions of any required buffer zones to be determined by a qualified biologist in consultation with CDFW.

5. To delineate the buffer zone around the occupied habitat, construction fencing shall be placed at the specified radius from the nest within which no machinery or workers shall intrude.

6. Biological monitoring of active nests shall be conducted by a qualified biologist to ensure that nests are not disturbed and that buffers are appropriate, adjusted by a qualified biologist as needed to avoid disturbance.

7. No construction or earth-moving activity shall occur within any established nest protection buffer prior to September 1 unless it is determined by a qualified ornithologist/biologist that the young have fledged (that is, left the nest) and have attained sufficient flight skills to avoid project construction zones, or that the nesting cycle is otherwise completed.

COA BIO-2: Prior to any tree removal or alteration, the applicant shall obtain a tree removal permit from the City of Newark Public Works Department and implement tree planting requirements in accordance with development review.

4.5. CULTURAL RESOURCES

Would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
a) Cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?	☐	☐	☐	☒
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?	☐	☐	☒	☐
c) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☐	☒	☐

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013; Historic Resource Evaluation, prepared by Diana J. Painter, Painter Preservation, November 21, 2022.

General Plan EIR Findings

The 2013 FEIR evaluated potential impacts to cultural resources in Chapter 4.4 and determined the following:

- Impact CULT-1: Implementation of the proposed project (General Plan) would not cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5. This impact is considered less than significant subject to implementation of Mitigation Measure 4.4-2 from the 2010 Newark Housing Element EIR that pertains to the Old Town portion of Newark, Mitigation Measure 4.4-1b from the Dumbarton Transit-Oriented Development (TOD) Specific Plan EIR that pertains to the Dumbarton TOD Focus Area (now known as Bayside Newark) and General Plan Goal LU-5, Policies LU-5.1 to LU-5.4, and Actions LU5.A to LU5.E. for the Plan area overall.

- Impact CULT-2: Construction activities associated with the implementation of the proposed project (General Plan) could cause a significant impact to archaeological resources in the Southwest Newark Residential and Recreational Focus Area by potentially damaging or disturbing as yet undiscovered archaeological deposits through the placement of fill and soil compression. Regulatory compliance and the implementation of General Plan Policy LU-5.5 would reduce but not eliminate the potential for damage or disturbance and no additional feasible mitigation exists to further reduce this impact in the Newark Residential and Recreational Focus Area. Therefore, impacts to archaeological resources in the Southwest Newark Residential and Recreational Focus Area would be significant and unavoidable. A statement of overriding consideration was adopted with certification of the 2013 FEIR.

  In the rest of the Plan area this impact would be rendered less than significant with implementation of Mitigation Measure 4.4-1 from the 2010 Housing Element EIR, and Mitigation Measure CUL-2.1 to CULT-2.4 from the Area 3 and 4 Specific Plan EIR, as applicable, and the implementation of General Plan Policy LU-5.5.

- Impact CULT-3 is discussed under Geology and Soils.

- Impact CULT-4: Construction activities associated with the implementation of the proposed project (General Plan) could cause a significant impact to Native American human remains in the Southwest Newark Residential and Recreational Focus Area by potentially damaging or disturbing as yet undiscovered Native American human remains through the placement of fill and soil compression. Compliance with the provisions of SB18, California Health and Safety Code Section 7052 and 7050.5, and California Public Resources Code Section 5097 and 15064.5 together with the implementation of Mitigation Measure 4.4-1 from the 2010 Housing Element EIR, and Mitigation Measures CUL-2.1 through CUL-2.4 from the Area 3 and 4 Specific Plan EIR would reduce this impact. However, damage or disturbance of human remains through the placement of fill and soil compression could still result in a significant impact during construction activities associated with buildout of the General Plan and no additional feasible mitigation exists to further reduce this impact Therefore, impacts to human remains, including those interred outside of formal cemeteries in the Southwest Newark Residential and Recreational Focus Area would be significant and unavoidable. A statement of overriding consideration was adopted with certification of the 2013 FEIR.

  The potential for encountering as yet undiscovered archeological resources is low in the rest of the Plan Area.

- Impact CULT-5: Implementation of the proposed project (General Plan), in combination with past, present, and reasonably foreseeable projects, would result in less than significant cumulative impacts with respect to cultural resources subject to compliance with federal and State laws protecting cultural resources.

Implementation of the General Plan would result in significant and unavoidable impacts to archaeological resources and human remains in the Southwest Newark Residential and Recreational Focus Area. In other locations in the Plan area, mitigation measures, General Plan Policy LU-5.5 and Actions as identified above would render impacts to cultural resources less than significant. A statement of overriding consideration was adopted with the certification of the 2013 FEIR because not all impacts in the Southwest Newark Residential and Recreational Focus Area may be reduced to less than significant levels.

Project Consistency with the 2013 FEIR

4.5(a) (Historic Resources) No Change Relative to the 2013 FEIR: A historic resource evaluation (HRE) (**Appendix B**) was undertaken in accordance with Action LU-5.A of the 2013 FEIR to establish the historic significance of the buildings at 38600 Cedar Boulevard and ensure that subsequent development projects result in less than significant impacts to historical resources.

The Project site is currently developed with three buildings: A warehouse building, constructed in 1979, located on the northwest side of the Project site, and an L-shaped garage building occupied by a garage and offices and a ranch style office building, both constructed in 1962, located in the southeastern portion of the Project site. The latter two buildings, being over 50 years in age, are subject to a historic resource evaluation. If found to be historic resources under the National Register Criteria for Evaluation, the California Eligibility Criteria, or the City of Newark criteria for designation, the demolition of the two buildings could be found to have an impact under CEQA.

As detailed in the Project's HRE, although the two subject buildings are over 50 years of age, they are not historically significant under any of the aforementioned criteria. They are not found to be a part of important events or patterns of local, state or national history. They are also not significant for an association with people important to local, state or national history. They are neither architecturally significant nor important for their information value. Based on the determination that neither of the two structures evaluated are eligible for listing, the proposed demolition of existing buildings and structures onsite will not result in impacts to an identified or eligible historic district or to an individual historical resource. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.5(b) (Archaeological Resources) No Substantial Change Relative to the 2013 FEIR: As applicable to the Project site, the 2013 FEIR concluded that compliance with Mitigation Measure 4.4-1 from the 2010 Housing Element EIR and General Plan Policy LU-5.5 would ensure that subsequent development projects result in less than significant impacts to archaeological resources.

Mitigation Measure 4.4-1 from the 2010 Housing Element EIR requires that in the event an archeological Native American artifact is identified during residential development, work will cease in the immediate vicinity of the artifact until a resource protection plan conforming to CEQA Guidelines is prepared by a qualified paleontologist and/ or archeologist and approved by the City of Newark. General Plan Policy LU-5.5 requires coordination with local tribal representatives and the Native American Heritage Commission to ensure the protection of Newark's Native American resources and to follow appropriate mitigation, preservation, and recovery procedures in the event that important resources are identified during development.

In accordance with Mitigation Measure 4.4-1 from the 2010 Housing Element EIR, COA CUL-1 is specified below. With implementation of COA CUL-1, the Project will result in less than significant impacts from a substantial adverse change in the significance of an archaeological resource if encountered during construction. Additionally, the City implemented General Plan Policy LU-5.5 by conducting notification on February 8, 2023, to local tribes within the statutory timeframe provided by Public Resources Code §21080.3.1. One response from the Confederated Villages of Lisjan Nation was received on February 9, 2023, with a request for additional information regarding the Project site that was provided to the Tribal representative on February 10, 2023. The City of Newark did not receive any further communication from the above referenced tribe and has not received responses requesting consultation from any other tribes contacted. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR with respect to archaeological resources.

4.5(c) (Discovery of Human Remains) No Substantial Change Relative to the 2013 FEIR: In the event that during ground disturbing activities, human remains are discovered, the Project shall comply with Mitigation Measure 4.4-1 from the 2010 Housing Element EIR as imposed by COA CUL-1, which requires the immediate cessation of ground disturbing activities near or in any area potentially overlying adjacent human remains and contacting the City and County Coroner upon the discovery of any human remains and provisions of state law carried out, which include immediately contacting the Native American Heritage Commission, if it is determined by the City, and County Coroner that the discovered remains are of Native American descent. Compliance with COA CUL-2 as well as California Health and Safety Code Section 7050.5 and performance of actions therein will ensure that in the event of accidental discovery of historically significant remains the Project will result in less than significant impacts. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

Conclusion and Environmental Condition of Approval

The Project would not result in any new or more severe impacts to archaeological resources relative to what was identified the 2010 FEIR. Implementation of COA CUL-1 below, specified in accordance with Mitigation Measure 4.4-1 from the 2010 Housing Element EIR will ensure that the Project does not result in impacts to buried archaeological resources onsite, if present.

COA CUL-1: During project construction, if historic, archaeological or Native American materials or artifacts are identified, work within 50 foot radius of such find shall cease and the City shall retain the services of a qualified archeologist and/or paleontologist to assess the significance of the find. If such a find is determined to be significant by the archeologist and/or paleontologist, a resource protection plan conforming to CEQA §15064.5 shall be prepared by the archeologist and/or paleontologist and approved by the Community Development Director. The plan may include, but would not be limited to, removal of resources and similar actions. Project work may be resumed in compliance with such a plan. If human remains are encountered, all ground disturbing activities near or in any area potentially overlying adjacent human remains shall cease, the County Coroner shall be contacted immediately, and the provisions of State law carried out.

4.6. ENERGY

Would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☐	☒
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☐	☒

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013.

General Plan EIR Findings

The 2013 FEIR addresses energy in Chapter 4.2, Air Quality and Chapter 4.6, Greenhouse Gas Emissions, with reference to the control measures from the 2010 Bay Area Clean Air Plan related to energy use, water use and waste generation, and identifies various General Plan policies and actions that would support these measures. These policies and actions, include but are not limited to, green building (Policies CS-6.2, CS-6.3, and CS-6.4, and Actions CS-6.B, CS-6.C and CS-6.D), building codes (Action CS-6.A), and energy efficiency and use (Policies CS-7.1, CS-7.2, CS-7.3, CS-7.4, CS-7.5, and Action CS-7.A, CS-7.B, Action CS-7.C, CS-7.D, and CS-7.F) and implementation of the City's Climate Action Plan programs (Action CS-7.E).

Project Consistency with the 2013 FEIR

4.6(a-b) (Energy Consumption) No Change Relative to the 2013 FEIR: The Project consists of the construction and operation of a multi-family residential development that would be subject to the applicable General Plan policies regarding green building and energy use and current building code standards requiring energy efficiency in new multi-family construction. The Project would be subject to the latest energy efficiency standards as well as other green building standards pursuant to Title 24, with conformance ensured through the City's building permit review process.

As proposed, the Project would include high-efficiency appliances, high-performance windows, Cool Roofs, low flow fixtures, and solar ready homes. Additionally, the Project would be all electric and preclude the use of natural gas infrastructure. The Project also proposes drought tolerant landscaping thereby contributing to a reduction in energy expended to treat and convey water. Construction of the Project would be subject to the BAAQMD best management practices that require minimizing idling time and maintaining construction equipment to manufacturer's specifications that would reduce inefficient consumption of fuels. As a multi-family residential development subject to the latest building code and construction standards, energy consumption of the Project would neither be wasteful or inefficient nor would it obstruct a state or local plan for renewable energy or energy efficiency. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

Conclusion

The Project would not result in any new or more severe impacts to energy relative to what was identified in the 2013 FEIR. The Project would be required to comply with the latest energy efficiency standards as a new construction. Additionally, it is subject to uniformly applied development standards including review of construction plans by building officials to verify compliance with the most recent building codes. No environmental conditions of approval related to energy are required.

4.7. GEOLOGY AND SOILS

Would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:	☐	☐	☒	☐
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☒	☐
ii) Strong seismic ground shaking?	☐	☐	☒	☐
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☒	☐
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☐	☒	☐

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013; Geotechnical Exploration, prepared by ENGEO, January 31, 2023; Geotechnical Peer Review, prepared by Cotton, Shires and Associates, Inc., April 10, 2023; Responses to Geotechnical Review Comments, prepared by ENGEO, June 5, 2023, and Supplemental Geotechnical Peer Review, prepared by Cotton, Shires and Associates, Inc, June 14, 2023.

General Plan EIR Findings

The 2013 FEIR evaluated the potential impacts related to geology and soils in Chapter 4.5 and determined the following.

- Impact GEO-1: Implementation of the proposed project (General Plan), would not expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving

surface rupture along a known active fault; strong seismic ground shaking; seismic-related ground failure, including liquefaction; and landslides. The impact is considered less than significant, subject to, compliance with the City of Newark Municipal Code. Such compliance would ensure that construction, grading, and related activities meet California Building Code standards, implement erosion control methods, and provide, where required, a professionally prepared soils engineering report, engineering geology report, a liquefaction study, and a geotechnical report in identifying seismic hazards for any projects located in a seismic hazard zone. Additionally, implementation of General Plan Goal EH-2, Policies EH-1.1, EH-1.2, EH2.1 to EH-2.4, and Actions EH-1.A, EH-1.B, and EH-2.A to EH-2.F would further address impacts related to ground shaking and liquefaction.

- Impact GEO-2: Implementation of the proposed project (General Plan) would not result in substantial soil erosion or the loss of topsoil. This impact is considered less than significant subject to implementation of the General Plan Goal CS-1, Policy CS-1.4, and Action CS-1.B and Mitigation Measure 4.5-1 from the Housing Element EIR and Mitigation Measure 4.5-1 from the Dumbarton TOD EIR that pertain to development of complexes containing four or more dwellings on a housing site, or for major remodel projects on such complexes, and development in the Dumbarton TOD area, respectively.

- Impact GEO-3: Implementation of the proposed project (General Plan) would not result in a significant impact related to development on unstable geologic units and soils or result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse. This impact is considered less than significant with the implementation of the City of Newark Code as described above and General Plan Goal EH-1, Policies EH-1.1 and EH-1.2, and Actions EH-1.A, EH-2.A and EH-2.B.

- Impact GEO-4: Implementation of the proposed (General Plan) would not create substantial risks to life or property as a result of its location on expansive soil, as defined in Table 18-1-b of the Uniform Building Code (1994). This impact is considered less than significant, subject to the implementation of General Plan Goal EH-1, Policies EH-1.1, EH-1.2, and EH-2.4, and Actions EH-1.A, EH-2.A and EH-2.B, Mitigation Measure 4.5-1 from the Housing Element EIR, and Mitigation Measure 4.5-1 from the Dumbarton TOD EIR that pertain to development of complexes containing four or more dwellings on a housing site, or for major remodel projects on such complexes, and development in the Dumbarton TOD area, respectively. Additionally, implementation of the City of Newark Code, as described above, would further reduce this impact to a less than significant level.

- Impact GEO-5: Implementation of the proposed project (General Plan) would not result in impacts associated with the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater. As sewers are available for disposal of wastewater there will be no impact.

- Impact GEO-6: Implementation of the proposed project (General Plan) in combination with existing, planned, proposed, and reasonably foreseeable development, would not contribute to cumulative geologic, seismic, and soil impacts, as the impacts are often site-specific and not additive in character. Therefore, there would be no cumulatively considerable impacts related to Geology and Soils as a result of the proposed project (General Plan). Additionally, there would be further protection with compliance with the City of Newark Code, and implementation of Mitigation Measure 4.5-1 from the Housing Element EIR and Mitigation Measure 4.5-1 from the Dumbarton TOD EIR , as described above as well as the following General Plan goals, policies, and actions: Goals EH-1, EH-2, CS-1, Policies EH-1.1, EH-1.2, EH-2.1 to EH-2.4, and Actions EH-1.A, EH-1.B, EH-2.A, EH-2.B, EH-2.C, EH-2.D, EH-2.E, EH-2.F, and CS-1.B.

- Impact CULT-3: Implementation of the proposed project (General Plan) would not directly or indirectly destroy a unique paleontological resource or site, or unique geologic feature. This impact would be less than significant because the potential for fossil remains of significance are unlikely in the Plan Area due to the relatively recent age of Holocene Bay mud underlying the city. Additionally, since no previous fossil finds have been made in the vicinity, and there are no known paleontological resources

in Newark according to the University Of California Museum Of Paleontology Specimen Search database, paleontological potential of this area is considered low

Project Consistency with the 2013 FEIR

4.7(a) (Seismic Hazards) No Substantial Change Relative to the 2013 FEIR:

A Geotechnical Study (**Appendix C-1**) was performed in accordance with Action EH-2.A of the General Plan and peer reviewed to assess its adequacy. As indicated in Appendix C-1, the Project site is not located within a currently designated Alquist-Priolo Earthquake Fault Zone and no known surface expression of active faults is believed to exist within the site. Due to the site's location in the seismically active Bay Area region, as identified and considered in the 2013 FEIR, the site and the city as a whole would experience ground shaking. The Project is subject to construction standards established for seismic safety within the most recent California Building Code, which would minimize potential impacts resulting from ground shaking.

According to the Project's Geotechnical Study (**Appendix C-1**), the Project is located within a liquefaction hazard zone as mapped by the California Geological Survey, but not in an earthquake-induced landslide hazard zone. The Project's geotechnical exploration encountered up to 8 feet of potentially undocumented fill overlying alluvial clays, silts, sands, and gravels on the previously developed Project site with groundwater depths of 5.1 feet to 16.0 feet below ground surface (bgs) in borings and CPT probes with Historic groundwater depths mapped at about 10 feet bgs. The geotechnical exploration concluded the primary geotechnical hazards potentially impacting the proposed development include, the existing fill, high groundwater, slope stability along the northwestern property line, liquefaction and resulting surficial settlement and identified likely potential for liquefaction resulting in relatively moderate post seismic shaking settlement at the ground surface.

The Supplemental Geotechnical Peer Review (**Appendix C-4**) determined that the Project's Geotechnical Study and the Project's Geotechnical Consultant's response (**Appendix C-3**) to Geotechnical Study Peer Review (**Appendix C-2**) provide various conceptual mitigation alternatives that are typically recommended to mitigate surficial manifestation of liquefaction, lateral spreading, and liquefaction induced slope instability, but determined that the Project's Geotechnical Study should provide specific recommendations to mitigate the following: the potential for surficial manifestation of liquefaction (sand boils, ejecta, loss of bearing, etc.) where they might occur (eastern and southern sides of the site), the potential for lateral spreading, and the potential liquefaction induced slope instability. The City's Public Works Department has imposed a condition of approval on the Project to require specific recommendations to mitigate the aforementioned hazards, prior to or concurrent with the final map submittal that is reproduced below as COA GEO-1. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.7(b) (Erosion) No Substantial Change Relative to the 2013 FEIR:

The Project site is previously disturbed from past uses and would be redeveloped with new grading, paving, and landscaping. The Project creates more than 10,000 square feet of impervious surfaces and therefore, would be subject to implementation of stormwater management facilities to treat site runoff per Alameda County C.3 requirements. Best management practices for soil erosion and sediment control would be required during construction. Implementation of these requirements would serve to minimize impacts of pollutants and sediment in runoff to stormwater systems. Ground disturbing activities on the Project site will be required to be carried out in accordance with the City of Newark "Grading and Excavation" regulations (NMC Chapter 15.50), administered by the City's Public Works Department. The project's grading and drainage plans shall be required to demonstrate compliance with NMC Chapter 15.50. Compliance with this chapter will ensure that the soil erosion or loss of topsoil impacts as a result of the project would be less than significant. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.7(c) (Geologic Stability) No Substantial Change Relative to the 2013 FEIR:

As discussed in Sections 4.7(a) above, COA GEO-1 will ensure that the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.7(d) (Expansive Soils) No Substantial Change Relative to the 2013 FEIR:

The Project's geotechnical exploration (**Appendix C-1**) observed expansive clay near the surface of the site that exhibits moderate to high shrink/swell potential with variations in moisture content. These changes in soil volume with changes in moisture content can cause heaving and cracking of slabs-on-grade, pavements, and structures founded on shallow foundations. **Appendix C-1** provides conceptual mitigation alternatives that are typically recommended to mitigate potential impacts. Therefore, COA GEO-2 below specifies that the Project's Geotechnical Consultant/applicant shall provide specific recommendations to mitigate the impacts of expansive soils on the Project site.

4.8(e) (Septic Tanks) No Change Relative to the 2013 FEIR: The Project would not include the use of septic tanks. Instead 8" sanitary sewer lines would collect waste from the residences and connect to the existing 27" sewer line that runs in a general north south direction in an easement within the driveway proposed as part of the Project. Therefore, the project would not result in any changes relative to the 2013 FEIR regarding use of septic tanks.

4.9.(f) (Paleontological Resources) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR determined that impacts on unique geologic or paleontological resources would be less than significant. Given that the Project site is previously developed and disturbed in combination with the lack of paleontological resource discoveries in the city and the age of recent subsurface soils, it is unlikely that the project construction activities would directly or indirectly destroy a unique paleontological resource or site or unique geologic feature. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

Conclusion and Environmental Conditions of Approval

The proposed Project is within the scope of development projected under the General Plan and would not result in any new or more severe impacts to geology and soils relative to what was identified the 2013 FEIR with implementation of the following environmental conditions of approval.

COA GEO-1 Prior to or concurrently with the first submittal of the final map and improvement plans, the applicant shall provide specific recommendations to mitigate identified seismic hazards discussed in the City's Geotechnical Consultant's letter dated June 14, 2023. The applicant's Geotechnical Consultant shall submit a letter-report addressing the items identified in the June 14, 2023, letter to the City for review by the City's Geotechnical Consultant. The applicant shall pay for all costs associated with the geotechnical peer review per the City's Master Fee Schedule.

COA GEO-2 Prior to or concurrently with the first submittal of the final map and improvement plans, the applicant shall provide specific recommendations to mitigate impacts of expansive soils on the site. The applicant's Geotechnical Consultant shall submit a letter-report addressing expansive soils on the site, to the City for review by the City's Geotechnical Consultant. The applicant shall pay for all costs associated with the geotechnical peer review per the City's Master Fee Schedule.

4.8. GREENHOUSE GAS EMISSIONS

Would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☐	☒
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013; Air Quality and Greenhouse Gas Analysis, prepared by LSA, November 7, 2022.

General Plan EIR Findings

The 2013 FEIR evaluated the potential impacts related to greenhouse gas emissions in Chapter 4.6 and determined the following:

- Impact GHG-1: Implementation of the proposed project (General Plan) would result in greenhouse gas emissions (GHG) in excess of the long-term 2050 GHG reduction target interpolated from Executive Order S-03-05 (2025) with significant GHG emissions within the City of Newark. These emissions would exceed 4.0 $MTCO_{2e}$ per service population for the City for long term growth anticipated to the year 2035. These GHG emissions could not be avoided without major advancement in technological state of the art that existed in 2013 despite Uniformly Applicable Development Standards for new developments. Therefore, the impact with respect to generation of GHG emissions would be significant and unavoidable. A statement of overriding consideration was adopted with certification of the 2013 FEIR.

- Impact GHG-2: The proposed project (General Plan) would not conflict with an applicable plan, policy, or regulation for the purpose of reducing the emissions of GHGs, namely, California Air Resources Board (CARB) scoping plan, Metropolitan Transportation Commission's (MTC's) Plan Bay Area and the Newark Climate Action Plan. This impact is considered less than significant.

Project Consistency with the 2013 FEIR

4.8(a) (Greenhouse Gas Generation) No Change Relative to the 2013 FEIR: The 2013 FEIR determined that GHG generation for buildout of the General Plan would be significant and unavoidable without advancement in technology. As indicated in the Air Quality and Greenhouse Gas Analysis (**Appendix A**) prepared for the Project, based on April 2022 BAAQMD Justification Report: "*CEQA Thresholds for Evaluating the Significance of Climate Impacts From Land Use Projects and Plans",* a project would have a less than significant impact related to GHG emissions if it would include the project design elements related to natural gas, energy, Vehicle Miles Traveled (VMT), and electric vehicles or if it would be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b). The City's CAP does not meet these requirements. However, the Project includes design elements that would render its GHG emission impacts less than significant.

As described in the Project's Air Quality and GHG Analysis (**Appendix A**), the Project would be all electric and would not depend on natural gas, electricity demand associated with the proposed project would be less than 0.1 percent of Alameda County's total electricity demand, it would include solar and be constructed to Title 24 standards and would, therefore, not result in wasteful, inefficient, or unnecessary energy usage. The Project would have a less than significant VMT impact and would be required to include EV charging stations as specified in COA GHG-1.

4.8(b) (Conflict with Plans) No Change Relative to the 2013 FEIR: The 2013 FEIR determined that the General Plan would not conflict with California Air Resources Board (CARB) scoping plan, Metropolitan Transportation Commission's (MTC's) Plan Bay Area or the Newark Climate Action Plan. These plans include measures and strategies for greenhouse gas emissions reduction to meet state targets. As described in the Project's Air Quality and GHG Analysis (**Appendix A**), the Project would comply with existing state regulations

including the CARB scoping plan adopted to achieve the overall GHG emissions reduction goals. The Project proposes development that is consistent with the development envisioned in the General Plan and is consistent with the General Plan policies, such as those related to green building and energy use, that promote a reduction in greenhouse gas emission through the application of energy efficiency standards and green building requirements under the California Building Code. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

Conclusion and Environmental Conditions of Approval

The proposed Project is within the scope of development projected under the General Plan and analyzed in the 2013 FEIR. Impacts from greenhouse gas emissions were determined to be significant and unavoidable in the 2013 FEIR and a statement of overriding considerations was adopted. The Project would include design elements that, in combination with the COA GHG-1 below, would reduce GHG emissions impacts to a less than significant impact.

COA GHG-1 The project shall include and show on the plans a minimum of 10 percent of the parking spaces as electric vehicle (EV) charging stations consistent with current or the most recent California Green Buildings Standards Code (CALGreen) Tier 2 standards.

4.9. HAZARDS AND HAZARDOUS MATERIALS

Would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☒	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☒	☐
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☒	☐
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	☐	☐	☐	☒

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013; Phase I Environmental Site Assessment Report, prepared by ENGEO Inc., May 13, 2022; Phase II Environmental Site Assessment Report, prepared by ENGEO Inc., October 21, 2022, and State Responsibility Fire Hazard Severity Zone Maps, Office of the State Fire Marshall, accessed June 2023

General Plan EIR Findings

The 2013 FEIR evaluated potential Hazards and Human Materials impacts in Chapter 4.7 and determined the following:

- Impact HAZ-1: The implementation of the proposed project (General Plan) would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. This impact is considered less than significant, subject to compliance with applicable federal, state, and local regulations. Further, implementation of the following General Plan goals, policies and actions would further minimize the risks from routine transport, use, or disposal of hazardous materials: Goal EH-4, Policies EH-4.1, EH-4.4 to EH-4.7, Actions EH-4.A, EH-4.C, EH-4.E, EH-4.G, and EH-4.I.

- Impact HAZ-2: Implementation of the proposed project (General Plan) would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. This impact is considered less than significant, subject to compliance with applicable federal, State, and local regulations and conditions of approval, including Mitigation Measures HAZ-1.1 through HAZ-5.1 (Newark Areas 3 and 4 Specific Plan), 4.6-1 and 4.6-2a (2010 Housing Element), and 4.7-1a through 4.7-1e (Dumbarton TOD Specific Plan). Implementation of the following General Plan goals, policies and actions would further minimize the risks to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment: Goal EH-4, Policies EH-4.1, EH-4.4, and Actions EH-4.A, EH-4.C, EH-4.E, EH-4H, EH-4.J and EH-4.K.

- Impact HAZ-3: Implementation of the proposed project (General Plan) would not result in significant impacts associated with hazardous emissions or handling of hazardous or acutely hazardous materials, substances, or waste within ¼-mile of an existing or proposed school. This impact is considered less than significant, subject to implementation of applicable regulations and conditions of approval. Mitigation Measures HAZ-2.1 (Newark Areas 3 and 4 Specific Plan), 4.6-1 and 4.6-2a (2010 Housing Element), and 4.7-1a through 4.7-1e (Dumbarton TOD Specific Plan) would apply to land uses that could have the potential to result in an increased risk of release of hazardous materials. Further, implementation of General Plan goals, policies, and actions listed under Impacts HAZ-1, HAZ-2, and HAZ-4, would ensure that hazardous emissions or handling of hazardous materials, substances, or waste within ¼-mile of an existing school is minimized to the maximum extent practicable. This impact is considered less than significant.

- Impact HAZ-4: Implementation of the proposed project (General Plan) would not create a significant hazard to the public or the environment as a result of development on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. This impact is considered less than significant, subject to compliance with applicable regulation and conditions of approval, including Mitigation Measures 4.6-1 and 4.6-2a (2010 Housing Element Update), HAZ-1.1 though HAZ-5.1 (Newark Areas 3 and 4 Specific Plan), and 4.7-1a though 4.7-1e (Dumbarton TOD Specific Plan), together with implementation of General Plan goals, policies, and actions under Impacts HAZ-1 and HAZ-2, and as follows: Goal HW-5, Policies HW-5.1 to HW-5.3, and Action HW-5.A. This impact is considered less than significant.

- Impact HAZ-5: Implementation of the proposed project (General Plan) would not result in a safety hazard for people residing or working in the Plan Area due to development within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport because there are no public use airports public use airports within the Plan area with the nearest airport greater than two miles away from the City of Newark. Therefore, there would be no impact to the safety for people residing in or working in the area because of proximity to airports.

- Impact HAZ-6: Implementation of the proposed project (General Plan) would not result in a safety hazard for people residing or working in the Plan Area due to development in the vicinity of a private airstrip because there are no private airstrips within or in the near vicinity of the Plan Area and there would be no impact as a result.

- Impact HAZ-7: Implementation of the proposed project (General Plan) would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. This impact is considered less than significant, subject to compliance with the Cal EMA (Strategic Plan 2010-2015), the City of Newark Emergency Operations Plan and the City of Newark Chemical Emergency Preparedness Plan along with the following goals, policies and actions of the General Plan: Goal EH-5, Policies EH-5.1 to EH-5.8, and Actions EH-5.A to EH-5.H.

- Impact HAZ-8: Implementation of the proposed project (General Plan) would not expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands because the Plan Area is surrounded on all sides by land within the limits of the City of Fremont and is not designated as having high, very high, or extreme wildland fire threat to people, as determined by CAL FIRE's Wildlife Urban Interface Fire Threat data. Future development in the Plan Area would be constructed pursuant to the California Building Code, California Fire Code, and the City of Newark Municipal Code and the General Plan Goal EH-1, and Policies EH-1.1 and EH-1.2 would further ensure minimization of risks from wildland fires. This impact is considered less than significant.

- Impact HAZ-9: Implementation of the proposed project (General Plan) in combination with past, present, and reasonably foreseeable projects, would not contribute to cumulative increase in risk to hazards or hazardous materials. This impact is considered less than significant, subject to compliance with the applicable federal, state and local regulations, conditions of approval and General Plan goals, policies and actions identified above under Impacts HAZ-1 to HAZ-8. T

Project Consistency with the 2013 FEIR

4.9(a) (Routine Transport) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR concluded that compliance with applicable federal, state, and local regulations would reduce the risk to the public or the environment because of the routine transport, use, or disposal of hazardous materials to a less than significant level.

As described in Chapter 2 of this document, the Project is proposed on a site that contains hazardous materials and hazardous materials contamination that would require disposal and remediation before it can be developed for residential purposes. Also, potentially hazardous building materials (e.g. asbestos containing materials, lead-based paint, etc.) could be encountered during demolition of existing structures. Additionally, subsequent Project construction activities would result in the temporary presence of potentially hazardous materials including, but not limited to, fuels, lubricants, paints, solvents, insulation, electrical wiring, and other construction related materials onsite. However, transportation, use, handling, storage, and disposal of the hazardous materials present or that could potentially be present on the site would be required to comply with all applicable federal, state, and local safety regulations. Subsequent residential use of the Project site would not involve ongoing use or generation of hazardous materials on the site. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.9(b) (Upset and Accident Involving Release) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR concluded that compliance with applicable federal, state, and local regulations, applicable General Plan goals and policies, and applicable mitigation measures from previous plans as described would reduce the hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment to a less than significant level.

As it relates to the Project, General Plan Action EH-4.J and Mitigation Measures 4.6-1 and 4.6-2a (2010 Housing Element) are applicable. In accordance with Action EH-4.J and Mitigation Measure 4.6-2a of the 2010 Housing Element, a Phase I Environmental Site Assessment (ESA) (**Appendix D-1**) was prepared for the Project site because of the proposed change in use from the existing industrial use to a more sensitive residential use. The Phase I ESA, prepared in general conformance with the scope and limitations of American Society for Testing and Materials (ASTM) E1527-21 and the standards and practices of the All-Appropriate Inquiry – Final Rule (40 Code of Federal Regulations Part 312), identifies Recognized Environmental Conditions (RECs) on the Project site that are described in **Appendix D.** Further site assessment activities have been ongoing under the regulatory oversight by the Alameda County Water District. During the course of these activities a Phase II ESA (**Appendix D-2)** was prepared for the Project site. The Phase II ESA identifies and delineates a tetrachloroethylene (PCE) vapor plume that extends north from the area of the former waste oil tank location. COA HAZ-1 and HAZ-2 below are imposed consistent with the above referenced mitigation measures.

4.9(c) (Emit or Handle Hazardous Material within ¼ Mile of School Sites) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR concluded that the implementation of the General Plan would result in a less than significant impact as it relates to the release and exposure of hazardous material onto schools sites with ¼ mile of the Project site subject to implementation of the Mitigation Measures identified under Impact HAZ-3 above and implementation of General Plan goals, policies, and actions listed under Impacts HAZ-1, HAZ-2, and HAZ-4.

Kings Kids Preschool on Cedar Boulevard is located within ¼ mile of the Project site. Applicable Mitigation Measures 4.6-1 and 4.6-2a (2010 Housing Element) are incorporated as COA HAZ-1 and COA HAZ-2 below. Additionally, General Plan goals, policies and actions as they relate to routine transport, use, or disposal of hazardous materials, reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment, and development on the Project site, which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5, would ensure that the impacts to Kings Kid School are less than significant. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.9(d) (Existing Hazardous Materials Sites) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR concluded that implementation of the General Plan would result in less than significant impacts due to development on a hazardous materials sites compiled pursuant to Government Code Section 65962.5 subject mitigation measures and General Plan goals, policies and actions as specified above under Impacts HAZ-1, HAZ-2 and HAZ-4, and applicable regulations of the responsible state and local agencies. As applicable to the Project, Mitigation Measure 4.6-1 and 4.6-2a (2010 Housing Element Update), are included below as COAs HAZ-1 and HAZ-2. The Project site, although a hazardous materials site itself, would be required to be remediated per SFRWQCB and ACWD regulations and under their supervision prior to its development for residential use, per General Plan Policy HW-5.3. COA HAZ-2 would ensure that the City of Newark coordinates such activity with the responsible agencies. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.9(e) (Public Airport Land Use Plans, Public, Public Use Airport) No Change Relative to the 2013 FEIR: The 2013 FEIR concluded that no impacts related to airports or airstrips would occur as no airports are located within or proximate to the Plan area. The subject Project site is not located within the boundaries of an airport land use plan, public or public use airport nor is it located in direct proximity to a private airstrip. The nearest airport, Hayward Executive Airport, is located approximately 11 miles to the north of the Project site. Other area airports include, Palo Alto Airport, which is located approximately 16 miles southwest of the project site and Norman Y. Mineta San Jose International Airport, which is located further away at approximately 15 miles to the south of the Project site. Accordingly, no impacts associated with airport-related hazards will result from the Project. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.9(f) (Impair Emergency Response Plan) No Change Relative to the 2013 FEIR: The 2013 FEIR concluded that the General Plan would not impair implementation of or physically interfere with the City's emergency response plan or emergency Evacuation plan and impacts would be less than significant subject to compliance with applicable regulations, conditions of approval and the applicable General Plan goal, policies and actions identified above under Impact HAZ-7.

The City of Newark has adopted two emergency response plans. The "Emergency Operations Plan" is the City's primary plan which provides operational procedures for responding to a variety of emergency conditions, including earthquakes, flooding, tsunamis, hazardous material incidents, and civil defense conditions. The guidelines included in this plan address the needs of the entire community and identify key responsible agencies and personnel. The "Chemical Emergency Preparedness Supporting Plan" is the City's second response plan, which establishes standard operating procedures for responding to a chemical spill or hazardous materials incidents within the City.

As a medium density residential development on a housing opportunity site consistent with the General Plan and applicable policies, the proposed Project improvements are not expected to impair the implementation of, or physically interfere with the aforementioned plans. The Project is not altering the existing road network and includes adequate onsite access to accommodate emergency vehicles, including adequate driveway/drive aisle width and turning radii that have been reviewed and approved by the Alameda County Fire Department Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.9(g) (Wildland Fire Hazards) No Change Relative to the 2013 FEIR: The 2013 FEIR concluded that the General Plan would not result in impacts related to wildland fire hazard because of the highly urbanized nature of the Plan area and vicinity. Further, the General Plan goal and policies as identified under Impact HAZ-8 that pertain to compliance with development and code requirements and location of projects would ensure that the impacts are less than significant.

The Project area is largely surrounded by urban development and roadways and is not adjacent to a wildland urban interface fire hazard area. The Project site is not in an area categorized as any of the Fire Hazard Severity Zones by CAL FIRE and is surround by land also not included in any Fire Hazard Severity Zones. The Project development would also be subject to the California Building Code, California Fire Code, and the City of Newark Municipal Code and the Project site is proximate to an existing fire station at approximately one mile away from the fire station. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

Conclusion and Environmental Conditions of Approval

The Project would not result in any new or more severe impacts to human health caused by hazards or hazardous materials relative to what was identified the 2013 FEIR subject to implementation of applicable regulations, conditions of approval, and General Plan policies and actions. The Project is generally consistent with the Genera Plan by introducing medium density residential development on a site designated for such use. The following environmental conditions of approval are imposed in compliance with the General Plan goals, policies and actions regarding hazardous materials and waste:

COA HAZ-1: Prior to issuance of any demolition permit, the applicant/project developer shall have a qualified environmental professional complete testing on structures to be removed for the presence of actionable quantities of asbestos materials, lead based paint and other contaminants. These materials shall be remediated by a licensed contractor and disposed of in an appropriately licensed landfill. Necessary permits shall be obtained from the Alameda County Fire Department, Newark Building Inspection Division, the Bay Area Air Quality Management District and other agencies, as applicable. All work shall be performed in accordance with state and federal Occupational Safety and Health Administration (OSHA) standards. Worker safety plans shall be included for all demolition or deconstruction plans.

COA HAZ-2: The Project applicant shall implement the following actions:

1. Copies of the Phase I ESA shall be filed with the Alameda County Water District, Newark Community Development Department, the Newark Public Works Department and the Hazardous Materials Bureau of the Alameda County Fire Department.

2. Prior to the issuance of the grading permit, the applicant shall prepare a Soil and Water Management Plans (SWMPs) for the Project site as the Phase I ESA identifies actionable levels of soil and/or water contamination on the site. The SWMPs shall be prepared by a state-certified environmental professional and shall include, at minimum, a description of soils to be graded or disturbed as part of the project, detailed soil and water sampling to identify the extent of the contaminants, a description of site remediation activities and procedures for removing the contaminants, and location(s) for disposal of contaminated material. The applicant shall obtain necessary permits for implementation of the site remediation and shall also provide evidence to the City of Newark, prior to the issuance of the grading permit, demonstrating that the RECs have been resolved to the satisfaction of the applicable regulatory agencies for future residential land use. Permits and closure letters shall be obtained from appropriate agencies if site remediation is found.

3. Prepare a plan/s to deal with de-watering of the site and safe disposal of contaminated groundwater in the event of groundwater contamination on the site or vicinity. These plans shall be prepared by qualified environmental hazard consultants and approved by the Newark Community Development Director, or their designee, prior to grading permit issuance, and required permits shall be obtained from appropriate agencies for all site investigation and remediation.

4.10. HYDROLOGY AND WATER QUALITY

Would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	☐	☐	☒	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☐	☒
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:	☐	☐	☒	☐
i) result in substantial erosion or siltation on- or off-site;	☐	☐	☒	☐
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;	☐	☐	☒	☐
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☐	☐	☒	☐

iv) impede or redirect flood flows?	☐	☐	☒	☐
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☒	☐
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☒	☐

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013; Preliminary Stormwater Control Plan, prepared by cbg civil engineers, June 2, 2023; FEMA FIRMette maps, accessed June 2023; Department of Conservation Tsunami Hazard Area Map, accessed June 2023, and National Oceanic and Atmospheric Administration (NOAA) Office of Coastal Management, Sea Level Rise Viewer, accessed June 2023.

General Plan EIR Findings

The 2013 FEIR evaluated the potential impacts related to hydrology and water quality in Chapter 4.8 and determined the following.

- Impact HYD-1: Implementation of the proposed project (General Plan), would not violate any water quality standards or waste discharge requirements subject to compliance with the C.3 provisions set by the SFRWQCB, preparation of a Stormwater Management Plan (SWMP), implementation of stormwater management measures, preparation of an Operations and Maintenance (O&M) Plan[5] for post-construction water quality. and implementation of the General Plan goals and policies as follows: Policies CS-3.1, CS-3.4, CS-3.5, CS-3.8, and Actions CS-1.B, CS-3.G and CS-3.H. This impact is considered less than significant.

- Impact HYD-2: Implementation of the proposed project (General Plan) would not substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level subject to required compliance with ACWD's Well Ordinance (Ordinance No. 2010-01), coordination with the ACWD and SFRWQCB on a former Leaking Underground Fuel Tank (LUFT) site or Site Cleanup Program (SCP) site, C.3 provisions of the Alameda County Clean Water Program, the implementation of water use efficiency measures, and the following General Plan goals and policies: Policies CS-3.1, CS-3.3, CS-6.5 and Actions CS-3.A and CS-3.C.

- Impact HYD-3: Implementation of the proposed project (General Plan) would not substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion, siltation, or flooding on- or off-site subject to post construction storm water management measure pursuant to C.3 provisions of the Alameda County Clean Water Program and implementation of the following General Plan policies and actions: Policies CS-5.4 to CS-5.8, and Actions CS-5.D and CS-5.E. This impact is considered to be less than significant.

- Impact HYD-4: Implementation of the proposed project (General Plan) would not create or contribute runoff water, which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff with the implementation of C.3 provisions for new development, development impact fees that would require developers to pay a fair share of improvements to the storm drain system necessary to accommodate increased flows from the development, and the implementation of General Plan goals and policies as follows: Policies CS-5.5 to CS-5.8, and Actions EH-3.D, EH-3.E and CS-5.E. This impact is considered to be less than significant.

[5] Also referred to as a Stormwater Treatment Measures Maintenance Agreement.

- Impact HYD-5: Implementation of the proposed project (General Plan) would not otherwise substantially degrade water quality with implementation of the applicable regulations, namely, C.3 provisions of the Alameda County Clean Water Program and the City of Newark Municipal Code (NMC), Chapter 8.36 Stormwater Management and Discharge Control. This impact is considered to be less than significant.

- Impact HYD-6: Implementation of the proposed project (General Plan) would not result in a significant impact with respect to the placement of housing or structures, which would impede or redirect flood flows within a 100-year flood hazard area as mapped on a Federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map subject to applicable regulations, namely the FEMA Regulations in floodplains – LOMR-Fill Determination Requirements and NMC Chapter 15.40 Construction in Flood Hazard Areas as well as implementation of General Plan policies and actions as follows: Policies EH-3.3 to EH-3.5, EH-3.7 and EH-3.8, and Actions EH-3.A, EH-3.B, EH-3.C and EH-3.E. This impact is considered less than significant.

- Impact HYD-7: Implementation of the proposed project (General Plan) would not expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam subject to compliance with applicable regulations, namely, the FEMA – Levee Certification, California Division of Safety of Dams Regulations – California Water Code – Supervision of Dams and Reservoirs, and Association of Bay Area Government's (ABAG) Multi-Jurisdictional Local Hazard Mitigation Plan together with the implementation of General Plan Goals EH-3, EH-5, Policy EH-3.6, and Actions EH-5.G and EH-5.H. This impact is considered to be less than significant.

- Impact HYD-8: Implementation of the proposed project (General Plan) would not result in significant adverse effects related to inundation by seiche, tsunami, or mudflow the City of Newark is not considered to be subject to significant risk from tsunamis, seiches, or mudflows. Implementation of the following General Plan policies and actions would further reduce the risks: Goal EH-5, Policies EH-3.9, CS-5.8, EH-5.2 to EH-5.5 and Actions EH-5.A, EH-5.B, EH-5.C, EH-5.D, EH-5.E, EH-5.F, EH-5.G. This impact is considered to be less than significant.

- Impact HYD-9: Implementation of the proposed project (General Plan), in combination with past, present, and reasonably foreseeable development, would not result in a significant cumulative impact with respect to hydrology and water quality subject to compliance with applicable regulations, namely, the NPDES General Construction Permit, Alameda County Clean Water Program, NMC Chapter 8.36 Stormwater Management and Discharge Control and Chapter 15.40 Construction in Flood Hazard Zones together with General Plan Policies CSF-5.4, CSF-5.7 and Action CSF-5.E. The cumulative impact with respect to hydrology and water quality is considered to be less than significant.

Stormwater Regulations

The State Water Resources Control Board is responsible for implementing the Clean Water Act and has issued a statewide General Permit for construction, which acts to minimize pollutant runoff to surface waters and groundwater. The SFBRWQC board is the regional entity facilitating regional implementation and has issued a NPDES permit to Contra Costa County and its 19 cities. The NPDES permit applies to development projects and establishes runoff requirements. The City's coverage under the NPDES requires compliance with the Alameda Costa Clean Water Program Stormwater C.3 Guidebook to protect water quality, which includes implementing best management practices (BMP) to control runoff pollutants and guidance on Low Impact Development (LID) to manage stormwater on site. Further, these requirements for stormwater control under the NPDES permit are integrated into the City of Newark Municipal Code. The City of Newark Public Works Department has jurisdiction over stormwater management in the City and is a co-permittee of the Alameda County Clean Water Program.

Project Consistency with the 2013 FEIR

4.9(a) (Discharge) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR determined that the implementation of the General Plan would have a less than significant impact subject to the measures identified under Impact HYD-1 above. Accordingly, the Project is required to comply with the applicable requirements for stormwater control and apply best management practices to the management of stormwater on the Project site, including the stormwater regulations described above. The applicant submitted a "Preliminary Stormwater Control Plan", prepared by Carlson, Barbee & Gibson, Inc. (CBG), June 2, 2023, that has been reviewed and approved in concept by the City's Public Works Department. For final approval, the Public Works Department has required that, prior to grading permit issuance, the applicant shall provide the necessary plans, details, and calculations that demonstrate that the plan complies with the applicable Municipal Regional Stormwater NPDES Permit (MRP), as stated in COA HYD-1 below. Additionally, COA HYD-2 requires preparation of an Operations and Maintenance (O&M) Plan/Stormwater Treatment Measures Maintenance Agreement for post-construction water quality. With these measures the Project will be in conformance with the General Plan policies and actions applicable to the Project. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.9(b) (Groundwater) No Change Relative to the 2013 FEIR: Based on the analysis in the 2013 FEIR, the Project would not substantially deplete groundwater supplies with implementation of applicable regulations such as the Alameda County Water District's Well Ordinance and C.3 provisions of the Alameda County Clean Water Program The Project would be required to comply with these requirements. The Project does not involve the extraction and use of groundwater for its operation on the site. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.9(c)(i-iv) (Drainage Pattern) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR determined that the implementation of the General Plan would not substantially alter the drainage patterns and erosion and siltation impacts would be less than significant, subject to implementation of applicable C.3 provisions of the Alameda County Clean Water Program and General Plan policies as identified above under Impact HYD-3. The 2013 FEIR also determined that developments constructed under the purview of the General Plan would be subject to development impact fees that would require developers to pay a fair share of improvements to the storm drain system necessary to accommodate increased flows from the development. Additionally, the City of Newark has adopted standards of construction in flood hazard zones and projects in flood zones are reviewed by the Newark Public Works Department - Engineering Division in coordination with Alameda County Flood Control District (ACFCD) with detailed review of improvements plans to ensure that flood flows are addressed.

The Project would be subject to and required to comply with all applicable regulations including C.3 provisions of the Alameda County Clean Water Program and the City's Municipal Code that would reduce Project-specific impacts to a less than significant level. With respect to the capacity of the City's stormwater system, Newark is served by an existing storm drain system. As per the City Engineering Division, the Project would not result in inadequate capacity for stormwater discharges from the Project. Further, the City has established development impact fees for new developments such as multifamily residential projects to contribute to any needed new or expanded infrastructure. Payment of development impact fees is payable during the building permit process and final drainage plans are reviewed during the improvements plans review process. Development impacts fees are used to maintain and expand the City storm drain system as warranted. The Project is consistent with the development potential analyzed in the 2013 FEIR, including storm drain infrastructure onsite with connections to the existing drain system, and is subject to impact fees.

The Project site is partially in the AE flood zone (1 percent annual chance flood hazard) on the northwestern side of the Project site as presented in the National Flood Hazard Layer FIRMette maps accessed from the Federal Emergency Management Agency (FEMA) in June 2023. This area is adjacent to the ACFCD flood control channel. The City of Newark has adopted standards for construction in flood hazard zones whereby projects within the 100- year flood zone (1 percent annual chance flood hazard) would require the placement of fill to elevate structures above the 100-year floodplain elevation. In order for a project to be considered outside of the floodplain and no longer subject to special flood hazard requirements, the project applicant would have to submit an application to FEMA for a Letter of Map Revision – Fill (LOMR-F) after the fill has been placed. Upon revision of the Flood Insurance Rate Map (FIRM) to show that the project is now outside of the

SFHA, the City would no longer be required to apply the minimum NFIP floodplain management standards to structures built on the land and the mandatory flood insurance requirements would no longer apply. NMC Chapter 15.40 governs construction in Special Flood Hazard Areas (SFHA) and includes standards for development to minimize flood hazard risks. The Department of Public Works has placed conditions of approval on the Project to address the flood hazard on the Project site that are reproduced below as COA HYD-3 through COA HYD-5. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.9(d) (Flood Hazard, Tsunami, or Seiche Zones) No Substantial Change Relative to the 2013 FEIR: The Project site is partially located in the flood zone AE (1 percent annual chance flood hazard) as described above. However, the risk of the release of pollutants due to project inundation would be less than significant with implementation of COA HYD-2. The Project site is not located on the shoreline and is not subject to associated risk of flooding in these areas. The Project site is not located in an area identified as a shoreline area vulnerable to sea level rise as per the National Oceanic and Atmospheric Administration (NOAA) Office of Coastal Management data on sea level rise (Sea Level Rise Viewer), accessed June 2023. Tsunamis and seiches are not identified as significant flood hazards that may affect the Project as the Project site is located more than 5 miles from the shoreline. The site is not located in a tsunami hazard area, as shown in the California Department of Conservation Tsunami Hazard Area Map, accessed June 2023. As a result, there would be no substantial risk of flood hazards, tsunamis, or seiches causing release of pollutants due to Project inundation. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.9(e) (Water Quality Control and Sustainable Groundwater) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR determined that new development would be required to adhere to applicable regulations, namely the Alameda County Clean Water Program – C.3 Provisions and NMC, Chapter 8.36 Stormwater Management and Discharge.

The Project would be required to include source control, site design, and LID measures in compliance with the C.3 measures and comply with applicable requirements of the NMC. It would thus not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

Conclusion and Environmental Conditions of Approval

The proposed Project is within the scope of development projected under the General Plan and there would be no additional impacts to hydrology beyond those analyzed in the 2013 FEIR. The following environmental conditions of approval would apply to the Project.

COA HYD-1: Preliminary Stormwater Treatment Plan is approved in concept only. Final approval is subject to the applicant providing, prior to the issuance of the grading permit, the necessary plans, details, and calculations that demonstrate the plan complies with the Municipal Regional Stormwater NPDES Permit (MRP), Order R2-2022-0018, revised July 1, 2022, issued to the City of Newark by the Regional Water Quality Control Board, San Francisco Bay Region.

COA HYD-2: Prior to issuance of a building permit, the applicant shall prepare a Stormwater Treatment Measures Maintenance Agreement for post-construction water quality. The Agreement shall be reviewed and accepted by the City Engineer prior to Project Construction on the site.

COA HYD-3: The Project's development, including streets and surface improvements, shall be placed above the 100-year flood elevation as confirmed by the City Engineer.

COA HYD-4: Prior to final map approval, the applicant shall apply and receive approval for a conditional letter of map revision based on fill (CLOMR- F) from the Federal Emergency Management Agency (FEMA). The CLOMR-F shall be based upon the project grading plan and shall conclude that the structures for human occupancy will be removed from the special flood

hazard area (SFHA). Prior to occupancy of any buildings within the SFHA, the developer shall apply and receive approval of a letter of map revision based on fill (LOMR-F) from FEMA. On July 1, 2023, FEMA temporarily suspended the processing of CLOMR-Fs and LOMR-Fs. If, prior to final map approval, the temporary suspension of CLOMR-Fs and LOMR-Fs is still in effect, the CLOMR-F application to FEMA shall be deferred and applied for as soon as the temporary suspension is lifted. If, prior to occupancy, the temporary suspension of CLOMR-Fs and LOMR-Fs is still in effect, the applicant shall provide complete Elevation Certificates demonstrating that the property for occupancy is outside the Special Flood Hazard Area. Prior to tract acceptance, if the temporary suspension of CLOMR-Fs and LOMR-Fs is still in effect, the applicant shall submit the LOMR-F application package to the City or enter into a deferred agreement with the City for preparing and processing the LOMR-F application package once FEMA lifts the suspension. In either options, the cost of the preparation and fees associated with the FEMA LOMR-F application shall be paid for by the applicant.

COA HYD-5: The applicant shall submit detailed grading and drainage plans for review and approval by the City Engineer and the Alameda County Flood Control and Water Conservation District. These plans must be based upon a City benchmark and need to include pad and finish floor elevations of each proposed structure, proposed on-site property grades, proposed elevations at property line, and sufficient elevations on all adjacent properties to show existing drainage patterns. All on-site pavement shall drain at a minimum of one percent. The applicant shall ensure that all upstream drainage is not blocked and that no ponding is created by this development. Any construction necessary to ensure this shall be the applicant's responsibility.

Hydrology and hydraulic calculations shall be submitted for review and approval by the City Engineer and the Alameda County Flood Control District prior to approval of the final map. The calculations shall show that the City and County freeboard requirements will be satisfied.

4.11. LAND USE AND PLANNING

Would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
a) Physically divide an established community?	☐	☐	☐	☒
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☒

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013

General Plan EIR Findings

The 2013 FEIR evaluated potential impacts to Land Use in Chapter 4.9 and determined the following:

- Impact LU-1: Implementation of the proposed project (General Plan) would not physically divide an established community subject to compliance with the applicable provisions of the NMC, namely, Title 16, Subdivision Ordinance and Title 17, Zoning Code, together with implementation of General Plan policies and actions intended to foster greater connectivity in the Plan Area and to prevent new development from dividing existing communities, as follows: Policies LU-2.6, LU-4.2, LU-2.5, T-1.4, T-2.3, T-2.5, T-2.12, T-2.10, T-2.2, T-2.9, and Actions T-2.B, T-2.G and T-2.H. This impact is considered less than significant.

- Impact LU-2: Implementation of the proposed project (General Plan) would not conflict with an applicable land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. This impact is considered less than significant, subject to implementation of General Plan Actions LU-6.A, LU-7.B and LU-7.E that are applicable to the Dumbarton TOD Specific Plan Implementation and Southwest Newark Residential and Recreational Focus Area.

  the Project site as it is not part of either the Dumbarton TOD Specific Plan Area or the Southwest Newark Residential and Recreational Focus Area, therefore the above stated does not apply to the Project and there would be no related impact as a result of the Project.

- Impact LU-3: Implementation of the proposed project (General Plan) would not result in significant conflicts with the Bay Plan and the Don Edwards San Francisco Bay National Wildlife Refuge Comprehensive Conservation Plan (CCP). Numerous General Plan policies and actions are consistent with the objectives of the Bay Plan, including Policies CS-1.1 to CS-3.1, CS-2.1 and CS-3.1, and Actions CS-2.A, CS-3.G, and CS-3.H. Implementation of General Plan policies and actions as follows would minimize disturbances and support the goals of the CCP: Policies CS-1.1 to 1.3, CS-1.5, CS-2.1 to CS-2.3, CS-2.7, CS-3.4, CS-3.5, and Actions LU-7.A, CS-1.A, CS-1.C, CS-2.A, CS-2.D, CS-2.E, CS-3.H, POS-1.A and POS-1.B.

- Impact LU-4: When considered in combination with past, present, and reasonably foreseeable development in the surrounding area, implementation of the proposed project would not result in significant cumulative impacts with respect to land use and planning. The proposed project would have a less than cumulatively considerable contribution to this impact.

Project Consistency with the 2013 FEIR

4.1(a) (Physically Divide Community) No Change Relative to the 2013 FEIR: The Project is consistent with the General Plan land use designation of Medium Density Residential and RM zoning applicable to the site, which is contained between I-880 and Cedar Boulevard. Development on this site would not disrupt the established physical layout of the existing community with new roads, above ground infrastructure or easements running through offsite through the existing development in the vicinity. The Project would conform to the provisions of the NMC including development standards such as setbacks and height. The Project would be consistent with applicable General Plan Policy LU-2.6 regarding scale transition in that there would not be an abrupt transition in height between the development proposed by the Project and existing and approved development in the vicinity. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.1(b) (Conflict with Land Use) No Substantial Change Relative to the 2013 FEIR: The Project site is not within the Dumbarton TOD or Southwest Newark Residential and Recreational Focus Area and the use and density of development proposed by the Project is consistent with the Medium Density Residential land use designation for the site. The Project would comply with the applicable provisions of the City's Zoning Code. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

Conclusion

The Project would not result in any new or more severe impacts to energy relative to what was identified in the 2013 FEIR. The Project consists of development consistent with the land use and zoning code as provided. No environmental conditions of approval related to land use are required.

4.12. MINERAL RESOURCES

Would the project:	New Significant Impact Not	More Severe Impact	No Substantial Change	No Change Relative to the 2013 FEIR

	Identified in 2013 FEIR	Relative to 2013 FEIR	Relative to 2013 FEIR	
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	☐	☐	☐	☒

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013

General Plan EIR Findings

The 2013 FEIR describes that there are no mineral recovery sites in Newark and while the State Board of Mining and Geology has identified mineral resource zones (MRZ) underlying almost all of the Plan Area, given the extent of urban development in Newark and the proximity of sensitive environmental resources in the Don Edwards San Francisco Bay National Wildlife Refuge, future mineral extraction is unlikely, and an area that was previously designated as containing extractable aggregate deposits is no longer considered to be underlain by aggregate resources per Update of Mineral Land Classification: Aggregate Materials in the South San Francisco Bay Production-Consumption Region (1996). As such, impacts related to the loss of mineral resource availability from the implementation of the project (General Plan) would be less than significant.

Project Consistency with the 2013 FEIR

4.12(a-b) (Mineral Resources) No Change Relative to the 2013 FEIR: The City does not contain known significant mineral resources of value. As such, the Project would result in no impact to mineral resources. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

Conclusion

The Project would not result in any new or more severe impacts to mineral resources relative to what was identified in the 2013 FEIR.

4.13. NOISE

Would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☐	☒	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose	☐	☐	☐	☒

people residing or working in the project area to excessive noise levels?

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013, Environmental Noise Assessment, prepared by Salter, November 11, 2022, and Environmental Review of Construction Noise and Vibration, prepared by Salter, May 2, 2023.

General Plan EIR Findings

The 2013 FEIR evaluated potential impacts to Noise in Chapter 4.10 and determined the following:

- Impact NOI-1: Implementation of the proposed project (General Plan) would not expose people to or generate noise levels in excess of standards established in the General Plan or the NMC and/or the applicable standards of other agencies. This impact is considered less than significant, subject to compliance with the California Building Code and Newark Land Use Noise Compatibility Guidelines and the implementation of General Plan Policy EH-7.4, Action EH-7.A as it pertains to interior noise, and Actions EH-6.A and EH-7.A as it pertains to exterior noise.

- Impact NOI-2: Implementation of the proposed project (General Plan) would not expose people to or generate excessive groundborne vibration or groundborne noise levels. This impact is considered less than significant, subject to compliance with the California Building Code and Newark Land Use Noise Compatibility Guidelines and the implementation of General Plan policies and actions for non-residential uses as follows: Policies LU-2.5, LU-3.5, EH-6.4, EH-7.3, EH-7.6, and Actions EH-6.6, EH-6.7, EH-7.B, EH-7.C, EH-7.D, EH7.E, EH7.F, EH-6.B, and LU-2.A..

- Impact NOI-3: Implementation of the proposed project (General Plan) would result in a substantial permanent increase in ambient noise levels in the Plan Area above levels existing without the project with increases in vehicular traffic because of the project implementation in conjunction with regional growth. The permanent increases to ambient noise levels would exceed applicable standards along ten major roadway segments in the Plan Area. Implementation of the applicable goals, policies and actions of the General Plan would reduce or prevent significant increases in ambient noise at sensitive land uses under implementation of the project. However, the mitigation measures described in these policies would not be universally feasible and/or appropriate. No additional measures are available to reduce this impact to a less than significant level and related impacts would be significant and unavoidable. A statement of overriding consideration was adopted with the certification of the 2013 FEIR.

- Impact NOI 4: Implementation of the proposed project (General Plan) would not result in substantial temporary or periodic increases in ambient noise levels in the Plan Area above existing levels subject to compliance with the California Building Code and Newark Land Use Noise Compatibility Guidelines, and the implementation of General Plan Policies EH-6.6, EH-6.7, and Action EH-7.B. This impact is considered less than significant.

- Impact NOI-5: Implementation of the proposed project (General Plan) would not result in exposure of people residing or working in the vicinity of the Plan area to excessive aircraft noise levels, for a project located within an airport land use plan, or where such a plan has not been adopted, within 2 miles of a public airport or public use airport because there are no areas in Newark which fall within an airport land use plan or 55 (decibels) dBA contour for any of the airports located in proximity to the city and all public and public use airports in the vicinity are located a distance of 5 miles or greater. This impact is considered to be less than significant.

- Impact NOI-6: Implementation of the proposed project (General Plan) would not result in exposure of people residing or working in the project area to excessive noise levels, for a project within the vicinity of a private airstrip because there are no private airstrips within Newark and heliports operated by First Interstate Bank and Washington Hospital in Fremont are located at a distance of 1.7 and 2.2 miles,

respectively, from the City of Newark border and used sporadically. Therefore, noise impact related to private airstrips would be less than significant.

Project Consistency with the 2013 FEIR

4.13(a) (Increase in Ambient Noise) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR determined that implementation of the General Plan would have a less than significant impact related to temporary or permanent increases in ambient noise levels subject to compliance with the California Building Code and Newark Land Use Noise Compatibility Guidelines with implementation of General Plan policies and actions as identified above under Impact NOI-1.

The Project would entail the demolition of the existing buildings, grading/site preparation work and the construction of 76 alley-loaded three-story residences (townhomes) and associated improvements on a site located adjacent to I-880. As indicated in the "Environmental Review of Construction Noise and Vibration", prepared by Salter, May 2, 2023 (**Appendix E-1**), construction noise would vary depending on the type of equipment being used, the process, and the location. COA In accordance with Action EH-6.6 and Action EH-6.7 in the General Plan, COA NOI-1 will be implemented to regulate hours of construction and to address construction noise sources. Implementation of these conditions of approval would render impacts from increases in temporary ambient noise less than significant.

Project generated noise at operations will consist of noise from traffic generated by the Project and mechanical equipment generally associated with the ventilation for the proposed buildings. The Project is anticipated to generate 562 net daily trips in an environment dominated by existing traffic noise from I-880 and the Project traffic noise would not add substantially to the existing ambient noise levels. COA NOI-2 below sets limits on noise from mechanical equipment in accordance with NMC Section 17.24.100(A)(2).

Although the effect of ambient noise on the Project is not considered an environmental impact under CEQA, General Plan Action EH-7.A requires the preparation of an acoustical study for new developments in areas where the noise levels exceed the 'normally acceptable' levels for the proposed land use, as set forth in the General Plan. Action EH-7.A also recommends that the analysis include mitigation measures to limit the noise exposure in interior living spaces to 45 dB Ldn (Day Night Average Sound Level), consistent with California Title 24. In accordance with Action EH-7.A, an acoustical study "Environmental Noise Assessment", November 11, 2022, was prepared by Salter (**Appendix E-2**). As indicated in this study, the Project is located in an area where the noise levels exceed the normally acceptable levels of 65 dB or less set forth for multi-family residential use. COA NOI-3 and COA NOI-4 shall be imposed on the Project based on this study to reduce the effects of ambient environmental noise on the project as required by the General Plan, more specifically, Action EH-7.A. and Policy EH-7.4. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.13(b) (Groundborne Vibration) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR determined that impacts from groundborne vibrations would be less than significant subject to compliance with the California Building Code and Newark Land Use Noise Compatibility Guidelines with implementation of General Plan policies and actions as identified above under Impact NOI-2.

As a residential development, the Project would not result in long-term and excessive groundborne vibration and groundborne noise after construction. During construction, the Project may generate temporary and intermittent groundborne vibrations and noise through the operation of construction equipment, material hauling, and earthwork. The study "Environmental Review of Construction Noise and Vibration", prepared by Salter, May 2, 2023 (**Appendix E-1**) addressed construction groundborne vibrations. This study compared the groundborne vibration levels from vibration intensive equipment such as jackhammers and vibratory rollers that could potentially have a noticeable effect to the Federal Transit Administrations (FTA) vibration annoyance criteria in accordance with General Plan Action EH-7.E. Action EH-7.E requires implementation of additional measures such as the use of less-vibration intensive equipment or construction techniques if construction-related vibration is determined to be perceptible (i.e., in excess of FTA vibration annoyance criterion) at vibration-sensitive uses. Accordingly, COA NOI-5 sets forth distances required for operation of different types of equipment from the motel building toward the south of the Project site to offset vibration levels in excess of

the annoyance criteria. Groundborne vibrations as a result of the Project's construction would not exceed the 78 VdB annoyance criteria at nearby residences that are located approximately 100 feet from the Project site. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.13(c) (Airfield Noise) No Change Relative to the 2013 FEIR: The 2013 FEIR determined that noise impacts due to the proximity of the Project site to an airfield would be less than significant. The City is not located within the vicinity of a private airstrip or an airport land use plan, nor is it within two miles of a public airport or public use airport. As indicated in Chapter 4.9 of this document, the nearest airport, Hayward Executive Airport, is located approximately 11 miles to the north of the Project site. Other area airports include, Palo Alto Airport, which is located approximately 16 miles southwest of the project site and Norman Y. Mineta San Jose International Airport, which is located further away at approximately 15 miles to the south of the Project site. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

Conclusion and Environmental Conditions of Approval

The Project would not result in any new or more severe impacts to noise relative to what was identified in the 2013 FEIR with the implementation of the following conditions of approval:

COA NOI-1: The following noise reduction measures will be implemented to minimize the impact of construction noise onto offsite receivers:

1. Construction activity shall be limited to the hours of 7 AM to 7 PM Monday through Friday and 10 AM to 6 PM on Sundays and holidays. Noise from construction activity occurring outside these hours will be limited to the levels outlined in the Newark Municipal Code Section 17.24.100.A.3.

2. The contractor shall require properly maintained mufflers on construction vehicles.

3. To the extent feasible, stationary construction equipment and staging areas shall be located as far as possible from adjacent residences and the motel.

4. The contractor shall implement temporary noise barriers between noisy activities and adjacent residences and the motel.

5. To the extent feasible, construction should proceed from Cedar Boulevard towards Intestate 880, and from south to north, so that constructed buildings will help shield residences from equipment and construction activities.

6. The contractor will designate a "noise disturbance coordinator" who would be responsible for responding to any local complaints about construction noise.

7. Signs will be posted at the construction site to notify the neighborhood of permitted days and hours of activities, and to provide a day-time telephone number for the noise disturbance coordinator.

COA NOI-2: Mechanical equipment noise as a result of the Project shall be limited to no more than 70 dBA between the hours of 7 a.m. and 9 p.m., and 60 dBA between the hours of 9 p.m. and 7 a.m in accordance with NMC Section 17.24.100.A.2).

COA NOI-3: Exterior building assemblies shall be sound-rated to reduce environmental noise to the DNL 45 dB criterion indoors. Sound insulation ratings should be for the complete assembly, including glass and frame, and should be based on laboratory test reports of similar sized samples from a National Voluntary Laboratory Accreditation Program (NVLAP) accredited lab. Since windows will need to be closed to meet the interior noise criteria, the mechanical design

should meet ventilation requirements with windows in the closed position. The building assemblies shall be reviewed and accepted to meet the aforementioned criteria during the building permit process.

COA NOI-4: The height of the 18-foot tall retaining wall to the rear of the Project site adjacent to I-880 that would serve as a noise barrier shall be measured with respect to the freeway elevation, or yard elevation, whichever is higher. The barrier shall extend the length of the site and wrap the ends, returning towards Cedar Boulevard and shall be solid from bottom to top with no cracks or gaps and have a minimum surface density of approximately three pounds per square foot to reduce traffic noise levels in Project related outdoor spaces to DNL 65 dB or below. The barrier shall step down along the side property lines from a height of 18 feet to 8 feet, as shown in Figure 2 of the Environmental Noise Assessment, prepared by Salter, November 11, 2022.

COA NOI-5: Limit the use of the following construction equipment to the following distances from the motel building located toward the south of the Project site.

1. Large bulldozers and loaded trucks to a minimum of 50 feet.
2. Jackhammering to a minimum of 30 feet.
3. vibratory rollers to a minimum of 85 feet.

4.14.POPULATION AND HOUSING

Would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☒
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013, and City of Newark, 5th Cycle 2015-2023 Housing Element Update for the 2015-2023 Period.

General Plan EIR Findings

The 2013 FEIR evaluated potential impacts to Population and Housing in Chapter 4.11 and determined the following:

- Impact POP-1: Implementation of the proposed project (General Plan) would not induce substantial unplanned population growth in the Plan Area either directly or indirectly, subject to the implementation of Mitigation Measure 4.9-1 from the Newark Housing Element EIR and General Plan Policies LU-1.2 and LU-1.4. This impact is considered less than significant.

- Impact POP-2: Implementation of the proposed project (General Plan) would not displace substantial numbers of existing housing units, necessitating the construction of replacement housing elsewhere, subject to implementation of the General Plan Policies LU-1.2, LU-1.8 and LU-1.10. This impact is considered less than significant.

- Impact POP-3: Implementation of the proposed project (General Plan) would not displace substantial numbers of people, necessitating the construction of replacement housing elsewhere, subject to implementation of General Plan Policy LU-1.8 and the development of new housing units as per the General Plan. This impact is considered to be less than significant.

- Impact POP-4: Implementation of the proposed project (General Plan), in combination with past, present, and reasonably foreseeable projects, would not result in significant cumulative impacts with respect to population and housing as buildout of the project would be consistent with regional planning initiatives, and occur incrementally over a period of 20 years and would not represent substantial, unplanned growth even though and the project could result in more growth than currently envisioned in regional projections. This is less than cumulatively considerable.

Project Consistency with the 2013 FEIR

4.14(a) (Induced Substantial Growth). No Change Relative to the 2013 FEIR: The Project is consistent with the planned development potential analyzed in the 2013 FEIR and the Project site is largely served by existing infrastructure within an established urban environment. The project site is a part of the Cedar Boulevard Industrial to Residential Conversion area identified as Site "G" in the City of Newark Housing Element Update 2015. The Project proposes 76 residential units, which will result in 252 additional persons at a household size of 3.32 persons[6] in Newark that is well within the population of 60,510 persons anticipated in the General Plan at buildout, analyzed in the 2013 FEIR. Since the adoption of the General Plan, the city has not experienced

[6] https://www.census.gov/quickfacts/newarkcitycalifornia, last accessed June 2023

substantial population growth, but has decreased by 0.4 percent from April 1, 2020, to July 1, 2022, as per the United States Census data. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

4.14(b) (Displacement). No Change Relative to the 2013 FEIR: The 2013 FEIR determined that impacts from displacement would be less than significant with the implementation of policies identified under Impact POP-2, and Impact POP-3. Consistent with these policies, the General Plan has designated areas for the development of housing in the city, with the intent to increase the amount and variety of housing opportunities. The Project involves the development of new housing units without demolishing existing housing units or causing displacement. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

Conclusion

The Project would not result in any new or more severe impacts to population and housing relative to what was identified in the 2013 FEIR. The Project consists of development consistent with the projected growth under the General Plan and no environmental conditions of approval related to population and housing are required.

4.15.PUBLIC SERVICES

Would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:	☐	☐	☒	☐
Fire Protection?	☐	☐	☒	☐
Police Protection?	☐	☐	☒	☐
Schools?	☐	☐	☒	☐
Parks?	☐	☐	☒	☐
Other public facilities?	☐	☐	☒	☐

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013

General Plan EIR Findings

The 2013 FEIR evaluated potential impacts to Public Services in Chapter 4.12 and determined the following:

Fire Protection

- Impact PS-1: Implementation of the proposed project (General Plan) would not result in the provision of or need for new or physically altered fire protection facilities, the construction or operation of which

could cause significant environmental impacts because, per the Alameda County Fire Department (ACFD), the increase in population at project buildout would not require the construction or expansion of facilities. Further compliance with the provisions of the California Building Code and California Fire Code and implementation of the following General Plan goals, policies and actions would reduce the risks associated with fire hazards and minimize calls for fire and emergency medical response services in Newark: Goals CS-2 and CSF-4; Policies CSF-4.2, CSF-4.4 to CSF-4.7, and Actions CSF-4.F, CSF-4.G and CSF-4.H. This impact is considered to be less than significant.

- Impact PS-2: Implementation of the proposed project (General Plan), in combination with past, present, and reasonably foreseeable development, would not result in significant cumulative impacts with respect to fire protection service subject to the California Building Code, California Fire Code, and development review of future projects under the General Plan and ACFD Strategic Business Plan. This is a less than cumulatively considerable impact.

Law Enforcement Services

- Impact PS-3: Implementation of the proposed project (General Plan) would not result in a significant impact related to the construction or expansion of police facilities with continued collection of Capital Facilities Fees from development under the proposed project and implementation of General Plan Goal CSF-4, Policy CSF-4.1, and Actions CSF-4 and CSF-4.D.

- Impact PS-4: Implementation of the proposed project (General Plan), in combination with past, present, and reasonably foreseeable growth, would not result in significant cumulative impacts with respect to law enforcement services subject to Capital Facilities Fees from development under the Plan and development review of future projects under the General Plan and because the changes and growth anticipated under the proposed Plan would not have any cumulative impact beyond the service boundary of the Newark Police Department service area. This is less than cumulatively considerable impact.

Public Schools

- Impact PS-5: Implementation of the proposed project (General Plan) would not result in the provision of or need for new or physically altered school facilities, the construction or operation of which could cause significant environmental impacts subject to school impact fees and pursuant to the provisions of California Government Code Section 65996(3)(h) whereby payment of these fees is deemed to be full and complete mitigation of these impacts. This is a less than significant impact. Further, General Plan Policies CSF-2.1 and CSF-2.2, and Actions CSF-2.A and CSF-2.B provide the framework for the accommodation of increased enrollment as it occurs incrementally over the horizon of the proposed project.

- Impact PS-6: Implementation of the proposed project (General Plan) in combination with past, present, and reasonably foreseeable growth in the Newark Union School District Service area would result in less than significant cumulative impacts with respect to schools subject to the payment of school impact fees by future development under the Plan and implementation of the policies and actions identified above. This is a less than cumulatively considerable impact.

Parks

- Impact PS-7: Implementation of the proposed project (General Plan) would not result in substantial adverse physical impacts associated with the provision of new or physically altered parks and recreational facilities in order to maintain the City's adopted ratio of parkland per thousand residents with the implementation of the General Plan Actions POS-3.A, POS-3.D and POS-3.H and subject to project-level CEQA review at the time future park facilities are proposed for construction in order to identify and mitigate associated impacts, as needed. This impact is considered to be a less than significant impact.

- Impact PS-8 is discussed under the "Recreation Section".

- Impact PS-9 is discussed under the “Recreation Section”.

- Impact PS-10 is discussed under the “Recreation Section”.

Other Facilities

- Impact PS-11: Implementation of the proposed project (General Plan) would not result in the need for new or physically altered library facilities with the implementation of the Goal CSF-1, Policy CSF-1.6, and Actions CSF-1.E and CSF-1.F. This impact is considered to be a less than significant impact.

- Impact PS-12: Implementation of the proposed project (General Plan), in combination with past, present, and reasonably foreseeable development, would result in less than significant cumulative impacts with respect to libraries because the proposed project is not anticipated to contribute to a substantial adverse impact on the library system’s ability to serve its constituents and future library expansion or improvements when and if identified would undergo project specific CEQA review. This is less than cumulatively considerable impact.

Project Consistency with the 2013 FEIR

4.15(a) (Public Services) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR determined impacts to public services to be less than significant with implementation of the policies set forth in the General Plan, as identified above. The 2013 FEIR concluded that the increase in population at buildout of the General Plan would not require the construction or expansion of fire protection facilities, required development fees would offset the increase in the use of police, schools, parks and other services, and engagement of respective departments in the review of future development projects would ensure that projects are designed and developed to minimize impacts.

The Project is consistent with the development potential analyzed in the 2013 FEIR and the Project plans were reviewed and accepted by the Fire and Police Departments. The Project is a multifamily residential development that could potentially create direct impacts on educational services provided by schools through the addition of new students. The 2013 FEIR determined that much of the additional demand as a result of the buildout of the General Plan was accounted for in the Newark Union School District (NUSD) projections. Additionally, the Project would be subject to school impact fees where payment of these fees is deemed to be full and complete mitigation of school impacts pursuant to the provisions of California Government Code Section 65996(3)(h). Additionally, the increase in demand for parks associated with population growth and development was considered in the 2013 FEIR. The Project is consistent with the projected buildout analyzed in the 2013 FEIR, which determined impacts to existing parks would be less than significant. Additionally, as described in Chapter 4.16 of this document, the Project would include common and private open space areas, for use by the residents, that conform to the respective open space standards applicable to the RM zoning district per NMC Section 17.07.030. Additionally, the Project is subject to development impact fees to fund maintenance, acquisition, and development of City of Newark public park and recreational facilities. Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

Conclusion

The Project would not result in any new or more severe impacts to public services relative to what was identified in the 2013 FEIR. The Project consists of development anticipated in and consistent with the General Plan and the required development impact fees would offset potential incremental increase in the use of services. No environmental conditions of approval related to public services are required.

4.16.RECREATION

Would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☐	☒
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☒	☐

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013.

General Plan EIR Findings

The 2013 FEIR evaluated potential impacts to recreational parks and facilities in Chapter 4.12, Public Services and Recreation, and determined the following:

- Impact PS-7: The proposed Plan would not result in substantial adverse physical impacts associated with the provision of new or physically altered parks and recreational facilities in order to maintain the City's adopted ratio of parkland per thousand residents subject to implementation of POS-3.A, POS-3.D, and POD-3.H.

- Impact PS-8: Implementation of the proposed project (General Plan) would not increase the use of existing neighborhood and regional parks or other recreational facilities, such that substantial physical deterioration of the facility would occur, or be accelerated with the implementation of General Plan Goal POS-3, and Policies POS-3.1, POS-3.2 and POS-3.8. This impact is considered to be a less than significant impact.

- Impact PS-9: Implementation of the proposed project (General Plan) would not include or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment as described under Impact PS-7 above. This impact is considered to be a less than significant impact.

- Impact PS-10: Implementation of the proposed project (General Plan), in combination with past, present, and reasonably foreseeable growth, would not result in significant cumulative impacts with respect to parks and recreational facilities with the implementation of the following General Plan goal, policies and actions: Goal PR-5, Policies PR-1.5, PR-4.4, PR-5.1 to PR-5.8, and Actions PR-5.A, PR-5.B, PR-5.C and PR-5.D. This is less than cumulatively considerable impact.

Project Consistency with the 2013 FEIR

4.16(a) (Deterioration of Parks) No Change Relative to the 2013 FEIR: The 2013 FEIR concluded that the General Plan would not result in a significant impact to existing recreational facilities because of increased use. The Project does not directly propose the construction of any parks or recreational facilities; however, it will implement numerous goals, policies, and actions that seek to promote and encourage the development of parks in the Plan Area. Specific actions for increasing provision of parks are identified above in Impact PS-7 discussion. Further, General Plan goals and policies identified under Impact PS-8 and PS-9 would be implemented to keep up with the anticipated population increase at buildout, modernization, and maintenance of existing recreations facilities.

The Project is generally consistent with the General Plan as a medium density residential development on a site designated for such use in the General Plan and is not expected to result in substantially more significant impacts to parks or recreational facilities as compared to the impacts analyzed in the 2013 FEIR. Additionally, the Project would include common and private open space areas that conform to the respective open space standards applicable in the RM zoning district per NMC Section 17.07.030. The Project would also be subject to parks impact fees, which are used to fund maintenance, acquisition, and development of Newark parks and recreational facilities.

4.16(b) (Additional Recreational Facilities) No Substantial Change Relative to the 2013 FEIR The General Plan does not directly propose the construction of any parks or recreational facilities; however, it includes goals, policies, and actions that seek to promote and encourage the development of parks in the Plan Area. The facilities that were identified as a result of these goals, policies and actions were analyzed in previous EIRs for the Dumbarton TOD and Southwest Newark Residential and Recreational Focus Area at a programmatic level and would be analyzed at the project level at the time of the development of the specific park projects. The Project is located away from these areas and does not require additional facilities beyond what has been planned. The Project's contribution to development impact fees would be sufficient to fund parkland acquisition as well as maintenance and development of Newark parks and recreational facilities. Therefore, environmental impacts related to construction, or expansion of recreational facilities are not expected to be substantially new or more severe relative to the 2013 FEIR as a result of the proposed Project.

Conclusion

The Project would not result in any substantially new or more severe impacts to recreation relative to what was identified in the 2013 FEIR. The Project consists of residential development anticipated by the General Plan overall and will be subject to payment of park fees and no environmental conditions of approval related to recreation are required.

4.17.TRANSPORTATION

Would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	☐	☐	☒	☐
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	☐	☐	☒	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☒	☐
d) Result in inadequate emergency access?	☐	☐	☒	☐

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013; Traffic Impact Study Report, prepared by TJKM, revised April 21, 2023; Cedar Townhomes VMT Analysis Memo, prepared by TJKM, October 14, 2022; Cedar/Smith Signal Warrant and Fair Share Assessment, prepared by TJKM, May 2023, and Cedar Boulevard Landscape Plans, Sheet L-1, Illustrative Site Plan, and Sheet L-2, Pedestrian Circulation Plan.

General Plan EIR Findings

The 2013 FEIR evaluated potential impacts to Traffic and Circulation in Chapter 4.13 and determined the following:

- Impact TRANS-1: Implementation of the proposed project (General Plan) would cause intersection operation to degrade to an unacceptable LOS F at the a) Ardenwood Boulevard and SR 84 westbound ramps intersection during the AM peak hour in 2035, b) the Newark Boulevard and SR 84 eastbound ramps intersection during the PM peak hour in 2035, and c) the Cherry Street/Boyce Road and Stevenson Boulevard intersection during the PM peak hour at buildout. This is considered a significant impact and remains significant and unavoidable with mitigation. A statement of overriding consideration was adopted with the certification of the 2013 FEIR.

  None of the above referenced intersections would be impacted by the Project traffic and were not required to be studied as part of the Project.

- Impact TRANS-2: Implementation of the proposed project (General Plan) would not conflict with the 2011 Alameda County Transportation Commission (CTC) Congestion Management Program (CMP) and would not add traffic representing more than 1 percent of the roadway capacity to any of the Metropolitan Transportation System (MTS) roadway segments in the Plan Area or its vicinity. Additionally, congestion levels would be reduced by the following General Plan goals, policies and actions: Goals T-3, T-4, Policies T-3.1, T-3.3, T-3.4, T-4.1 to T-4.9, T-6.1, T-6.2 and T-6.4, and Actions T-3.A to T-3.C, T-4, T-4.A to T-4.E. This impact is considered a less than significant impact.

- Impact TRANS-3: Implementation of the proposed project (General Plan U) would not result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks because as described in Chapter 4.9 and 4.13 of this document there are no airports in the vicinity of the Project site except helipads located 1.7 miles away where landings are infrequent. This impact is considered a less than significant impact.

- Impact TRANS-4: Implementation of the proposed project (General Plan) would not substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment) subject to the design and safety standards in Newark Municipal Code, the State Building Code, and the State-referenced provisions of the International Fire Code and the implementation of the General Plan goals, policies and actions, including Policies T-1.6, T-2.7, T-2.8, T-5.11, and Action T-1.B This impact is considered a less than significant impact.

- Impact TRANS-5: Implementation of the proposed project (General Plan) would not result in inadequate emergency access subject to the subject to the design and emergency standards specified in the Newark Municipal Code, the State Building Code, and the State-referenced provisions of the International Fire Code and the implementation of General Plan policies and actions intended to ensure adequate emergency access and efficient circulation, including Policies T-5.1 and T-5.9, and Action T-1.B. This impact is considered a less than significant impact.

- Impact TRANS 6: Implementation of the proposed project (General Plan) would not conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities because of the following:
  - City of Newark has adopted a Complete Streets Policy that is consistent with California AB 1358, and requires that transportation improvements in Newark be planned, funded, designed, constructed, operated, and maintained to provide safe mobility for all users appropriate to the function and context of the facility. The Complete Streets Policy is supported by General Plan Goal T-1, Policies T-1.1, T-1.3, T-1.6, and Actions T-1.B to T-I.D.
  - The General Plan is consistent with the Newark Transportation System Management Ordinance, adopted to manage employment-related travel demand supported by Policy T-4.6.
  - The City's ongoing efforts at preparation of a Pedestrian and Bicycle Master Plan for a system of bikeways and support facilities within Newark that will also establish design standards for bicycle facilities, as well as education and safety programs. The General Plan goals, policies

and actions that support the development of the City's Pedestrian and Bicycle Master Plan are as follows: Goal T-2, Policies T-2.1 to T-2.13, and Actions T-2.A to T-2.F, T-2.H to T-2.J.

This impact is considered a less than significant impact.

- Impact TRANS 7: Implementation of the proposed project (General Plan), in combination with past, present, and reasonably foreseeable projects, would not result in additional cumulatively considerable impacts because cumulative impacts would be the same as impacts specific to the proposed project that would be addressed locally through specific road improvements, as well as through implementation of the goals, policies, and actions of the General Plan that seek to reduce existing vehicle trips, minimize the addition of new vehicle trips, and lower per capita VMT. This is a less than cumulatively considerable impact.

Level of Service to Vehicle Miles Traveled

Level of service (LOS) has historically been used as a standard measure of traffic service within the City of Newark. Pursuant to SB 743, as of July 1, 2020, lead agencies are required to evaluate transportation impacts of a project using a Vehicle Miles Traveled (VMT) metric, which focuses on balancing the needs of congestion management with statewide goals related to infill development, promotion of public health through increased active mobility facilitated by closer proximity to alternative travel modes and reduction of greenhouse gas emissions.

In December 2018, the California Governor's Office of Planning and Research (OPR) published the Technical Advisory on Evaluating Transportation Impacts in CEQA, which provides recommendations for evaluating a project's transportation impact using a VMT metric, thresholds of significance, and mitigation measures. Pursuant to Government Code Section 15064.3(b), lead agencies have discretion to select the most appropriate methodology for evaluating a project's VMT impacts. To date, June 2023, the City of Newark has not adopted VMT thresholds or guidelines. In the absence of locally adopted thresholds at the time of review of the proposed Project, the City of Newark relies upon recommendations set forth in the Governor's Office of Planning and Research (OPR)'s Technical Advisory. The Technical Advisory provides qualitative thresholds for which projects are considered to have characteristics that will not result in significant VMT impacts and are therefore not required to conduct transportation analysis for VMT.

Vehicle Miles Traveled (VMT) Screening Analysis

SB 743 established a change in the metric to be applied for determining traffic impacts associated with development projects. The OPR Technical Advisory (December 2018) provides guidance to analysts and local jurisdictions for implementing VMT as a metric for determining the transportation impact for land use projects The OPR guidelines state that for analysis purposes, "VMT" refers to automobile VMT, specifically passenger vehicles and light trucks. Heavy truck traffic is typically excluded. The OPR methodology and implementation guidelines were adopted by the Alameda County Transportation Commission in July 2020.

Project Consistency with the 2013 FEIR

4.17(a) (Conflicts with Plans, Policies, Ordinances) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR determined that the implementation of the General Plan would not conflict with the 2011 Alameda CTC (ACTC) Congestion Management Program (CMP). The CMP is a technical document that describes strategies and procedures to: (1) measure the performance of the county's multimodal transportation system, (2) address roadway congestion and improve the performance of a multimodal system, and (3) connect transportation and land use planning. Pursuant to state legislation, the ACTC is required to update the CMP every two years and the ACTC CMP has been updated subsequent to the adoption of the General Plan in 2013 and certification of the 2013 FEIR. However, the technical elements of a CMP remain the same. The CMP recommends a detailed transportation impact analysis (TIA) for projects generating 100 vehicle-trips or more during the weekday PM peak hour.

The Project TIA, prepared by TJKM, revised April 21, 2023 (**Appendix F-1**) estimated that the Project would generate 562 net daily trips of which 31 (six inbound, 25 outbound) trips would be generated during the a.m. peak hour and 33 (24 inbound, nine outbound) trips would be generated during the p.m. peak hour. Since the project is expected to generate fewer than 100 net PM peak hour trips, a CMP roadway segment analysis was not required. The TIA evaluates the impacts on the transportation infrastructure due to the addition of traffic from the Project at five study intersections during the weekday morning (a.m.) and weekday afternoon (p.m.) peak hours under six study scenarios: No Project and Plus Project scenarios for Existing, Background, and Cumulative Conditions using the Level of Service analysis methodology. While the LOS standards are no longer used for identifying impacts under CEQA, the LOS analysis is still used for determining consistency with adopted agency plans and standards.

Based on the City of Newark standards, a project would result in an adverse impact on traffic conditions at a signalized intersection if for either peak hour:

1. The level of service at the intersection degrades from an acceptable LOS D or better under no project conditions to an unacceptable LOS E or F under project conditions.

2. The level of service at the intersection is an unacceptable LOS under no-project conditions and the addition of project trips causes the average delay at the intersection to increase by four (4) or more seconds.

An adverse impact by the City of Newark standards is said to be satisfactorily mitigated when measures are implemented that would restore intersection level of service to no project conditions or better. Based on the analysis of the study intersection, the TIA recommended the following with respect to the intersection of Cedar Boulevard/Moores Avenue:

1. Installation of crosswalks (including pedestrian signal heads and push buttons) along the newly proposed north leg (the site entrance) and along the west leg of the intersection.

2. Installation of a tactile surface for the existing curb ramp at the northeast corner of the intersection.

These recommendations are proposed as part of the improvements associated with the Project. Additionally, the Project would be consistent with the General Plan Policies T-4.1 and T-4.2 applicable to the Project in that it consists of higher density development serviced by transit with Alameda-Contra Costa Transit (AC Transit) bus stops located in close proximity to the site and accessed via a continuous path of sidewalks and adequate bicycle facilities. AC Transit routes 200, 232, 620, 626 and 628 serve these bus stops and in turn provide regional access with connection to Union City and Fremont BART stations through various residential neighborhoods in north Newark. The Fremont Bart Station is itself located 3.5 miles from the Project site.

Additionally, the California Manual on Uniform Traffic Control Devices (MUTDC) specifies signal warrants to provide guidance on when a traffic signal should be considered at an unsignalized intersection. Only one warrant needs to be satisfied to support the installation of a traffic control signal and additional warrants met would further support the appropriateness of installation. These signal warrants are as follows:

- Warrant 1 – Eight-Hour Vehicular Volume
- Warrant 2 – Four-Hour Vehicular Volume
- Warrant 3 – Peak-Hour Vehicular Volume
- Warrant 4 – Pedestrian Volume
- Warrant 5 – School Crossing Volume
- Warrant 7 – Crash Experience

These warrants were evaluated by TJKM in the "Cedar/Smith Signal Warrant and Fair Share Assessment" (**Appendix F-2**) to ascertain whether the Cedar Boulevard/Smith Avenue intersection would require signalization. According to the analysis, signalization at this intersection should be considered because the peak-hour warrant is met. As a result, the City's Department of Public Works has placed a condition of approval on the project for compliance with the MUTDC provisions that is reproduced below as COA TRAN-1

The City has also adopted a "Pedestrian and Bicycle Master Plan", which was adopted on February 23, 2017, and comprehensively addresses the City's biking and walking environment in the years to come. The Project would be served by existing bicycle facilities that include Class II bike lanes on Cedar Boulevard between Balentine Drive and Central Avenue and Class III bike lanes on Cedar Boulevard between Balentine Drive and Stevenson Boulevard. Other bike lanes in the Project vicinity include Class III bike lanes on Smith Avenue between Cedar Boulevard and Cherry Street, and Class II bike lanes along Mowry and Central Avenues and Cherry Street that connect the Project site to the larger area in Newark. As indicated in **Appendix F-1**, the Project would not conflict with or disrupt existing bicycle or pedestrian circulation nor would it be inconsistent with the City's Pedestrian and Bicycle Master Plan. The Project would also not disrupt transit facilities because the additional trips generated by the Project would be served by existing transit services operating in the area and there would be adequate sidewalks and bicycle facilities to access the transit stop from the Project site.

Therefore, the Project will not introduce new or more severe impacts due to a conflict with policies related to vehicular level of service, pedestrian, bicycle and transit services, beyond those identified in the 2013 FEIR.

4.17(b) (Conflict with 15064.3(b) VMT) No Substantial Change Relative to the 2013 FEIR: Following adoption of the General Plan and certification of the 2013 FEIR, SB 743 went into effect. In the absence of locally adopted VMT thresholds, the City of Newark is relying upon the ACTC guidelines for VMT analysis drawn from the Technical Advisory for evaluating VMT issued by the OPR. A VMT Screening Analysis was completed for the Project (**Appendix F-1**) based on the ACTC guidelines. As indicated in **Appendix F-3**, the ACTC guidelines include a screening process that describes five scenarios in which a project would be exempted from a VMT analysis requirement: 1) projects exempt from CEQA analysis, 2) small projects, 3) local serving projects, 4) projects in transit priority areas, and 5) projects in low VMT areas. ACTC defines a low VMT area as a city or unincorporated portion within one of the ACTC subregions where home-based VMT per resident is at least 15 percent below the countywide VMT or where the commute VMT per employee is at least 15 percent below the regional average. Therefore, under ACTC guidelines, a residential project would have a significant impact on VMT if it would generate residential VMT per capita that is higher than 85 percent of the South Alameda County average. The ACTC model includes traffic analysis zones (TAZ) covering geographic areas throughout Alameda County.

Based on the analysis included in **Appendix F-3**, Traffic Analysis Zone (TAZ) No. 934 in which the Project would be located has a baseline average residential VMT of 23.24 miles per capita while the Project VMT would be 18.43 miles per capita, which is less than the screening threshold of 19.21 miles per capita. Therefore, the proposed Project would be expected to result in a less-than-significant VMT impact.

4.17(c) (Geometric Design Feature Hazard) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR determined that there would be a less than significant impact as it relates to hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment), subject to design and construction of the transportation and circulation improvements consistent with local, regional, and federal standards and implementation of General Plan policies identified under Impact TRANS-4 above.

Access to the Project would be provided in generally the same location as currently existing via a two-way driveway at the north leg of the Cedar Boulevard and Moores Avenue intersection. As shown on the Site Plan (**Appendix G**), the internal vehicular circulation network on the Project site would consist of a 24 foot wide street in a general east to west direction that would serve as the spine for 24 foot wide streets in a general north-south direction that would provide access to the residences. The former roadway would turn toward Cedar Boulevard at the southeastern property boundary to provide emergency access at the southwestern corner of the site from Cedar Boulevard. Internal pedestrian pathways would be provided along the rear property boundary, along the driveway and between the rows of buildings that would connect to the sidewalk

along Cedar Boulevard to the front of the Project site. The Project also proposes off-site transportation related improvements that are described in Chapter 2.3 of this document and are reiterated below:

- Widening of Cedar Boulevard on its northeast side along the Project site frontage to accommodate a 12-foot travel lane, an 11-foot travel lane, a 2-foot bike buffer, and a 5-foot bike lane with a four-to six-foot wide parkway strip behind the curb and 6-foot wide separated meandering sidewalk included in the street section.

- Extension of the existing Cedar Boulevard landscape median island toward the north to create a dedicated left turn pocket at the Cedar Boulevard-Moores Avenue intersection.

- Relocation behind the new curb line of existing utilities including streetlights, fire hydrants, water meters, joint trench boxes as well as the existing storm drainage inlet located at the proposed Project's entrance.

- Relocation behind the new curb line of existing traffic signal heads and pole in the southeast quadrant of the Cedar Boulevard-Moores Avenue intersection.

- New directional curb ramps at the Project entrance and new crosswalks on the eastern and northern legs of the Cedar Boulevard-Moores Avenue intersection.

- Restriping of crosswalk on the southern leg of the intersection to match the new directional curb ramp locations and pedestrian push button location and in the northeastern half of Cedar Boulevard to match the proposed lane widths.

- Installation of a new Cedar Boulevard landscape median north of Moores Avenue intersection to create a dedicated left turn pocket into the project entrance. The landscape median will connect to the new landscape median that will be constructed with the adjacent project.

- A traffic signal and crosswalk improvements at the Cedar Boulevard and Smith Avenue intersection, in accordance with condition of approval (COA) TRAN-1. Traffic signal plans shall be prepared, reviewed, and approved as part of the Project's improvement plans. The adjacent residential development to the west of the Project site is similarly conditioned to provide the traffic signal improvements at Cedar Boulevard and Smith Avenue. If, at the time of final map approval, the applicant of the adjacent residential development has already provided guarantee(s) or other appropriate improvement security for the traffic signal, the Project will not be required to install the traffic signal.

Proposed improvements associated with the Project would not present geometric design feature hazards associated with the existing and proposed improvements and all of the above improvements have been reviewed by the City's Public Works Department and accepted for compliance with the applicable regulations. Additionally, these improvements are consistent with the applicable General Plan policies in that they avoid vehicular and bicycle/pedestrian conflicts to allow for safe bicycle/pedestrian circulation, and are compliant with the City's street standards. Therefore, the Project will not result in new or more severe impacts beyond those analyzed in the 2013 FEIR by way of introducing a hazardous design feature.

4.17(d) (Emergency Access) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR concluded that impacts related to emergency access would be less than significant subject to design and construction of the transportation and circulation improvements consistent with local, regional, and federal standards and implementation of General Plan policies identified under Impact TRANS-5 above. The Project's circulation plan has been reviewed and meets all requirements of the Alameda County Fire Department and City Public Works Department. The Project's internal circulation was determined to be adequate, including sufficient street widths and drive aisles to allow for fire truck access to the proposed Project. During construction activities, temporary lane closures on Cedar Boulevard and nearby roads may occur during frontage improvements and utility work that will be coordinated with the Alameda County Fire Department, City Police Department, and emergency responders to ensure that through access is maintained and adequate response times are achievable. Given these factors, the Project's emergency access is in accordance with the applicable General Plan policies and actions. Therefore, emergency vehicle access would be adequate under the proposed Project and there would

be no new or more severe impacts related to emergency access as a result of Project implementation relative to the 2013 FEIR.

Conclusion and Environmental Conditions of Approval

The Project would not result in any new or more severe impacts to traffic and circulation including transportation relative to what was identified the 2013 FEIR. With the conditions of approval specified below, the Project would be generally consistent with the General Plan:

COA TRAN-1: The applicant shall dedicate right-of-way and install complete street improvements for Cedar Boulevard as shown on the Vesting Tentative Map exhibits and as described below:

Cedar Boulevard

The applicant shall install a traffic signal at the intersection of Cedar Boulevard and Smith Avenue. Traffic Signal plans shall be prepared, reviewed, and approved as part of the improvement plans. The applicant shall submit complete traffic signal plans, inclusive of a pole schedule with the first submittal of the improvement plan set. The applicant shall identify long lead items. City will endeavor to prioritize the review and approval of the long lead items. Within 45 days of City approval of the long lead items, the applicant shall order or otherwise contract for the delivery and installation of the items and submit to the City a written confirmation of contract or order invoice. The applicant shall in good faith effort have the traffic signal operational prior to issuance of the first Certificate of Occupancy for any residential unit. For the purposes of clarity, this condition is not intended to restrict the proposed model homes.

The adjacent residential development to the west of this project is similarly conditioned to provide the traffic signal improvements at Cedar Boulevard and Smith Avenue. If, at the time of final map approval, the other developer has already provided guarantee(s) or other appropriate improvement security for the traffic signal, the project will not be required to install the traffic signal, the project will not be eligible for any traffic impact fee (TIF) reimbursement and the normal traffic impact fees will need to be paid during Building Permit issuance.

If the traffic signal is not operational prior to issuance of the first Certificate of Occupancy for any residential unit due to manufacturing or delivery delays of the long lead items for either developer, the applicant and the City Engineer shall discuss an alternative option to implement until the traffic signal is operation. The alternative option is subject to approval by the City Engineer. All costs to fund the alternative option shall be funded by the applicant.

4.18. TRIBAL CULTURAL RESOURCES

Would the project:	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of	☐	☐	☐	☒

historical resources as defined in Public Resources Code section 5020.1(k), or				
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☐	☐	☒

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013; Historic Resource Evaluation, prepared by Diana J. Painter, Painter Preservation, November 21, 2022, and AB 52 Notification issued by the City of Newark February 8, 2023.

According to Public Resources Code (PRC) Section 21074, tribal cultural resources are defined as follows:

1. Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either of the following:
    a. Included or determined to be eligible for inclusion in the California Register of Historical Resources (CRHR); or
    b. Included in a local register of historical resources as defined in PRC Section 5020.1(k).

2. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in PRC Section 5024.1(c). In applying the criteria set forth in PRC Section 5024.1(c), the lead agency shall consider the significance of the resource to a California Native American tribe.

3. A cultural landscape that meets the criteria of PRC Section 21074(a) to the extent that the landscape is geographically defined in terms of the size and scope of the landscape.

4. A historical resource described in PRC Section 21084.1, a unique archaeological resource as defined in PRC Section 21083.2(g), or a "non-unique archaeological resource" as defined in PRC Section 21083.2(h), if it conforms with the criteria of PRC Section 21074(a).

In accordance with PRC Section 21080.3.1(d), the City of Newark provided written formal notification on February 8, 2023, via mail and email to the tribes identified by the Native American Heritage Commission (NAHC). The notice included a brief description of the proposed Project and its location, the City of Newark's contact information, and a notification that the tribes have 30 days to request consultation. The tribes that were notified are listed below:

- Amah MutsunTribal Band of Mission San Juan Bautista
- Costanoan Rumsen Carmel Tribe
- Indian Canyon Mutsun Band of Costanoan
- Muwekma Ohlone Indian Tribe of the SF Bay Area
- North Valley Yokuts Tribe
- The Ohlone Indian Tribe
- Wuksache Indian Tribe/Eshom Valley Band

- The Confederated Villages of Lisjan
- Tamien Nation

One response from the Confederated Villages of Lisjan Nation was received on February 9, 2023, with a request for additional information regarding the Project site that was provided to the Tribal representative on February 10, 2023. To date, June 2023, the City of Newark has not received any further communication from the above referenced tribe and has not received responses requesting consultation from any other tribes contacted.

General Plan EIR Findings

As discussed above in Section 4.5, the 2013 FEIR concluded that the implementation of the General Plan would result in significant and unavoidable impacts related to cultural resources, which may include tribal cultural resources, in the Southwest Newark Residential and Recreational Focus Area. The Project is not included in the Southwest Newark Residential and Recreational Focus Area. In other locations in the Plan Area, General Plan Policy LU-5.5 would render these impacts to tribal resources less than significant.

Project Consistency with the 2013 FEIR

4.18(a) (Listed or Eligible for Listing) No Change Relative to the 2013 FEIR: The 2013 FEIR identifies the Dumbarton TOD Focus Area and the Southwest Newark Residential and Recreational Focus Area as sensitive for potential archaeological resources. The Project site is not located within any of these areas, has been previously graded, and is almost entirely paved. Further, the Project site is developed with industrial/commercial buildings that are not historic resources as determined and described in **Appendix B**. It is not identified in the NAHC Sacred Lands File (SLF), based on a record search of the SLF. Additionally, no tribes notified based on the list provided by the NAHC responded with information regarding potential tribal resources on the Project site and vicinity. Therefore, the Project would not result in new or more severe impacts relative to the 2013 FEIR as it relates to a cultural resource of value to a tribe that is listed or eligible for listing in the CRHR, or in a local register of historical resources as defined in PRC Section 5020.1(k).

4.18(b) (Significant Resources) No Change Relative to the 2013 FEIR: As described above and consistent with General Plan Goal LU-5.5, the City of Newark provided notification of the Project to tribes and tribal organizations on February 8, 2023, consistent with AB 52. One response from the Confederated Villages of Lisjan Nation received on February 9, 2023, requested additional information regarding the Project site that was provided to the Tribal representative on February 10, 2023. To date, June 2023, the City of Newark has not received any further communication from the above referenced tribe and has not received responses requesting consultation from any other tribes contacted. As such, no requests to enter into consultation were received on the Project. Further, COA CUL-1 imposed on the project and set forth in Chapter 4.5 provides protection for the protection of buried cultural resources, including tribal cultural resources, in the event of discovery. Therefore, the proposed Project would not result in new or more severe impacts relative to the 2013 FEIR.

Conclusion and Environmental Condition of Approval

The Project would not result in any new or more severe impacts to archaeological resource, including tribal cultural resources, relative to what was identified in the 2013 FEIR. The Project has complied with Mitigation Measure 4.4-1 from the 2010 Housing Element EIR as identified in the 2013 EIR with COA CUl-1 as described in Chapter 4.5 of this document and imposed on the Project to ensure that the Project does not result in impacts to buried archaeological resources on site, if present.

4.19.UTILITIES AND SERVICE SYSTEMS

Would the project:	New Significant	More Severe	No Substantial	No Change Relative to

	Impact Not Identified in 2013 FEIR	Impact Relative to 2013 FEIR	Change Relative to 2013 FEIR	the 2013 FEIR
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☒	☐
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☒	☐
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☒	☐

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013; Tract 8665 Vesting Tentative Map for Condominium Purposes, Sheets 6.0 Utility Plan, dated June 2, 2023.

General Plan EIR Findings

The 2013 FEIR evaluated potential impacts to Utilities and Service Systems in Chapter 4.14 and determined the following:

Water Supplies/Infrastructure

- Impact UTIL-1: Implementation of the proposed project (General Plan) would increase water demand, however, sufficient water supplies are available to serve the project from existing entitlements and resources. Further, the following General Plan goal, policies and actions would ensure that new development under the proposed project contribute to reducing water demands in the service area: Goal CS-3, Policies CS-3.2, CS-3.3, CS-3.9, CSF-5.1, CSF-5.3, CSF-5.6 to CSF-5.8, and Actions CS-3.B, CSF-5.A, CSF-5.B. This impact will be considered to be a less than significant impact.

- Impact UTIL-2: Implementation of the proposed project (General Plan) would not require or result in the construction of new water facilities or expansion of existing facilities, the construction of which would cause significant environmental effects because sufficient water supplies are available to serve the project from existing entitlements and resources as described in Impact UTIL-1. Further, General Plan Policies CSF-5.7 and CSF-5.8 and Action CSF-5.B would ensure that impacts to water facilities would be adequately addressed. This impact is considered to be a less than significant impact.

- Impact UTIL-3: Implementation of the proposed project (General Plan), in combination with past, present, and reasonably foreseeable development, would result in less than significant cumulative impacts with respect to water supply because cumulative water demands would neither exceed

planned levels of supply nor require building new water treatment facilities or expanding existing facilities beyond what is currently planned in the ACWD's Capital Improvements Plan (CIP). Additionally, future development would be required to pay development fees, which would offset the costs of system maintenance and capital upgrades to support the new development in the ACWD service area.

Wastewater

- Impact UTIL-4: Implementation of the proposed project (General Plan) would not exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board (SFRWQCB). This impact is considered a less than significant impact.

- Impact UTIL-5: Implementation of the proposed project (General Plan), would not require or result in the construction of new wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects subject to applicable regulations of the Union Sanitary District (USD) and City of Newark, including their development review process and fees, as well as the implementation of General Plan policies and actions, including Policies CSF-5.2, CSF-5.3, CSF-5.7, CSF-5.8, and Action CSF-5.C. This impact is considered to be a less than significant impact.

- Impact UTIL-6: Implementation of the proposed project (General Plan), would not result in a determination by the wastewater treatment provider which serves or may serve the project that it does not have adequate capacity to serve the project's projected demand in addition to the provider's existing commitments. This is because future demands from the implementation of the General Plan would not exceed the capacity of Newark's wastewater treatment plant, the Alvarado Wastewater Treatment Plant (AWWTP), and the implementation of policies and actions identified under Impact UTIL-5 would address potential impacts to USD collection system. Additionally, future projects pursuant to the General Plan would be subject to the City of Newark and USD Development Review Process, USD Capacity Fees, and NMC Chapter 3.24 Development Impact Fees. This impact is considered a less than significant impact.

- Impact UTIL-7: Implementation of the proposed project (General Plan), in combination with past, present, and reasonably foreseeable development, would not result in significant cumulative impacts with respect to wastewater because the increase in volume of wastewater as a result of the project would not be cumulatively considerable, cumulative demand would not substantially impact the existing or planned capacity of the wastewater treatment system, and the construction of new wastewater treatment facilities would not be necessary. Further, implementation of the following General Plan policies would ensure provision of adequate wastewater facilities: Policies CSF-5.2, CSF-5.7 and CSF-5.8. This is less than cumulatively considerable impact.

Stormwater

- Impact UTIL-8: Implementation of the proposed project (General Plan) would not require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects subject to compliance with the C.3 provisions of the Alameda County Clean Water Program. Further, the following General Plan policies and actions would reduce demand on the storm drainage system: Policies CSF-5.4 to CSF-5.8, CS-6.4, CS-6.5, and Actions CSF-5.D, CSF-5.E, CS-3.G and CS-3.H.

- Impact UTIL-9: Implementation of the proposed project (General Plan), in combination with past, present, and reasonably foreseeable development, would not result in significant cumulative impacts with respect to stormwater facilities because implementation of the regulations and policies identified above would not substantially increase either the volume or the velocity of stormwater flowing into the storm sewer system that would be upgraded and expanded as necessary to support development in Newark. This is a less than cumulatively considerable impact.

Solid Waste

- Impact UTIL-10: Implementation of the proposed project (General Plan) would be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs. Further, the General Plan contains goals and policies intended to reduce waste generation and the demand for landfill capacity. This impact is considered to be a less than significant impact.

- Impact UTIL-11: The proposed project (General Plan) would comply with federal, State, and local statues and regulations related to solid waste with implementation of General Plan Actions CS-8.A, CS-8.C, CS-8.D, and CS-8.F. This impact is considered to be a less than significant impact.

- Impact UTIL-12: Implementation of the proposed project (General Plan), in combination with past, present, and reasonably foreseeable development, would not result in significant cumulative impacts with respect to solid waste because increase in solid waste generation would be minimal due to waste source reduction and diversion programs that include recycling, composting, mandatory construction and demolition (C&D) debris recycling, and mandatory commercial recycling.

Project Consistency with the 2013 FEIR

4.19(a) (Relocation/Expansion of Utilities) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR concluded that the implementation of the General Plan would not significantly increase demands for utilities and services systems including water, wastewater, storm drain, and solid waste and impacts related to relocation/expansion of utilities would be less than significant. The subject Project is generally consistent with the General Plan and will not necessitate the expansion or relocation of existing utilities. The proposed Project would introduce 76 residential units (townhomes) that would generate demand for utilities and services. The site is served by existing utilities, including water, wastewater, and storm drain infrastructure which will service the proposed development on the Project site. The proposed development would include installation of water, sanitary sewer and storm drain lines that will connect to the existing infrastructure, respectively. However, the demand for utilities and service systems generated by the Project is anticipated by the 2013 FEIR and does not require the relocation or substantial expansion of infrastructure. The Project's stormwater management system has been designed and would be implemented in accordance with the C.3 provisions of the Alameda County Clean Water Program. Therefore, the Project's impacts related to the relocation, construction, or expansion of utilities will not result in new or more severe impacts relative to the 2013 FEIR.

4.19(b) (Sufficient Water Supplies) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR concluded that the implementation of the General Plan would result in less than significant impact to water supplies because sufficient water supplies during normal, dry, and multiple dry years, are available to serve development pursuant to the General Plan from existing entitlements and resources Additionally, applicable General Plan goals, policies and actions as identified under Impact UTIL-1 would serve to reduce water demand generation by development pursuant to the General Plan.

The Project proposes residential development within the residential capacity analyzed in the 2013 FEIR. The Project would include sustainability features including low flow fixtures and drought tolerant landscaping that would serve to reduce the Project's water demand. Additionally, a "Will Serve" letter will be required from the water purveyor, the Alameda County Water District. Therefore, impacts related to water supplies would not result in new or more severe impacts relative to those identified in the 2013 FEIR.

4.19(c) (Wastewater Capacity) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR concluded that implementation of the General Plan would result in less than significant impact related to waste water treatment capacity. The Project is generally consistent with the General Plan and the increase in wastewater generated by the Project is within the flow capacity analyzed as part of the 2013 FEIR. Furthermore, the Project is subject to USD fees and City of Newark Development Impact Fees, that would be used to fund maintenance and expansion of wastewater conveyance systems and treatment facilities, as required. As such, the proposed Project will not cause or exceed wastewater treatment requirements set forth by the SFRWQCB, nor will the Project necessitate the expansion or construction of wastewater conveyance

or treatment facilities. Therefore, impacts to wastewater capacity would not result in new or more severe impacts relative to those identified in the 2013 FEIR.

4.19(d,e) (Solid Waste Generation/Compliance with Solid Waste Management) No Substantial Change Relative to the 2013 FEIR: The 2013 FEIR concluded that implementation of the General Plan would have a less than significant impact related to solid waste because future developments under the Plan would be served by a landfill with sufficient permitted capacity to accommodate their solid waste disposal needs. Further, implementation of the applicable General Plan goals and policies would reduce waste generation and the demand for landfill capacity.

The Project would contribute to the generation of solid waste within the General Plan area, but the Project applicant would be required to adhere to all regulations governing the disposal of solid waste, solid waste management and reduction goals. A "Will Serve" letter for the Project has been provided by the Republic Services that provides solid waste collection services for recycling and waste disposal. Therefore, solid waste related impacts from the Project construction and operation would not result in new or more severe impacts relative to those identified in the 2013 FEIR.

Conclusion and Environmental Conditions of Approval

The Project would not result in any new or more severe impacts to utilities and service systems relative to what was identified in the 2013 FEIR with the implementation of the following condition of approval:

COA UTIL-1: Prior to the issuance of a building permit, the applicant shall pay the applicable impact fees, including, but not limited to, the Housing Impact Fee and Transportation Impact Fee, in the amount in effect at the time. If the applicant is eligible for a Transportation Impact Fee credit as determined by the City Engineer, the Transportation Impact Fee will be adjusted accordingly as determined by the City Engineer.

4.20.WILDFIRE

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:	**New Significant Impact Not Identified in 2013 FEIR**	**More Severe Impact Relative to 2013 FEIR**	**No Substantial Change Relative to 2013 FEIR**	**No Change Relative to the 2013 FEIR**
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☐	☒
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☐	☒
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	☒

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013, and State Responsibility Fire Hazard Severity Zone Maps, Office of the State Fire Marshall.

General Plan EIR Findings

The 2013 FEIR evaluated potential impacts related to Wildfires in Chapter 4.9, Hazards and Hazardous Materials and determined the following:

- Impact HAZ-8: As also discussed under Chapter 4.9 of this document, implementation of the proposed project (General Plan) would not expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands because the Plan Area is surrounded on all sides by land within the limits of the City of Fremont and is not designated as having high, very high, or extreme wildland fire threat to people, as determined by CAL FIRE's Wildlife Urban Interface Fire Threat data. Future development in the Plan Area would be constructed pursuant to the California Building Code, California Fire Code, and the City of Newark Municipal Code and the General Plan Goal EH-1 and Policies EH-1.1 and EH-1.2 would further ensure minimization of risks from wildland fires. This impact is considered to be less than significant.

Project Consistency with the 2013 FEIR

4.20(a-d) (Impair Emergency Plans, Exacerbate Wildfire Risk Exacerbation, Infrastructure Contributing to Wildfire Risk, Exposure to Wildfire-Related Risks – if located in or near state responsibility areas or lands classified as very high fire hazard severity zones) No Change Relative to the 2013 FEIR: As indicated in Chapter 4.9 of this document, the Project site and lands surrounding and in the vicinity of the Project site are not in an area categorized by CAL FIRE as any of the Fire Hazard Severity Zones, including very High Fire Hazard Severity Zones (VFHSZ). Therefore, the Project will not result in a new significant impact or substantially increase the severity of a previously identified significant impact relative to the 2013 FEIR.

Conclusion

The Project and surrounding land are not located in or near state responsibility areas or lands classified as very high fire hazard severity zones. Therefore, the Project would not result in any new or more severe impacts due to wildfire risk relative to what was identified the 2013 FEIR.

4.21. MANDATORY FINDINGS OF SIGNIFICANCE

	New Significant Impact Not Identified in 2013 FEIR	More Severe Impact Relative to 2013 FEIR	No Substantial Change Relative to 2013 FEIR	No Change Relative to the 2013 FEIR
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☐	☐	☒
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other	☐	☐	☐	☒

current projects, and the effects of probable future projects)?				
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☐	☐	☒

Sources: City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013

General Plan EIR Findings

As presented above in Sections 4.1 through 4.20, the 2013 FEIR included an evaluation of cumulative impacts associated with implementation of the General Plan.

Project Consistency with the 2013 FEIR

4.21(a) (Degrade the Environment) No Change Relative to the 2013 FEIR: The Project is located within the General Plan area boundary and potential impacts associated with its development have been anticipated by the City's General Plan and analyzed in the 2013 FEIR. The Project is consistent with the General Plan Land Use designation, applicable goals, policies, and programs and is required to comply with applicable state, local and federal regulations.

As described in this document, the Project has the potential to result in environmental impacts primarily associated with temporary construction activities. Environmental conditions of approval as identified would avoid, reduce, or offset impacts consistent with the 2013 FEIR. With the implementation of conditions of approval set forth in this document with respect to Air Quality, Biological Resources and Cultural Resources, as well as adherence to the City's uniformly applied development standards, the Project's potential to degrade the quality of the environment would be substantially the same as that analyzed in the 2013 FEIR. Therefore, the Project will not degrade the quality of the environment, reduce habitat, or affect cultural resources beyond what has already been disclosed and analyzed in the certified 2013 FEIR.

4.21(b) (Cumulatively Affect the Environment) No Change Relative to the 2013 FEIR: The CEQA Guidelines define cumulative impacts as "two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts. The individual effects may be changes resulting from a single project or an increase in environmental impacts. The cumulative impact from several projects is the change in the environment which results from the incremental impact of the proposed project when added to other closely related past, present, and reasonably foreseeable probable future projects. Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time" (Guidelines, Section 15355(a)(b)).

The analysis of cumulative impacts for each environmental factor can employ one of two methods to establish the effects of other past, current, and probable future projects. A lead agency may select a list of projects, including those outside the control of the agency, or alternatively, a summary of projections. These projections may be from an adopted general plan or related planning document or from a prior environmental document that has been adopted or certified; these documents may describe or evaluate the regional or area-wide conditions contributing to the cumulative impact.

Cumulative impacts of the implementation of the General Plan were evaluated in the 2013 FEIR and found to be less than significant as discussed in Chapter 4.1 to 4.20 of this document. Development of the Project is consistent with the General Plan and the Project is subject to environmental conditions of approval as well as uniformly applied development standards. Implementation of identified conditions of approval and uniformly applied development standards would ensure that development of the proposed Project would not result in cumulatively considerable environmental impacts beyond those analyzed in the 2013 FEIR.

4.21(c) (Substantial Adverse Effect on Humans) No Substantial Change Relative to the 2013 FEIR: The Project would not result in any new or more substantial adverse effects on humans relative to the 2013 FEIR findings for the General Plan because the Project is located in the Plan area and consistent with the General

Plan. With implementation of the identified environmental conditions of approval, the Project will not result in new or more severe impacts beyond those identified in the 2013 FEIR that would directly or indirectly cause substantial adverse effect on human beings.

Conclusion

The Project would not result in any new or more severe impacts relative to what was identified the 2013 FEIR subject to identified environmental conditions of approval and standard regulatory requirements. No environmental conditions of approval related to mandatory findings of significance are required.

5. REFERENCE DOCUMENTS

The following reference documents are hereby incorporated by reference and are available for review during normal business hours at the City of Newark Community Development Department, 37101 Newark Boulevard, Newark, CA 94560, in the Community Development Department.

5.1. TECHNICAL APPENDICES

A. Air Quality and Greenhouse Gas Analysis, prepared by LSA, November 7, 2022.

B. Historic Resource Evaluation, prepared by Diana J. Painter, Painter Preservation, November 21, 2022.

C-1.Geotechnical Exploration, prepared by ENGEO, January 31, 2023

C-2. Geotechnical Peer Review, prepared by Cotton, Shires and Associates, Inc., April 10, 2023

C-3. Responses to Geotechnical Review Comments, prepared by ENGEO, June 5, 2023

C-4. Supplemental Geotechnical Peer Review, prepared by Cotton, Shires and Associates, Inc, June 14, 2023.

D-1. Phase I Environmental Site Assessment Report, prepared by ENGEO Inc., May 13, 2022;

D-2. Phase II Environmental Site Assessment Report, prepared by ENGEO Inc., October 21, 2022.

E-1. Environmental Review of Construction Noise and Vibration, prepared by Salter, May 2, 2023.

E-2. Environmental Noise Assessment, prepared by Salter, November 11, 2022,

F-1. Traffic Impact Study Report, prepared by TJKM, revised April 21, 2023.

F-2. Cedar/Smith Signal Warrant and Fair Share Assessment, prepared by TJKM, May 2023

F-3. Cedar Townhomes VMT Analysis Memo, prepared by TJKM, October 14, 2022.

5.2. OTHER DOCUMENTS REFERENCED

1. City of Newark General Plan, 2013 and General Plan Tune Up Draft EIR and Final EIR, 2013;
2. City Council Resolution 10,415. City of Newark. November 12, 2013.
3. State Responsibility Fire Hazard Severity Zone Maps, Office of the State Fire Marshall, accessed June 2023
4. Preliminary Stormwater Control Plan, prepared by Carlson, Barbee & Gibson, Inc., June 2, 2023;
5. FEMA FIRMette maps, FEMA, accessed June 2023.
6. Tsunami Hazard Area Map, Department of Conservation, accessed June 2023.
7. Sea Level Rise Viewer, National Oceanic and Atmospheric Administration (NOAA) Office of Coastal Management, accessed June 2023.
8. Architecture Plans, prepared by WHA, June, 2023.
9. Vesting Tentative Map For Condominium Purpose, prepared by cbg civil engineers, June, 2023.
10. Cedar Boulevard Landscape Plans, prepared by Gates+Associates, June 2023.

6. ENVIRONMENTAL CONDITIONS OF APPROVAL

The following conditions of approval have been identified through this analysis and ensure implementation of applicable mitigation measures and policies set forth in the General Plan and its EIR. The 38600 Cedar Boulevard Residential Development Project applicant shall implement all conditions of approval as part of the Project.

AES-1: All exterior lighting shall comply with all applicable regulations in NMC §17.17.060 (Lighting and Illumination) and NMC Chapter 17.23 (Parking and Loading). All exterior lighting shall be directed on-site so as not to create glare off-site, as required by the Community Development Director.

AQ-1: Consistent with the Bay Area Air Quality Management District (BAAQMD) Basic Construction Mitigation Measures, the following controls are required to be included as specifications for the proposed project and implemented at the construction site to control for fugitive dust and exhaust as follows:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
2. All haul trucks transporting soil, sand, or other loose material off site shall be covered.
3. All visible mud or dirt tracked-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
4. All vehicle speeds on unpaved roads shall be limited to 15 miles per hour.
5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible.
6. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
7. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California Airborne Toxics Control Measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
8. All construction equipment shall be maintained and properly tuned in accordance with manufacturers' specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.
9. A publicly-visible sign shall be posted with the telephone number and person to contact at the City of Newark regarding dust complaints. This person shall respond and take corrective action within 48 hours. The BAAQMD's phone number shall also be visible to ensure compliance with applicable regulations.

AQ-2: During construction of the proposed project, the project contractor shall ensure all off-road diesel-powered construction equipment of 50 horsepower or more used for the project construction at a minimum meets the California Air Resources Board Tier 3 emissions standards with level 3 diesel particulate filters or equivalent.

AQ-3: The following measures shall be required to reduce toxic air contaminants (TACs) and particulate matter indoors to a level sufficient to achieve compliance with BAAQMD health risk thresholds:

1. The project applicant shall provide an HVAC system with a control efficiency sufficient to result in a reduction of a minimum 85 percent of particulates of 10 microns or less, such as Minimum Efficiency Reporting Value (MERV)-9 filters or greater, for indoor air filtration systems. The ventilation system shall be certified to achieve the stated performance effectiveness from indoor areas.
2. The project applicant shall locate all air intakes as far away from Interstate 880 (I-880) as feasible.

3. The project applicant shall disclose to potential occupants of the project that the proximity of the project site to the freeway could result in increased long-term health risks. The disclosure shall indicate the specifications for the installed air filtration system.

BIO-1: To avoid and minimize potential impacts to nesting birds including passerines and raptors, the following measures shall be implemented:

1. Grading or removal of potentially occupied habitat should be conducted outside the nesting season, which occurs between approximately February 1 to August 31.
2. If grading between August 31 and February 1 is infeasible and groundbreaking must occur within the nesting season, a pre-construction nesting bird survey (migratory species, passerines, and raptors) of the potentially occupied habitat (trees, shrubs, grassland) shall be performed by a qualified biologist within 7 days of groundbreaking. If no nesting birds are observed no further action is required and grading shall occur within one week of the survey to prevent "take" of individual birds that could begin nesting after the survey.
3. If active bird nests (either passerine and/or raptor) are observed during the pre-construction survey, a disturbance-free buffer zone shall be established around the occupied habitat until the young have fledged, as determined by a qualified biologist.
4. The radius of the required buffer zone can vary depending on the species, (i.e., 75-100 feet for passerines and 200-500 feet for raptors), with the dimensions of any required buffer zones to be determined by a qualified biologist in consultation with CDFW.
5. To delineate the buffer zone around the occupied habitat, construction fencing shall be placed at the specified radius from the nest within which no machinery or workers shall intrude.
6. Biological monitoring of active nests shall be conducted by a qualified biologist to ensure that nests are not disturbed and that buffers are appropriate, adjusted by a qualified biologist as needed to avoid disturbance.
7. No construction or earth-moving activity shall occur within any established nest protection buffer prior to September 1 unless it is determined by a qualified ornithologist/biologist that the young have fledged (that is, left the nest) and have attained sufficient flight skills to avoid project construction zones, or that the nesting cycle is otherwise completed.

BIO-2: Prior to any tree removal or alteration, the applicant shall obtain a tree removal permit from the City of Newark Public Works Department and implement tree planting requirements in accordance with development review.

CUL-1: During project construction, if historic, archaeological or Native American materials or artifacts are identified, work within 50 foot radius of such find shall cease and the City shall retain the services of a qualified archeologist and/or paleontologist to assess the significance of the find. If such a find is determined to be significant by the archeologist and/or paleontologist, a resource protection plan conforming to CEQA §15064.5 shall be prepared by the archeologist and/or paleontologist and approved by the Community Development Director. The plan may include, but would not be limited to, removal of resources and similar actions. Project work may be resumed in compliance with such a plan. If human remains are encountered, all ground disturbing activities near or in any area potentially overlying adjacent human remains shall cease, the County Coroner shall be contacted immediately, and the provisions of State law carried out.

GEO-1 Prior to or concurrently with the first submittal of the final map and improvement plans, the applicant shall provide specific recommendations to mitigate identified seismic hazards discussed in the City's Geotechnical Consultant's letter dated June 14, 2023. The applicant's Geotechnical Consultant shall submit a letter-report addressing the items identified in the June 14, 2023, letter to the City for review by the City's Geotechnical Consultant. The applicant shall pay for all costs associated with the geotechnical peer review per the City's Master Fee Schedule.

GEO-2 Prior to or concurrently with the first submittal of the final map and improvement plans, the applicant shall provide specific recommendations to mitigate impacts of expansive soils on the site. The applicant's Geotechnical Consultant shall submit a letter-report addressing expansive soils on the site, to the City for review by the City's Geotechnical Consultant. The applicant shall pay for all costs associated with the geotechnical peer review per the City's Master Fee Schedule.

GHG-1: The project shall include and show on the plans a minimum of 10 percent of the parking spaces as electric vehicle (EV) charging stations consistent with current California Green Buildings Standards Code (CALGreen) Tier 2 standards.

HAZ-1: Prior to issuance of any demolition permit, the applicant/project developer shall have a qualified environmental professional complete testing on structures to be removed for the presence of actionable quantities of asbestos materials, lead based paint and other contaminants. These materials shall be remediated by a licensed contractor and disposed of in an appropriately licensed landfill. Necessary permits shall be obtained from the Alameda County Fire Department, Newark Building Inspection Division, the Bay Area Air Quality Management District and other agencies, as applicable. All work shall be performed in accordance with state and federal OSHA standards. Worker safety plans shall be included for all demolition or deconstruction plans.

HAZ-2: The Project applicant shall implement the following actions:

1. Copies of the Phase I ESA shall be filed with the Alameda County Water District, Newark Community Development Department, the Newark Public Works Department and the Hazardous Materials Bureau of the Alameda County Fire Department.
2. Prior to the issuance of the grading permit, the applicant shall prepare a Soil and Water Management Plans (SWMPs) for the Project site as the Phase I ESA identifies actionable levels of soil and/or water contamination on the site. The SWMPs shall be prepared by a state-certified environmental professional and shall include, at minimum, a description of soils to be graded or disturbed as part of the project, detailed soil and water sampling to identify the extent of the contaminants, describe site remediation activities and procedures for removing the contaminants, and location(s) for disposal of contaminated material. The applicant shall obtain necessary permits for implementation of the site remediation and shall also provide evidence to the City of Newark, prior to the issuance of the grading permit, demonstrating that the RECs have been resolved to the satisfaction of the applicable regulatory agencies for future residential land use. Permits and closure letters shall be obtained from appropriate agencies if site remediation is found.
3. Prepare a plan/s to deal with de-watering of the site and safe disposal of contaminated groundwater in the event of groundwater contamination on the site or vicinity. These plans shall be prepared by qualified environmental hazard consultants and approved by the Newark Community Development Director, or their designee, prior to grading permit issuance, and required permits shall be obtained from appropriate agencies for all site investigation and remediation.

HYD-1: Preliminary Stormwater Treatment Plan is approved in concept only. Final approval is subject to the applicant providing, prior to the issuance of the grading permit, the necessary plans, details, and calculations that demonstrate the plan complies with the Municipal Regional Stormwater NPDES Permit (MRP), Order R2-2022-0018, revised July 1, 2022, issued to the City of Newark by the Regional Water Quality Control Board, San Francisco Bay Region.

HYD-2: Prior to issuance of a building permit, the applicant shall prepare a Stormwater Treatment Measures Maintenance Agreement for post-construction water quality. The Agreement shall be reviewed and accepted by the City Engineer prior to Project Construction on the site.

HYD-3: The Project's development, including streets and surface improvements, shall be placed above the 100-year flood elevation as confirmed by the City Engineer.

HYD-4: Prior to final map approval, the applicant shall apply and receive approval for a conditional letter of map revision based on fill (CLOMR- F) from the Federal Emergency Management Agency (FEMA). The CLOMR-F shall be based upon the project grading plan and shall conclude that the structures for human occupancy will be removed from the special flood hazard area (SFHA). Prior to occupancy of any buildings within the SFHA, the developer shall apply and receive approval of a letter of map revision based on fill (LOMR-F) from FEMA. On July 1, 2023, FEMA temporarily suspended the processing of CLOMR-Fs and LOMR-Fs. If, prior to final map approval, the temporary suspension of CLOMR-Fs and LOMR-Fs is still in effect, the CLOMR-F application to FEMA shall be deferred and applied for as soon as the temporary suspension is lifted. If, prior to occupancy, the temporary suspension of CLOMR-Fs and LOMR-Fs is still in effect, the applicant shall provide complete Elevation Certificates demonstrating that the property for occupancy is outside the Special Flood Hazard Area. Prior to tract acceptance, if the temporary suspension of CLOMR-Fs and LOMR-Fs is still in effect, the applicant shall submit the LOMR-F application package to the City or enter into a deferred agreement with the City for preparing and processing the LOMR-F application package once FEMA lifts the suspension. In either options, the cost of the preparation and fees associated with the FEMA LOMR-F application shall be paid for by the applicant.

HYD-5: The applicant shall submit detailed grading and drainage plans for review and approval by the City Engineer and the Alameda County Flood Control and Water Conservation District. These plans must be based upon a City benchmark and need to include pad and finish floor elevations of each proposed structure, proposed on-site property grades, proposed elevations at property line, and sufficient elevations on all adjacent properties to show existing drainage patterns. All on-site pavement shall drain at a minimum of one percent. The applicant shall ensure that all upstream drainage is not blocked and that no ponding is created by this development. Any construction necessary to ensure this shall be the applicant's responsibility.

Hydrology and hydraulic calculations shall be submitted for review and approval by the City Engineer and the Alameda County Flood Control District prior to approval of the final map. The calculations shall show that the City and County freeboard requirements will be satisfied.

NOI-1: The following noise reduction measures will be implemented to minimize the impact of construction noise onto offsite receivers:

1. Construction activity shall be limited to the hours of 7 AM to 7 PM Monday through Friday and 10 AM to 6 PM on Sundays and holidays. Noise from construction activity occurring outside these hours will be limited to the levels outlined in the Newark Municipal Code Section 17.24.10.A.3.
2. The contractor shall require properly maintained mufflers on construction vehicles.
3. To the extent feasible, stationary construction equipment and staging areas shall be located as far as possible from adjacent residences and the motel.
4. The contractor shall implement temporary noise barriers between noisy activities and adjacent residences and the motel.
5. To the extent feasible, construction should proceed from Cedar Boulevard towards Intestate 880, and from south to north, so that constructed buildings will help shield residences from equipment and construction activities.
6. The contractor will designate a “noise disturbance coordinator” who would be responsible for responding to any local complaints about construction noise.
7. Signs will be posted at the construction site to notify the neighborhood of permitted days and hours of activities, and to provide a day-time telephone number for the noise disturbance coordinator.

NOI-2: Mechanical equipment noise as a result of the Project shall be limited to no more than 70 dBA between the hours of 7 a.m. and 9 p.m., and 60 dBA between the hours of 9 p.m. and 7 a.m in accordance with NMC Section 17.24.100.A.2.

NOI-3: Exterior building assemblies shall be sound-rated to reduce environmental noise to the DNL 45 dB criterion indoors. Sound insulation ratings should be for the complete assembly, including glass and frame, and should be based on laboratory test reports of similar sized samples from a National Voluntary Laboratory Accreditation Program (NVLAP) accredited lab. Since windows will need to be closed to meet the interior noise criteria, the mechanical design should meet ventilation requirements with windows in the closed position. The building assemblies shall be reviewed and accepted to meet the aforementioned criteria during the building permit process.

NOI-4: The height of the 18-foot tall retaining wall to the rear of the Project site adjacent to I-880 that would serve as a noise barrier shall be measured with respect to the freeway elevation, or yard elevation, whichever is higher. The barrier shall extend the length of the site and wrap the ends, returning towards Cedar Boulevard and shall be solid from bottom to top with no cracks or gaps and have a minimum surface density of approximately three pounds per square foot to reduce traffic noise levels in Project related outdoor spaces to DNL 65 dB or below. The barrier shall step down along the side property lines from a height of 18 feet to 8 feet, as shown in Figure 2 of the Environmental Noise Assessment, prepared by Salter, November 11, 2022.

NOI-5: Limit the use of the following construction equipment to the following distances from the motel building located toward the south of the Project site.

1. Large bulldozers and loaded trucks to a minimum of 50 feet.
2. Jackhammering to a minimum of 30 feet.
3. vibratory rollers to a minimum of 85 feet.

TRAN-1: The applicant shall dedicate right-of-way and install complete street improvements for Cedar Boulevard as shown on the Vesting Tentative Map exhibits and as described below:

Cedar Boulevard

The applicant shall install a traffic signal at the intersection of Cedar Boulevard and Smith Avenue. Traffic Signal plans shall be prepared, reviewed, and approved as part of the improvement plans. The applicant shall submit complete traffic signal plans, inclusive of a pole schedule with the first submittal of the improvement plan set. The applicant shall identify long lead items. City will endeavor to prioritize the review and approval of the long lead items. Within 45 days of City approval of the long lead items, the applicant shall order or otherwise contract for the delivery and installation of the items and submit to the City a written confirmation of contract or order invoice. The applicant shall in good faith effort have the traffic signal operational prior to issuance of the first Certificate of Occupancy for any residential unit. For the purposes of clarity, this condition is not intended to restrict the proposed model homes.

The adjacent residential development to the west of this project is similarly conditioned to provide the traffic signal improvements at Cedar Boulevard and Smith Avenue. If, at the time of final map approval, the other developer has already provided guarantee(s) or other appropriate improvement security for the traffic signal, the project will not be required to install the traffic signal, the project will not be eligible for any traffic impact fee (TIF) reimbursement and the normal traffic impact fees will need to be paid during Building Permit issuance.

If the traffic signal is not operational prior to issuance of the first Certificate of Occupancy for any residential unit due to manufacturing or delivery delays of the long lead items for either developer, the applicant and the City Engineer shall discuss an alternative option to implement until the traffic signal is operation. The alternative option is subject to approval by the City Engineer. All costs to fund the alternative option shall be funded by the applicant.

UTIL-1: Prior to the issuance of a building permit, the applicant shall pay the applicable impact fees, including, but not limited to, the Housing Impact Fee and Transportation Impact Fee, in the amount in effect at the time. If the applicant is eligible for a Transportation Impact Fee credit as determined by the City Engineer, the Transportation Impact Fee will be adjusted accordingly as determined by the City Engineer.

LSA

CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

MEMORANDUM

DATE: November 7, 2022

TO: Caden Proctor, Waymark Development LLC

FROM: Amy Fischer, Executive Vice President
Cara Carlucci, Associate

SUBJECT: Air Quality and Greenhouse Gas Analysis for the proposed Cedar Townhomes Project at 38600 Cedar Boulevard, Newark, California

INTRODUCTION

This Air Quality and Greenhouse Gas Emissions Analysis for the proposed Cedar Townhomes Project at 38600 Cedar Boulevard (project) in the Newark, California, has been prepared using methods and assumptions recommended by the Bay Area Air Quality Management District (BAAQMD).[1,2] This analysis includes a description of the proposed project, the existing regulatory framework, an assessment of project construction and operation-period air quality and greenhouse gas (GHG) emissions, an assessment of potential health risks, and an evaluation of the project's compliance with adopted plans related to the reduction of clean air and GHG emissions.

PROJECT DESCRIPTION

The 3.72-acre project site is located at 38600 Cedar Boulevard in the City of Newark (City), Alameda County (County), California. The project site is bound to the north by Interstate 880 (I-880), to the east by a motel, to the south by Cedar Boulevard, and to the west by commercial and industrial uses. The project site is currently developed with three existing commercial industrial buildings, totaling 34,219 square feet, and a surface parking lot.

The proposed project would include the demolition of the existing buildings and parking lot and would redevelop the project site with 76 townhome units with two garage spaces per unit for a total of 152 spaces and 38 surface parking spaces. The proposed project would also include 14,101 square feet of common open space and 7,000 square feet of private open space. In addition, the proposed project would have the following sustainability features: low flow fixtures, drought tolerant landscaping, solar, and non-potable common area irrigation water. In addition, the proposed

1 Bay Area Air Quality Management District (BAAQMD). 2017. *California Environmental Quality Act, Air Quality Guidelines*. May.

2 BAAQMD. 2022. *Justification Report: CEQA Thresholds for Evaluating the Significance of Climate Impacts From Land Use Projects and Plans*. April.

project's energy supply would be all-electric and would not include natural gas infrastructure or usage. The proposed project is expected to generate approximately 547 average daily trips.

Construction of the proposed project would begin in the fourth quarter of 2023 and would end in 2024. Construction would include demolition, grading, site preparation, building, paving, and architectural coating (painting) activities. This analysis assumes that the project site would be balanced with no import or export activities and use of Tier 3 construction equipment.

EXISTING SENSITIVE RECEPTORS IN THE PROJECT AREA

For the purposes of this analysis, sensitive receptors are areas of population that have an increased sensitivity to air pollution or environmental contaminants. Sensitive receptor locations include residences, schools, day care centers, hospitals, parks, and similar uses which are sensitive to air quality. Impacts on sensitive receptors are of particular concern because they are the population most vulnerable to the effects of air pollution. The closest receptors to the project site include single-family residences located approximately 120 feet south of the project site boundary across Cedar Boulevard. In addition, single-family residences are located approximately 270 feet north of the project site across I-880 and multi-family residential uses are located approximately 340 feet southeast of the project site along Cedar Court.

ENVIRONMENTAL SETTING

Air Quality Background

Air quality is primarily a function of both local climate, local sources of air pollution and regional pollution transport. The amount of a given pollutant in the atmosphere is determined by the amount of the pollutant released and the atmosphere's ability to transport and dilute the pollutant. The major determinants of transport and dilution are wind, atmospheric stability, terrain, and for photochemical pollutants, sunshine.

A region's topographic features have a direct correlation with air pollution flow and, therefore, are used to determine the boundary of air basins. Newark is located within the San Francisco Bay Area Air Basin (Air Basin), a large shallow air basin ringed by hills that taper into a number of sheltered valleys around the perimeter. Two primary atmospheric outlets exist. One is through the strait known as the Golden Gate, a direct outlet to the Pacific Ocean. The second extends to the northeast, along the west delta region of the Sacramento and San Joaquin Rivers.

The City of Newark is within the jurisdiction of the BAAQMD, which regulates air quality in the Bay Area. Air quality conditions in the Bay Area have improved significantly since the BAAQMD was created in 1955. Ambient concentrations of air pollutants and the number of days during which the region exceeds air quality standards have fallen dramatically. Neither State nor national ambient air quality standards of the following chemicals have been violated in recent decades: nitrogen dioxide, sulfur dioxide, sulfates, lead, hydrogen sulfide, and vinyl chloride. Those exceedances of air quality standards that do occur primarily happen during meteorological conditions conducive to high pollution levels, such as cold, windless nights or hot, sunny summer afternoons.

Both State and federal governments have established health-based Ambient Air Quality Standards for six criteria air pollutants: carbon monoxide (CO), ozone (O_3), nitrogen dioxide (NO_2), sulfur

dioxide (SO_2), lead (Pb), and suspended particulate matter. In addition, the State has set standards for sulfates, hydrogen sulfide, vinyl chloride and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety. Two criteria pollutants, O_3 and NO_2, are considered regional pollutants because they (or their precursors) affect air quality on a regional scale. Pollutants such as CO, SO_2, and Pb are considered local pollutants that tend to accumulate in the air locally. The BAAQMD is under State nonattainment status for ozone and particulate matter standards. The BAAQMD is classified as nonattainment for the federal ozone 8-hour standard and nonattainment for the federal $PM_{2.5}$ 24-hour standard. As such, the primary pollutants of concern in the project area are O_3, CO, and $PM_{2.5}$.

Because of the conservative nature of the significance thresholds, and the basin-wide context of individual development project emissions, there is no direct correlation between a single project and localized air quality-related health effects. One individual project that generates emissions exceeding a threshold does not necessarily result in adverse health effects for residents in the project vicinity. This condition is especially true when the criteria pollutants exceeding thresholds are those with regional effects, such as ozone precursors like nitrogen oxides (NO_x) and reactive organic gases (ROG).

Further, by its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size to by itself result in nonattainment of ambient air quality standards. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant. In developing thresholds of significance for air pollutants, the air districts have considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions.

Occupants of facilities such as schools, daycare centers, parks and playgrounds, hospitals, and nursing and convalescent homes are considered to be more sensitive than the general public to air pollutants because these population groups have increased susceptibility to respiratory disease. Persons engaged in strenuous work or exercise also have increased sensitivity to poor air quality. Residential areas are considered more sensitive to air quality conditions, compared to commercial and industrial areas, because people generally spend longer periods of time at their residences, with greater associated exposure to ambient air quality conditions. Recreational uses are also considered sensitive compared to commercial and industrial uses due to greater exposure to ambient air quality conditions associated with exercise. These populations are referred to as sensitive receptors.

Greenhouse Gas and Global Climate Change Background

Greenhouse gases (GHGs) are present in the atmosphere naturally, are released by natural sources, or are formed from secondary reactions taking place in the atmosphere. The gases that are widely seen as the principal contributors to human-induced global climate change are:

- Carbon dioxide (CO_2);
- Methane (CH_4);
- Nitrous oxide (N_2O);

- Hydrofluorocarbons (HFCs);
- Perfluorocarbons (PFCs); and
- Sulfur Hexafluoride (SF_6).

Over the last 200 years, humans have caused substantial quantities of GHGs to be released into the atmosphere. These extra emissions are increasing GHG concentrations in the atmosphere and enhancing the natural greenhouse effect, which is believed to be causing global warming. While manmade GHGs include naturally occurring GHGs such as CO_2, CH_4, and N_2O, some gases, like HFCs, PFCs, and SF_6 are completely new to the atmosphere.

Certain gases, such as water vapor, are short-lived in the atmosphere. Others remain in the atmosphere for significant periods of time, contributing to climate change in the long term. Water vapor is excluded from the list of GHGs above because it is short-lived in the atmosphere and its atmospheric concentrations are largely determined by natural processes, such as oceanic evaporation.

These gases vary considerably in terms of Global Warming Potential (GWP), which is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and length of time that the gas remains in the atmosphere ("atmospheric lifetime"). The GWP of each gas is measured relative to CO_2, the most abundant GHG; the definition of GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to the ratio of heat trapped by one unit mass of CO_2 over a specified time period. GHG emissions are typically measured in terms of pounds or tons of "CO_2 equivalents" (CO_2e).

REGULATORY FRAMEWORK

This section provides regulatory background information for air quality and GHGs.

Air Quality

Federal Regulations

The 1970 Federal Clean Air Act (CAA) authorized the establishment of national health-based air quality standards and set deadlines for their attainment. The CAA Amendments of 1990 changed deadlines for attaining national standards as well as the remedial actions required for areas of the nation that exceed the standards. Under the CAA, State and local agencies in areas that exceed the national standards are required to develop State Implementation Plans to demonstrate how they will achieve the national standards by specified dates.

State Regulations

In 1988, the California Clean Air Act (CCAA) required that all air districts in the State endeavor to achieve and maintain California Ambient Air Quality Standards (CAAQS) for CO, O_3, sulfur dioxide (SO_2), and nitrogen dioxide ($NO_{2)}$ by the earliest practical date. The CCAA provides districts with authority to regulate indirect sources and mandates that air quality districts focus particular attention on reducing emissions from transportation and area-wide emission sources. Each nonattainment district is required to adopt a plan to achieve a 5 percent annual reduction, averaged

over consecutive 3-year periods, in district-wide emissions of each nonattainment pollutant or its precursors. A Clean Air Plan shows how a district would reduce emissions to achieve air quality standards. Generally, the State standards for these pollutants are more stringent than the national standards.

The CARB is the State's "clean air agency." The CARB's goals are to attain and maintain healthy air quality, protect the public from exposure to toxic air contaminants, and oversee compliance with air pollution rules and regulations.

Regional Regulations

The BAAQMD seeks to attain and maintain air quality conditions in the San Francisco Bay Area Air Basin through a comprehensive program of planning, regulation, enforcement, technical innovation, and education. The clean air strategy includes the preparation of plans for the attainment of ambient air quality standards, adoption and enforcement of rules and regulations, and issuance of permits for stationary sources. The BAAQMD also inspects stationary sources and responds to citizen complaints, monitors ambient air quality and meteorological conditions, and implements programs and regulations required by law.

Clean Air Plan. The Clean Air Plan guides the region's air quality planning efforts to attain the CAAQS.[1] The BAAQMD 2017 Clean Air Plan, which was adopted on April 19, 2017, by the BAAQMD Board of Directors, is the current Clean Air Plan which contains district-wide control measures to reduce ozone precursor emissions (e.g., ROG and NO_x), particulate matter and greenhouse gas (GHG) emissions.

The Bay Area 2017 Clean Air Plan:

- Describes the BAAQMD plan towards attaining all State and federal air quality standards and eliminating health risk disparities from exposure to air pollution among Bay Area communities;
- Defines a vision for transitioning the region to a post-carbon economy needed to achieve ambitious GHG reduction targets for 2030 and 2050;
- Provides a regional climate protection strategy that will put the Bay Area on a pathway to achieve GHG reduction targets; and
- Includes a wide range of control measures designed to decrease emissions of air pollutants that are most harmful to Bay Area residents, such as particulate matter, ozone, and toxic air contaminants; to reduce emissions of methane and other "Super-GHGs" that are potent climate pollutants in the near term; and to decrease emissions of carbon dioxide by reducing fossil fuel combustion.

[1] Bay Area Air Quality Management District (BAAQMD). 2017. *Final 2017 Clean Air Plan*. April 19, 2017. Website: www.baaqmd.gov/~/media/files/planning-and-research/plans/2017-clean-air-plan/attachment-a_-proposed-final-cap-vol-1-pdf.pdf?la=en (accessed October 2022).

BAAQMD CEQA Air Quality Guidelines. The BAAQMD CEQA Air Quality Guidelines were prepared to assist in the evaluation of air quality impacts of projects and plans proposed within the Bay Area. The guidelines provide recommended procedures for evaluating potential air impacts during the environmental review process, consistent with CEQA requirements, and include recommended thresholds of significance, mitigation measures, and background air quality information. They also include recommended assessment methodologies for air toxics, odors, and GHG emissions.

In May 2017, the BAAQMD published an updated version of the CEQA Guidelines. The BAAQMD CEQA Guidelines include thresholds to evaluate project impacts in order to protectively evaluate the potential effects of the project on air quality. These protective thresholds are appropriate in the context of the size, scale, and location of the proposed project.

Local Regulations

The Health and Wellness Element of the *City of Newark General Plan*[1] includes air quality policies and implementation measures that focus on air quality that meets state and federal standards and provides improved respiratory health for Newark residents. The following goals and policies are applicable to the proposed project:

- **Policy HW1.2. Land Use, Transportation, and Air Quality**. Make land use and transportation decisions that reduce tailpipe emissions, including promotion of walking and bicycling, improvements to public transportation, and a jobs-housing balance that reduces vehicle commute miles, higher density development and mixed commercial and residential uses should be permitted near the proposed Dumbarton Rail Station, and in other areas where high frequency transit service is proposed.

- **Policy HW1.3. Reducing Exposure to Air Pollution in New Development.** Use site planning and architectural design to reduce potential exposure of sensitive uses to major air pollution sources including freeways and industrial activities.

- **Policy HW1.4. Evaluation of Air Quality Impacts**. Evaluate air quality impacts during the local development review process. Development should be located and regulated to minimize significant air quality related health risks.

- **Policy HW1.5. Cleaner Fuels.** Encourage the use of cleaner burning fuels and low emission vehicles.

Greenhouse Gas Emissions

This section describes regulations related to global climate change at the federal, State, and local level.

[1] Newark, City of. 2013. *City of Newark General Plan, Health and Wellness Element*. December. Website: https://www.newark.org/home/showpublisheddocument/76/636502245500200000 (accessed October 2022).

Federal Regulations

The United States has historically had a voluntary approach to reducing GHG emissions. However, on April 2, 2007, the United States Supreme Court ruled that the EPA has the authority to regulate CO_2 emissions under the CAA.

While there currently are no adopted federal regulations for the control or reduction of GHG emissions, the EPA commenced several actions in 2009 to implement a regulatory approach to global climate change, including the 2009 EPA final rule for mandatory reporting of GHGs from large GHG emission sources in the United States. Additionally, the EPA Administrator signed an endangerment finding action in 2009 under the CAA, finding that seven GHGs (CO_2, CH_4, N_2O, HFCs, NF_3, PFCs, and SF_6) constitute a threat to public health and welfare, and that the combined emissions from motor vehicles cause and contribute to global climate change, leading to national GHG emission standards.

State Regulations

The CARB is the lead agency for implementing climate change regulations in the State. Since its formation, the CARB has worked with the public, the business sector, and local governments to find solutions to California's air pollution problems. Key efforts by the State are described below.

Assembly Bill 32 (2006), California Global Warming Solutions Act. California's major initiative for reducing GHG emissions is Assembly Bill (AB) 32, passed by the State legislature on August 31, 2006. This effort set a GHG emission reduction target to reduce GHG emissions to 1990 levels by 2020. The CARB has established the level of GHG emissions in 1990 at 427 million metric tons (MMT) CO_2e. The emissions target of 427 MMT requires the reduction of 169 MMT from the State's projected business-as-usual 2020 emissions of 596 MMT. AB 32 requires the CARB to prepare a Scoping Plan that outlines the main State strategies for meeting the 2020 deadline and to reduce GHGs that contribute to global climate change. The CARB approved the Scoping Plan on December 11, 2008. It contains the main strategies California will implement to achieve the reduction of approximately 169 MMT of CO_2e, or approximately 30 percent, from the State's projected 2020 emission level of 596 MMT of CO_2e under a business-as-usual scenario (this is a reduction of 42 MMT CO_2e, or almost 10 percent from 2002–2004 average emissions). The Scoping Plan also includes CARB-recommended GHG reductions for each emissions sector of the State's GHG inventory. The Scoping Plan calls for the largest reductions in GHG emissions to be achieved by implementing the following measures and standards:

- Improved emissions standards for light-duty vehicles (estimated reduction of 31.7 MMT CO_2e);
- The Low-Carbon Fuel Standard (15.0 MMT CO_2e);
- Energy efficiency measures in buildings and appliances and the widespread development of combined heat and power systems (26.3 MMT CO_2e); and
- A renewable portfolio standard for electricity production (21.3 MMT CO_2e).

The Scoping Plan identifies 18 emission reduction measures that address cap-and-trade programs, vehicle gas standards, energy efficiency, low carbon fuel standards, renewable energy, regional transportation-related GHG targets, vehicle efficiency measures, goods movement, solar roof programs, industrial emissions, high-speed rail, green building strategies, recycling, sustainable forests, water, and air. The measures would result in a total reduction of 174 MMT CO_2e by 2020.

On August 24, 2011, the CARB unanimously approved both the new supplemental assessment and reapproved its Scoping Plan, which provides the overall roadmap and rule measures to carry out AB 32. The CARB also approved a more robust CEQA equivalent document supporting the supplemental analysis of the cap-and-trade program. The cap-and-trade took effect on January 1, 2012, with an enforceable compliance obligation that began January 1, 2013.

The CARB approved the First Update to the Climate Change Scoping Plan on May 22, 2014. The First Update identifies opportunities to leverage existing and new funds to further drive GHG emission reductions through strategic planning and targeted low carbon investments. The First Update defines CARB climate change priorities until 2020 and sets the groundwork to reach long-term goals set forth in Executive Orders (EOs) S-3-05 and B-16-2012. The Update highlights California's progress toward meeting the "near-term" 2020 GHG emission reduction goals as defined in the initial Scoping Plan. It also evaluates how to align the State's "longer-term" GHG reduction strategies with other State policy priorities for water, waste, natural resources, clean energy, transportation, and land use. The CARB released a second update to the Scoping Plan, the 2017 Scoping Plan,[1] to reflect the 2030 target set by EO B-30-15 and codified by Senate Bill (SB) 32.

CARB is currently working on an update to the 2017 Scoping Plan, which will be released this year. The 2022 Scoping Plan Update will assess progress towards achieving the SB 32 2030 target and lay out a path to achieve carbon neutrality no later than 2045.

Senate Bill 375 (2008). Signed into law on October 1, 2008, SB 375 supplements GHG reductions from new vehicle technology and fuel standards with reductions from more efficient land use patterns and improved transportation. Under the law, the CARB approved GHG reduction targets in February 2011 for California's 18 federally designated regional planning bodies, known as Metropolitan Planning Organizations (MPOs). The CARB may update the targets every four years and must update them every eight years. MPOs, in turn, must demonstrate how their plans, policies and transportation investments meet the targets set by the CARB through Sustainable Community Strategies (SCS). The SCSs are included with the Regional Transportation Plan, a report required by State law. However, if an MPO finds that its SCS will not meet the GHG reduction target, it may prepare an Alternative Planning Strategy (APS). The APS identifies the impediments to achieving the targets.

Executive Order B-30-15 (2015). Governor Jerry Brown signed EO B-30-15 on April 29, 2015, which added the immediate target of:

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[1] California Air Resources Board CARB). 2017. *California's 2017 Climate Change Scoping Plan*. November. Website: ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/scoping_plan_2017.pdf (accessed July 2022).

- GHG emissions should be reduced to 40 percent below 1990 levels by 2030.

All State agencies with jurisdiction over sources of GHG emissions were directed to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 targets. The CARB was directed to update the AB 32 Scoping Plan to reflect the 2030 target, and, therefore, is moving forward with the update process. The mid-term target is critical to help frame the suite of policy measures, regulations, planning efforts, and investments in clean technologies and infrastructure needed to continue reducing emissions.

Senate Bill 350 (2015) Clean Energy and Pollution Reduction Act. SB 350, signed by Governor Jerry Brown on October 7, 2015, updates and enhances AB 32 by introducing the following set of objectives in clean energy, clean air, and pollution reduction for 2030:

- Raise California's renewable portfolio standard from 33 percent to 50 percent; and
- Increase energy efficiency in buildings by 50 percent by the year 2030.

The 50 percent renewable energy standard will be implemented by the California Public Utilities Commission (CPUC) for the private utilities and by the California Energy Commission (CEC) for municipal utilities. Each utility must submit a procurement plan showing it will purchase clean energy to displace other nonrenewable resources. The 50 percent increase in energy efficiency in buildings must be achieved through the use of existing energy efficiency retrofit funding and regulatory tools already available to State energy agencies under existing law. The addition made by this legislation requires State energy agencies to plan for and implement those programs in a manner that achieves the energy efficiency target.

Senate Bill 32, California Global Warming Solutions Act of 2016, and Assembly Bill 197. In summer 2016, the Legislature passed and the Governor signed SB 32 and AB 197. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in Governor Brown's April 2015 EO B-30-15. SB 32 builds on AB 32 and keeps us on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels, consistent with an Intergovernmental Panel on Climate Change analysis of the emission trajectory that would stabilize atmospheric GHG concentrations at 450 parts per million CO_2e and reduce the likelihood of catastrophic impacts from climate change.

The companion bill to SB 32, AB 197, provides additional direction to the CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 meant to provide easier public access to air pollutant emissions data that are collected by the CARB was posted in December 2016.

Senate Bill 100. On September 10, 2018, Governor Brown signed SB 100, which raises California's renewable portfolio standard requirements to 60 percent by 2030, with interim targets, and 100 percent by 2045. The bill also establishes a State policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of all retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all State agencies by December 31, 2045.

Under the bill, the State cannot increase carbon emissions elsewhere in the Western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

Executive Order B-55-18. EO B-55-18, signed September 10, 2018, sets a goal "to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter." EO B-55-18 directs the CARB to work with relevant State agencies to ensure future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal. The goal of carbon neutrality by 2045 is in addition to other statewide goals, meaning not only should emissions be reduced to 80 percent below 1990 levels by 2050, but that, by no later than 2045, the remaining emissions be offset by equivalent net removals of CO_2e from the atmosphere, including through sequestration in forests, soils, and other natural landscapes.

Regional Regulations

The BAAQMD is the regional government agency that regulates sources of air pollution within the nine Bay Area counties.

BAAQMD's Justification Report: CEQA Thresholds for Evaluating the Significance of Climate Impacts from Land Use Projects and Plans. In April 2022, the BAAQMD adopted the Justification Report: CEQA Thresholds for Evaluating the Significance of Climate Impacts from Land Use Projects and Plans[1] document which incorporates updated GHG significance thresholds. The BAAQMD recommends these thresholds of significance for use in determining whether a proposed project will have a significant impact related to climate change. These thresholds evaluate a project based on its effect on California's efforts to meet the State's long-term climate goals. Applying this approach, the BAAQMD identifies and provides supporting documentation, outlining the requirements for new land use development projects necessary to achieve California's long-term climate goal of carbon neutrality by 2045. Based on their analysis, the BAAQMD found that new land use development projects need to incorporate design elements to do its "fair share" to implement the goal of carbon neutrality by 2045. If a project is designed and built to incorporate the identified design elements, then it will contribute its portion of what is necessary to achieve California's long-term climate goals—its "fair share"—and an agency reviewing the project under CEQA can conclude that the project will not make a cumulatively considerable contribution to global climate change. The document concludes that if a project does not incorporate these design elements, then it should be found to make a significant climate impact because it will hinder California's efforts to address climate change.

Local Regulations

The City of Newark has prepared a Climate Action Plan (CAP).[2] The CAP is a comprehensive planning document outlining the City's proposed approach to reduce Newark's impact on the climate by reducing GHG emissions. The vision of the CAP is to lower GHG emissions, reduce energy costs, protect air quality and improve the economy and the environment. The CAP includes a roadmap for implementing new polices, programs, incentives, requirements, projects, and initiatives in the

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1 BAAQMD, 2022. Op.cit.

2 Newark, City of. 2010. City of Newark Climate Action Plan. January. Website: https://www.newark.org/home/showpublisheddocument/328/636502463456000000 (accessed October 2022).

immediate future, as well as longer-term actions that will need to be studied further while monitoring how the climate continues to change and evaluating the effectiveness of actions taken. The CAP includes action items to be implemented by the City, individual residential households, and businesses.

METHODOLOGY

Construction Emissions

Construction activities can generate a substantial amount of air pollution. Construction activities are considered temporary; however, short-term impacts can contribute to exceedances of air quality standards. Construction activities include demolition, site preparation, earthmoving, and general construction. The emissions generated from these common construction activities include fugitive dust from soil disturbance, fuel combustion from mobile heavy-duty diesel- and gasoline-powered equipment, portable auxiliary equipment, and worker commute trips. The California Emissions Estimator Model (CalEEMod) Version 2020.4.0 computer program was used to calculate emissions from on-site construction equipment and emissions from worker and vehicle trips to the site. Construction of the proposed project would begin in the fourth quarter of 2023 and would end in 2024. Construction would include demolition, grading, site preparation, building, paving, and architectural coating (painting) activities. The proposed project would demolish the existing uses, which was included in CalEEMod. This analysis assumes that the project site would be balanced with no import or export activities and use of Tier 3 construction equipment, which was also included in CalEEMod. Other detailed construction information is currently unavailable; therefore, this analysis uses CalEEMod default assumptions.

Construction Health Risk Assessment

A construction health risk assessment (HRA), which evaluates construction-period health risk to off-site receptors, was performed for the proposed project, and the analysis is presented below. To estimate the potential cancer risk associated with construction of the proposed project from equipment exhaust (including diesel particulate matter), a dispersion model was used to translate an emission rate from the source location to a concentration at the receptor location of interest (i.e., a nearby residence and worksites). Dispersion modeling varies from a simpler, more conservative screening-level analysis to a more complex and refined detailed analysis. This refined assessment was conducted using the CARB exposure methodology with the air dispersion modeling performed using the EPA dispersion model AERMOD. The model provides a detailed estimate of exhaust concentrations based on site and source geometry, source emissions strength, distance from the source to the receptor, and meteorological data.

Operational Emissions

This air quality analysis includes estimating emissions associated with long-term operation of the project. Indirect emissions of criteria pollutants with regional impacts would be emitted by project-generated vehicle trips. In addition, localized air quality impacts (i.e., higher carbon monoxide concentrations or “hot-spots”) near intersections or roadway segments in the project vicinity would also potentially occur due to project-generated vehicle trips.

Consistent with BAAQMD's guidance for estimating emissions, the CalEEMod computer program was used to calculate the long-term operational emissions associated with the project. The analysis was conducted using land use codes *Condo/Townhouse, Parking Lot, and City Park.* The proposed project is expected to generate approximately 547 average daily trips, which was included in CalEEMod. In addition, the proposed project would be all-electric and would not include natural gas and would have the following sustainability features: low flow fixtures, drought tolerant landscaping, solar, and non-potable common area irrigation water. Where project-specific data were not available, default assumptions (e.g., energy usage, water usage, and solid waste generation) from CalEEMod were used to estimate project emissions. CalEEMod output sheets are included in Attachment A.

Operational Health Risk Assessment

To determine health risks associated with the proposed project to on-site receptors, an HRA was conducted for the proposed project based on three current guidance documents: (1) the California USEPA Air Toxics Hot Spots Program Risk Assessment Guidelines;[1] (2) The California Air Pollution Control Officers Association's (CAPCOA) *Health Risk Assessment for Proposed Land Use Projects*;[2] and (3) the BAAQMD Recommended Methods for Screening and Modeling Local Risks and Hazards.[3] The BAAQMD document was released in May 2012 with the purpose of assisting lead agencies in conducting a risk and hazard analysis as part of the environmental review process for proposed land use projects, and it provides Bay Area-specific guidance on how to screen projects and provides specific inputs for HRA modeling. The analysis consists of several steps: determine the PM_{10} emission factor, determine source emission rates, and determine concentrations at the project site; translate the PM_{10} concentrations into health risk values; and compare the health risk values to the BAAQMD's thresholds to determine significance.

The project site is located near several sources of mobile toxic air contaminants (TACs) associated with vehicles on I-880, which was evaluated in the operational HRA. Annual traffic data obtained from the California Department of Transportation (Caltrans) were used as an input to the model for the evaluation of I-880.[4] According to Caltrans, the total annual average daily traffic (AADT) along I-880 near the project site is 190,000, of which 5.4 percent is trucks.

The BAAQMD requires that age sensitivity be included when assessing exposure to sensitive receptors. For long-term exposure, OEHHA recommends that an age sensitivity factor (ASF) of 1.7 be applied when estimating long-term exposure or 70-year-lifetime cancer risk. The exposure

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1 California Environmental Protection Agency (CalEPA). 2003. *Air Toxics Hot Spots Program Risk Assessment Guidelines*. August.

2 California Air Pollution Control Officers Association (CAPCOA). 2009. *Health Risk Assessment for Proposed Land Use Projects.* July.

3 Bay Area Air Quality Management District (BAAQMD). 2016. *Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines.* January. Website: www.baaqmd.gov/~/media/files/planning-and-research/rules-and-regs/workshops/2016/reg-2-5/hra-guidelines_clean_jan_2016-pdf.pdf?la=en (accessed May 2021).

4 California Department of Transportation (Caltrans). 2020. Traffic Volumes on California State Highways. Website: https://dot.ca.gov/programs/traffic-operations/census (accessed October 2022).

assumptions are very conservative in that they assume an individual would reside at this location from birth through 70 years of age.

Emission factors for vehicle emissions were determined using the CARB's EMFAC2021. EMFAC2021 includes assumptions of technological and regulatory changes that will reduce emission rates over time. The model only allows for a single emission rate for the entire 70-year health risk evaluation period. Therefore, a worst-case set of emission factors from the year 2023 was used to represent the long-term 70-year evaluation period.

The emission rates by total AADT and the average speed, along with the classification of the total AADT into 13 vehicle-type categories, and the corresponding total emissions for that volume of vehicles at the average speed (5-70 miles per hour), are provided in Appendix B. For the purpose of this assessment, it is assumed that the traffic volumes are constant throughout the year. The PM_{10} emission rates used in the analysis were determined based on the vehicle distribution by type according to the Caltrans traffic data for I-880. For purposes of this analysis, diesel vehicle exhaust was modeled as a 10-lane highway with 85 volume sources for each lane located along I-880.

LSA also evaluated the project vicinity for potential sources of stationary emissions. To assess the potential risk from stationary sources, LSA used the latest BAAQMD Stationary Source Screening Analysis Tool which uses Google Earth to plot the location coordinates of stationary emission sources such as gas stations, diesel emergency generators, and incinerators. Health risk data is provided for each facility. Google Earth's measurement tool is used to determine the distance from the emission source to the location of the sensitive receptor.

Greenhouse Gas Emissions

GHG emissions associated with the project would occur over the short-term from construction activities, consisting primarily of emissions from equipment exhaust. There would also be long-term GHG emissions associated with project-related area sources, energy consumption, water conveyance and treatment, and waste generation.

THRESHOLDS OF SIGNIFICANCE

The *State CEQA Guidelines* indicate that a project would normally have a significant adverse air quality impact if project-generated pollutant emissions would:

- Conflict with or obstruct implementation of the applicable air quality plan;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project is nonattainment under an applicable federal or state ambient air quality standard;
- Expose sensitive receptors to substantial pollutant concentrations; or
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

According to the BAAQMD CEQA Guidelines, to meet air quality standards for criteria air pollutant and air precursor impacts, the proposed project must not:

- Contribute to CO concentrations exceeding the State ambient air quality standards;
- Generate average daily construction emissions of ROG, NO_x or $PM_{2.5}$ (exhaust) greater than 54 pounds per day or PM_{10} [particulate matter 10 microns or less in diameter] exhaust emissions greater than 82 pounds per day;
- Generate operational emissions of ROG, NO_x or $PM_{2.5}$ of greater than 10 tons per year or 54 pounds per day or PM_{10} emissions greater than 15 tons per year or 82 pounds per day; or
- Exceed a cancer risk level of more than 10 in one million, a non-cancer risk (i.e., chronic or acute) hazard index greater than 1.0, or result in incremental increase of greater than 0.3 micrograms per cubic meter annual average $PM_{2.5}$.

The *State CEQA Guidelines* indicate that a project would normally have a significant adverse GHG emission impact if the project would:

- Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment; or
- Conflict with an applicable plan, policy or regulation adopted for the purpose of reduction the emissions of greenhouse gases.

According to the April 2022 BAAQMD *Justification Report: CEQA Thresholds for Evaluating the Significance of Climate Impacts From Land Use Projects and Plans*, a project would have a less than significant impact related to GHG emissions if it would:

a. Include, at a minimum, the following project design elements:

    1. Buildings

        a. The project will not include natural gas appliances or natural gas plumbing (in both residential and nonresidential development).

        b. The project will not result in any wasteful, inefficient, or unnecessary electrical usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines.

    2. Transportation

        a. Achieve a reduction in project-generated vehicle miles traveled (VMT) below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted Senate Bill 743 VMT target, reflecting the recommendations provided in the Governor's Office of Planning and Research's Technical Advisory on Evaluating Transportation Impacts in CEQA:

1. Residential projects: 15 percent below the existing VMT per capita
2. Office projects: 15 percent below the existing VMT per employee
3. Retail projects: no net increase in existing VMT

b. Achieve compliance with off-street electric vehicle requirements in the most recently adopted version of CALGreen Tier 2.

b. Or be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b).

PROJECT IMPACTS

The sections below describe the proposed project's consistency with applicable air quality plans, estimated project emissions, and the significance of impacts for both air quality and GHG emissions with respect to BAAQMD thresholds.

Air Quality

Consistency with Applicable Air Quality Plans

The applicable air quality plan is the BAAQMD 2017 Clean Air Plan, which defines control strategies to reduce emissions and ambient concentrations of air pollutants; safeguard public health by reducing exposure to air pollutants that pose the greatest heath risk, with an emphasis on protecting the communities most heavily affected by air pollution; and reduce GHG emissions to protect the climate. Consistency with the Clean Air Plan can be determined if the project: (1) supports the goals of the Clean Air Plan, (2) includes applicable control measures from the Clean Air Plan, and (3) would not disrupt or hinder implementation of any control measures from the Clean Air Plan.

Clean Air Plan Goals. The primary goals of the Bay Area Clean Air Plan are to attain air quality standards, reduce population exposure and protect public health in the Bay Area, and reduce GHG emissions and protect the climate.

The BAAQMD has established significance thresholds for project construction and operational impacts at a level at which the cumulative impact of exceeding these thresholds would have an adverse impact on the region's attainment of air quality standards. The health and hazards thresholds were established to help protect public health. As discussed below, construction and operation of the proposed project would not result in the generation of criteria air pollutants that would exceed BAAQMD thresholds of significance. Therefore, the proposed project would not conflict with the Clean Air Plan goals.

Clean Air Plan Control Measures. The control strategies of the Clean Air Plan include measures in the following categories: Stationary Source Measures, Transportation Measures, Energy Measures, Building Measures, Agriculture Measures, Natural and Working Lands Measures, Waste Management Measures, Water Measures, and Super-GHG Pollutants Measures. The proposed project's compliance with each of these control measures is discussed below.

Stationary Source Control Measures. The Stationary Source Control Measures, which are designed to reduce emissions from stationary sources such as metal melting facilities, cement kilns, refineries, and glass furnaces, are incorporated into rules adopted by the BAAQMD and then enforced by the BAAQMD Permit and Inspection programs. Since the proposed project would not include any of these stationary sources, the Stationary Source Control Measures of the Clean Air Plan are not applicable to the proposed project.

Transportation Control Measures. The BAAQMD identifies Transportation Control Measures as part of the Clean Air Plan to decrease emissions of criteria pollutants, TACs, and GHGs by reducing demand for motor vehicle travel, promoting efficient vehicles and transit service, decarbonizing transportation fuels, and electrifying motor vehicles and equipment. The proposed project would result in the redevelopment of the site with residential uses on an infill site that would locate residents near existing residential, commercial, and retail uses, reducing the demand for travel by single-occupancy vehicles. Therefore, the proposed project would not conflict with the identified Transportation and Mobile Source Control Measures of the Clean Air Plan.

Energy Control Measures. The Clean Air Plan also includes Energy Control Measures, which are designed to reduce emissions of criteria air pollutants, TACs, and GHGs by decreasing the amount of electricity consumed in the Bay Area and decreasing the carbon intensity of the electricity used by switching to less GHG-intensive fuel sources for electricity generation. Since these measures apply to electrical utility providers and local government agencies (and not individual projects), the energy control measures of the Clean Air Plan are not applicable to the proposed project.

Building Control Measures. The BAAQMD has authority to regulate emissions from certain sources in buildings such as boilers and water heaters but has limited authority to regulate buildings themselves. Therefore, the strategies in the control measures for this sector focus on working with local governments that do have authority over local building codes, to facilitate adoption of best GHG control practices and policies. The proposed project would be required to comply with the latest Title 24 standards of the California Code of Regulations, regarding energy conservation and green building standards. In addition, the proposed project would be all-electric and would not include natural gas and would include solar. Therefore, the proposed project would not conflict with any of the Building Control Measures.

Agriculture Control Measures. The Agriculture Control Measures are designed to primarily reduce emissions of methane. Since the project does not include any agricultural activities, the Agriculture Control Measures of the Clean Air Plan are not applicable to the proposed project.

Natural and Working Lands Control Measures. The Natural and Working Lands Control Measures focus on increasing carbon sequestration on rangelands and wetlands and encouraging local governments to adopt ordinances that promote urban tree plantings. Since the proposed project does not include the disturbance of any rangelands or wetlands, the Natural and Working Lands Control Measures of the Clean Air Plan are not applicable to the proposed project.

Waste Management Control Measures. The Waste Management Control Measures focus on reducing or capturing methane emissions from landfills and composting facilities, diverting organic materials away from landfills, and increasing waste diversion rates through efforts to reduce, reuse, and recycle. The proposed project would comply with local requirements for waste management (e.g., recycling and composting services). Therefore, the proposed project would be consistent with the Waste Management Control Measures of the Clean Air Plan.

Water Control Measures. The Water Control Measures focus on reducing emissions of criteria pollutants, TACs, and GHGs by encouraging water conservation, limiting GHG emissions from publicly owned treatment works (POTW), and promoting the use of biogas recovery systems. Since these measures apply to POTWs and local government agencies (and not individual projects), the Water Control Measures are not applicable to the proposed project.

Super GHG Control Measures. The Super-GHG Control Measures are designed to facilitate the adoption of best GHG control practices and policies through the BAAQMD and local government agencies. Since these measures do not apply to individual projects, the Super-GHG Control Measures are not applicable to the proposed project.

Clean Air Plan Implementation. As discussed above, the proposed project would generally implement the applicable measures outlined in the Clean Air Plan, including Transportation Control Measures. Therefore, the project would not disrupt or hinder implementation of a control measure from the Clean Air Plan.

Criteria Pollutant Analysis

The BAAQMD is currently designated as a nonattainment area for State and national O_3 standards and national particulate matter ambient air quality standards. The BAAQMD's nonattainment status is attributed to the region's development history. Past, present, and future development projects contribute to the region's adverse air quality impacts on a cumulative basis. By its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size to, by itself, result in nonattainment of ambient air quality standards. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant.

In developing thresholds of significance for air pollutants, the BAAQMD considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions. Therefore, additional analysis to assess cumulative impacts is unnecessary. The following analysis assesses the potential project-level construction- and operation-related air quality impacts.

Short-Term Construction Emissions. During construction, short-term degradation of air quality may occur due to the release of particulate emissions generated by demolition, grading, building, paving, and other activities. Emissions from construction equipment are also anticipated and would include CO, NO_x, ROG, directly emitted particulate matter ($PM_{2.5}$ and PM_{10}), and TACs such as diesel exhaust particulate matter.

Project construction activities would include demolition, site preparation, grading, building, paving, and architectural coating (painting). Construction-related effects on air quality from the proposed project would be greatest during the site preparation phase due to the disturbance of soils. If not properly controlled, these activities would temporarily generate particulate emissions. Sources of fugitive dust would include disturbed soils at the construction site. Unless properly controlled, vehicles leaving the site would deposit dirt and mud on local streets, which could be an additional source of airborne dust after it dries. PM_{10} emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. PM_{10} emissions would depend on soil moisture, silt content of soil, wind speed, and the amount of operating equipment. Larger dust particles would settle near the source, while fine particles would be dispersed over greater distances from the construction site.

Water or other soil stabilizers can be used to control dust, resulting in emission reductions of 50 percent or more. The BAAQMD has established standard measures for reducing fugitive dust emissions (PM_{10}). With the implementation of these Basic Construction Mitigation Measures, fugitive dust emissions from construction activities would not result in adverse air quality impacts.

In addition to dust-related PM_{10} emissions, heavy trucks and construction equipment powered by gasoline and diesel engines would generate CO, SO_2, NO_x, ROG, and some soot particulate ($PM_{2.5}$ and PM_{10}) in exhaust emissions. If construction activities were to increase traffic congestion in the area, CO and other emissions from traffic would increase slightly while those vehicles idle in traffic. These emissions would be temporary in nature and limited to the immediate area surrounding the construction site.

As discussed above, CalEEMod was used to calculate emissions from on-site construction equipment and emissions from worker and vehicle trips to the site. Construction-related emissions are presented in Table A, below.

Table A: Project Construction Emissions (in Pounds Per Day)

Project Construction	ROG	NO_X	Exhaust PM_{10}	Fugitive Dust PM_{10}	Exhaust $PM_{2.5}$	Fugitive Dust $PM_{2.5}$
Average Daily Emissions	3.2	10.1	0.6	0.6	0.6	0.2
BAAQMD Thresholds	54.0	54.0	82.0	BMP	54.0	BMP
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Compiled by LSA (October 2022).
BAAQMD = Bay Area Air Quality Management District
BMP = best management practices
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter 2.5 microns or less in diameter
PM_{10} = particulate matter 10 microns or less in diameter
ROG = reactive organic gases

As shown in Table A, construction emissions associated with the project would not exceed the BAAQMD's thresholds for ROG, NO_x, CO, exhaust PM_{10}, and exhaust $PM_{2.5}$ emissions. In addition to the construction period thresholds of significance, the BAAQMD requires the implementation of Basic Construction Mitigation Measures to reduce construction fugitive dust impacts to a less than significant level. Implementation of Mitigation Measure AIR-1 would ensure that the proposed

project incorporates the Basic Construction Mitigation Measures and ensures that short-term construction period air quality impacts would be less than significant.

Mitigation Measure AIR-1 Consistent with the Bay Area Air Quality Management District (BAAQMD) Basic Construction Mitigation Measures, the following controls are required to be included as specifications for the proposed project and implemented at the construction site:

- All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
- All haul trucks transporting soil, sand, or other loose material off site shall be covered.
- All visible mud or dirt tracked-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
- All vehicle speeds on unpaved roads shall be limited to 15 miles per hour.
- All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible.
- Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
- Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California Airborne Toxics Control Measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
- All construction equipment shall be maintained and properly tuned in accordance with manufacturers' specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.
- A publicly-visible sign shall be posted with the telephone number and person to contact at the City of Newark regarding dust complaints. This person shall respond and take corrective action within 48 hours. The BAAQMD's phone number shall also be visible to ensure compliance with applicable regulations.

As shown in Table A, construction emissions associated with the project would not exceed the significance criteria for ROG, NO_x, PM_{10}, or $PM_{2.5}$ emissions. Therefore, with implementation of Mitigation Measure AIR-1, construction of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or State ambient air quality standards (AAQS).

Long-Term Operational Emissions. Long-term air pollutant emission impacts are those associated with mobile sources (e.g., vehicle trips), energy sources (e.g., natural gas), and area sources (e.g., architectural coatings and the use of landscape maintenance equipment) related to the proposed project.

PM_{10} emissions result from running exhaust, tire and brake wear, and the entrainment of dust into the atmosphere from vehicles traveling on paved roadways. Entrainment of PM_{10} occurs when vehicle tires pulverize small rocks and pavement, and the vehicle wakes generate airborne dust. The contribution of tire and brake wear is small compared to the other PM emission processes. Gasoline-powered engines have small rates of particulate matter emissions compared with diesel-powered vehicles.

Energy source emissions result from activities in buildings for which natural gas is used. The quantity of emissions is the product of usage intensity (i.e., the amount of natural gas). As discussed above, the proposed project would be all-electric and would not include natural gas. Therefore, the proposed project would not generate energy source emissions.

Area source emissions associated with the project would include emissions from the use of landscaping equipment.

Emission estimates for operation of the project were calculated using CalEEMod. The primary emissions associated with the project are regional in nature, meaning that air pollutants are rapidly dispersed on release or, in the case of vehicle emissions associated with the project, emissions are released in other areas of the Air Basin. The daily and annual emissions associated with project operational trip generation, energy, and area sources are identified in Table B for ROG, NO_x, PM_{10}, and $PM_{2.5}$.

The results shown in Table B indicate the project would not exceed the significance criteria for daily or annual ROG, NO_x, PM_{10}, and $PM_{2.5}$ emissions; therefore, operation of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or State AAQS.

Table B: Project Operational Emissions

	ROG	NO_x	PM_{10}	$PM_{2.5}$
Pounds per Day				
Area Source Emissions	2.1	0.1	<0.1	<0.1
Energy Source Emissions	0.0	0.0	0.0	0.0
Mobile Source Emissions	1.4	1.6	2.7	0.7
Total Emissions	**3.5**	**1.7**	**2.7**	**0.7**
BAAQMD Thresholds	54.0	54.0	82.0	54.0
Exceeds Threshold?	**No**	**No**	**No**	**No**
Tons per Year				
Area Source Emissions	0.4	<0.1	<0.1	<0.1
Energy Source Emissions	0.0	0.0	0.0	0.0
Mobile Source Emissions	0.2	0.3	0.5	0.1
Total Emissions	**0.6**	**0.3**	**0.5**	**0.1**
BAAQMD Thresholds	10.0	10.0	15.0	10.0
Exceeds Threshold?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (October 2022).
BAAQMD = Bay Area Air Quality Management District
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter 2.5 microns or less in diameter
PM_{10} = particulate matter 10 microns or less in diameter
ROG = reactive organic gases

Localized CO Impacts. Emissions and ambient concentrations of CO have decreased dramatically in the Bay Area with the introduction of the catalytic converter in 1975. No exceedances of the State or federal CO standards have been recorded at Bay Area monitoring stations since 1991. The BAAQMD's 2017 CEQA Guidelines include recommended methodologies for quantifying concentrations of localized CO levels for proposed transportation projects. A screening level analysis using guidance from the BAAQMD CEQA Guidelines was performed to determine the impacts of the project. The screening methodology provides a conservative indication of whether the implementation of a proposed project would result in significant CO emissions. According to the BAAQMD's CEQA Guidelines, a proposed project would result in a less than significant impact to localized CO concentrations if the following screening criteria are met:

- The project is consistent with an applicable congestion management program established by the county congestion management agency for designated roads or highways, and the regional transportation plan and local congestion management agency plans.

- Project traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour.

- The project would not increase traffic volumes at affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, or below-grade roadway).

Implementation of the proposed project would not conflict with the Alameda County Transportation Commission. The proposed project would generate approximately 31 net new AM peak hour trips and 33 net new PM peak hour trips; therefore, the project's contribution to peak-hour traffic

volumes at intersections in the vicinity of the project site would be well below 44,000 vehicles per hour. Therefore, the proposed project would not result in localized CO concentrations that exceed State or federal standards.

Health Risk on Nearby Sensitive Receptors

Sensitive receptors are defined as residential uses, schools, daycare centers, nursing homes, and medical centers. Individuals particularly vulnerable to diesel particulate matter are children, whose lung tissue is still developing, and the elderly, who may have serious health problems that can be aggravated by exposure to diesel particulate matter. Exposure from diesel exhaust associated with construction activity contributes to both cancer and chronic non-cancer health risks.

The closest receptors to the project site include single-family residences located approximately 120 feet south of the project site boundary across Cedar Boulevard. In addition, single-family residences are located approximately 270 feet north of the project site across I-880 and multi-family residential uses are located approximately 340 feet southeast of the project site along Cedar Court. The following sections describe the potential impacts on sensitive receptors from construction and operation of the proposed project.

Construction Health Risk to Nearby Sensitive Receptors. A construction HRA, which evaluates construction-period health risk to off-site receptors, was performed for the proposed project, and the analysis is presented below. Table C, below, identifies the results of the analysis assuming the use of Tier 3 construction equipment, as proposed by the project, at the maximally exposed individual (MEI), which is the nearest sensitive receptor. Model snapshots of the sources and results are shown in Attachment B.

Table C: Unmitigated Inhalation Health Risks from Project Construction to Off-Site Receptors

	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index	Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Maximally Exposed Individual	27.63	0.021	0.000	0.195
Threshold	**10.0**	**1.0**	**1.0**	**0.3**
Exceeds Threshold?	**Yes**	**No**	**No**	**No**

Source: Compiled by LSA (October 2022).
$\mu g/m^3$ = micrograms per cubic meter
$PM_{2.5}$ = particulate matter less than 2.5 microns in size

As shown in Table C, the risk associated with project construction at the MEI would be 27.63 in one million, which would exceed the BAAQMD cancer risk threshold of 10 in one million. The total chronic hazard index would be 0.021, which is below the threshold of 1.0. In addition, the total acute hazard index would be nominal (0.0), which would also not exceed the threshold of 1.0. The results of the analysis indicate that the total $PM_{2.5}$ concentration would be 0.195 micrograms per cubic meter ($\mu g/m^3$), which would also not exceed the BAAQMD significance threshold of 0.3 $\mu g/m^3$. Therefore, since cancer risk would exceed the BAAQMD's threshold, implementation of Mitigation

Measure AIR-2 would be required to reduce substantial pollutant concentrations during project construction.

Mitigation Measure AIR-2 During construction of the proposed project, the project contractor shall ensure all off-road diesel-powered construction equipment of 50 horsepower or more used for the project construction at a minimum meets the California Air Resources Board Tier 3 emissions standards with level 3 diesel particulate filters or equivalent.

Table D identifies the results of the analysis with implementation of Mitigation Measure AIR-2.

Table D: Mitigated Inhalation Health Risks from Project Construction to Off-Site Receptors

	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index	Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Maximally Exposed Individual	4.29	0.005	0.000	0.016
Threshold	**10.0**	**1.0**	**1.0**	**0.3**
Exceeds Threshold?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (October 2022).
$\mu g/m^3$ = micrograms per cubic meter
$PM_{2.5}$ = particulate matter less than 2.5 microns in size

As shown in Table D, the mitigated cancer risk at the MEI would be 4.29 in one million, which would not exceed the BAAQMD cancer risk of 10 in one million. Therefore, with implementation of Mitigation Measure AIR-2, construction of the proposed project would not exceed BAAQMD thresholds and would not expose nearby sensitive receptors to substantial pollutant concentrations.

Operational Health Risk to Future Residents. As described previously in the Methodology discussion, an operational HRA was performed to evaluate the potential health risks associated with the proposed project to on-site receptors. The operational HRA is presented below.

Mobile Sources. High volume roadways in the project vicinity could expose future residents on the project site to TACs. The project site is located adjacent to I-880. The operational HRA was conducted using several steps, as follows: (1) determine the PM_{10} emission factor; (2) determine source emission rates; (3) determine concentrations at the project site; (4) translate the PM_{10} concentrations into health risk values; and (5) compare the health risk values to BAAQMD thresholds to determine significance. The results of the HRA from I-880 traffic emission sources are shown in Table E.

Table E: Unmitigated Maximum Long-Term Health Risk Impacts from Mobile Sources to the Project Site

Source	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index	Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Traffic on I-880	53.95	0.312	0.019	0.052
Threshold	**10.0**	**1.0**	**1.0**	**0.30**
Exceed?	**Yes**	**No**	**No**	**No**

Source: LSA (October 2022).
$\mu g/m^3$ = micrograms per cubic meter
I-880 = Interstate 880
$PM_{2.5}$ = particulate matter less than 2.5 microns in size

Results of the analysis indicate that the MEI inhalation cancer risk associated with I-880 would be 53.95 in one million, which would exceed the BAAQMD threshold of 10 in one million. The maximum chronic hazard index would be 0.312, which would be below the BAAQMD significance threshold of 1.0. The maximum acute hazard index would be 0.019, which would be below the BAAQMD significance threshold of 1.0. In addition, the total $PM_{2.5}$ concentration would be 0.052 $\mu g/m^3$, which would also not exceed the BAAQMD significance threshold of 0.30 $\mu g/m^3$. As indicated above, the cancer risk of 53.95 in one million would exceed BAAQMD thresholds. Therefore, implementation of Mitigation Measure AIR-3 would be required to reduce substantial pollutant concentrations during project operation.

Mitigation Measure AIR-3

The following measures shall be required to reduce toxic air contaminants (TACs) and particulate matter indoors to a level sufficient to achieve compliance with BAAQMD health risk thresholds:

- The project applicant shall provide an HVAC system with a control efficiency sufficient to result in a reduction of a minimum 85 percent of particulates of 10 microns or less, such as Minimum Efficiency Reporting Value (MERV)-9 filters or greater, for indoor air filtration systems. The ventilation system shall be certified to achieve the stated performance effectiveness from indoor areas.

- The project applicant shall locate all air intakes as far away from Interstate 880 (I-880) as feasible.

- The project applicant shall disclose to potential occupants of the project that the proximity of the project site to the freeway could result in increased long-term health risks. The disclosure shall indicate the specifications for the installed air filtration system.

Table F identifies the results of the analysis with implementation of Mitigation Measure AIR-3.

Table F: Mitigated Maximum Long-Term Health Risk Impacts from Mobile Sources to the Project Site

Source	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index	Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
I-880	8.09	0.312	0.019	0.052
Threshold	**10.0**	**1.0**	**1.0**	**0.30**
Exceed?	**No**	**No**	**No**	**No**

Source: LSA (October 2022).
$\mu g/m^3$ = micrograms per cubic meter
I-880 = Interstate 880
$PM_{2.5}$ = particulate matter less than 2.5 microns in size

As shown in Table F, with implementation of Mitigation Measure AIR-3, the cancer risk would be 8.09 in one million for the MEI, which is below the BAAQMD cancer risk threshold of 10 in one million. Therefore, with implementation of Mitigation Measure AIR-3, traffic on I-880 would not expose future residents of the project site to health risk levels that would exceed the criteria established by the BAAQMD.

Stationary Sources. Implementation of the proposed project would allow new residential uses that would include sensitive receptors. LSA conducted a search of all stationary sources permitted by the BAAQMD within 1,000 feet of the project site. Using the BAAQMD Stationary Source Screening Analysis Tool, three stationary sources were identified within the project site vicinity. The results of the stationary source analysis are presented in Table G.

Table G: Stationary Sources within 1,000 Feet of the Project Site

Facility ID	Stationary Source (Type)	Distance (feet)	Adjusted Risk (in one million)	$PM_{2.5}$ Conc. ($\mu g/m^3$)	Hazard
23778	Golden State Auto Collision	60	ND	0.000	<0.001
8750	Bay Area Body Shop, 38472 Cedar Boulevard, Newark CA, 94560	390	0.001	0.001	0.006
17031	California Camper Repair, 38456	480	ND	0.000	<0.001
Maximum Health Risk			**0.001**	**0.001**	**0.006**
Total Health Risk			**0.001**	**0.001**	**0.006**
Single Source Threshold			**10 in one million**	**0.3**	**1.0**
Exceed?			No	No	No
BAAQMD Cumulative Threshold			**100 in one million**	**0.80**	**10.0**
Exceed?			No	No	No

Source: LSA (October 2022).
$\mu g/m^3$ = micrograms per cubic meter
BAAQMD = Bay Area Air Quality Management District
ND = no data
$PM_{2.5}$ = particulate matter less than 2.5 microns in size

As shown in Table G, the highest risk would be 0.001 in one million, which would not exceed the BAAQMD cancer risk threshold of 10 in one million. The highest hazard index would be 0.006, which is below the threshold of 1.0. The results of the analysis also indicate that the highest $PM_{2.5}$ concentration would be 0.001, which would not exceed the BAAQMD significance threshold of 0.3 µg/m^3. The BAAQMD cumulative threshold of cancer risk greater than 100.0 in one million, an increased non-cancer risk of greater than 10.0 on the hazard index (chronic), or an ambient $PM_{2.5}$ increase greater than 0.8 µg/m^3 on an annual average basis would not be exceeded. Therefore, implementation of the project would not expose sensitive receptors to substantial pollutant concentrations associated with nearby stationary sources.

Cumulative TAC Analysis. The cumulative analysis sums all sources of emissions in the vicinity of the project site including stationary source and mobile sources. The cumulative cancer risk, hazard index, acute index and $PM_{2.5}$ concentrations are shown in Table H. Results of the cumulative analysis indicate the proposed project would not exceed BAAQMD cumulative thresholds and would not expose future residents of the project site to significant cumulative health risks.

Table H: Mitigated Cumulative Risk from All Sources

	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index	Annual $PM_{2.5}$ Concentration (µg/m^3)
Traffic on I-880	8.09	0.312	0.019	0.052
Stationary Sources	0.001	0.006	0.000	0.001
Mitigated Total	**8.091**	**0.318**	**0.019**	**0.053**
Threshold	**100.0**	**10.0**	**10.0**	**0.80**
Exceed?	**No**	**No**	**No**	**No**

Source: LSA (June 2021).
µg/m^3 = micrograms per cubic meter
I-880 = Interstate 880
$PM_{2.5}$ = particulate matter less than 2.5 microns in size

As discussed above, with implementation of Mitigation Measure AIR-3, exposure to roadway emissions, diesel particulate matter, and stationary source emissions at the proposed residential units on the project site would not result in a maximum exposure of future residents to a risk level that would exceed the criterion of significance for cancer health risk at the individual or cumulative level. As such, the project would not expose future residents to substantial pollutant concentrations that would cause harmful effects. Therefore, with implementation of Mitigation Measure AIR-3, future residents of the project site would not be exposed to a substantial increase in health risk impacts from stationary sources of toxic air contaminants in the project vicinity.

Objectionable Odors

During construction, the various diesel-powered vehicles and equipment in use on site would create localized odors. These odors would be temporary and are not likely to be noticeable for extended periods of time beyond the project site. Additionally, the proposed uses that would be developed

within the project site are not expected to produce any offensive odors that would result in frequent odor complaints.

Greenhouse Gas Emissions

Generate Greenhouse Gas Emissions

As discussed above, a project would have a less than significant impact related to GHG emissions if it would include the project design elements related to natural gas, energy, VMT, and electric vehicles or if it would be consistent with a local GHG reduction strategy that meets the criteria under *State CEQA Guidelines* Section 15183.5(b). The City's CAP does not meet these requirements. Therefore, this section evaluates the proposed project's consistency with the BAAQMD's project design elements.

Natural Gas Usage. According to the BAAQMD, a less than significant GHG impact would occur if the project does not include natural gas appliances or natural gas plumbing. As discussed in the Project Description, the proposed project would be all-electric and would not include natural gas. Since the proposed project would not include natural gas, the proposed project would be consistent with this design element.

Energy Usage. The project must not result in any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under Section 21100(b)(3) and Section 15126.2(b) of the *State CEQA Guidelines*. Energy use consumed by the proposed project would be associated with electricity consumption associated with the project. Energy consumption was estimated for the project using default energy intensities by land use type in the CalEEMod output, which is included in Attachment A.

Based on CalEEMod, the estimated potential increased electricity demand associated with the proposed project is 373,089 kilowatt-hours (kWh) per year. Total electricity consumption in Alameda County consumed 10,247 GWh or 10,247,410,444 kWh.[1] Therefore, electricity demand associated with the proposed project would be less than 0.1 percent of Alameda County's total electricity demand. Therefore, operation of the proposed project would increase the annual electricity consumption in Alameda County by less than 0.01 percent.

The proposed project would include solar and would be constructed to current Title 24 standards, which would require energy-saving building features. As such, based on this analysis, as required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the *State CEQA Guidelines*, the proposed project would not result in the wasteful, inefficient, or unnecessary consumption of fuel or energy and would incorporate renewable energy and energy efficiency measures into the building design, equipment use, and transportation. As such, the proposed project would be consistent with this design element.

[1] California Energy Commission (CEC). 2021. Energy Consumption Data Management Service. Electricity Consumption by County. Website: www.ecdms.energy.ca.gov/elecbycounty.aspx (accessed October 2022).

Vehicle Miles Traveled. To meet the BAAQMD's VMT threshold, the project must achieve a reduction in project-generated VMT below the regional average consistent with the current version of the California Climate Change Scoping Plan or meet a locally adopted SB 743 VMT target, reflecting the recommendations provided in the Governor's Office of Planning and Research's (OPR) 2018 *Technical Advisory on Evaluating Transportation Impacts in CEQA*. Based on the project's Vehicle Miles Traveled Analysis[1], the project would have a less than significant VMT impact if the project's VMT would be 15 percent below the City's average residential VMT. The existing base year per capita VMT in the project area is 23.24. With the proposed project, the average daily VMT per resident results in a VMT per capita of 18.43, a decrease of 4.81. Since 18.43 is lower than the 85 percent threshold of 19.21, the proposed project would have a less than significant VMT impact. As such, the proposed project would be consistent with this design element.

Electric Vehicle Requirements. This criterion requires that the project achieve compliance with off-street electric vehicle requirements in the most recently adopted version of the California Green Buildings Standards Code (CALGreen) Tier 2 measures. It is not yet known whether the proposed project would include electric vehicle charging; therefore, implementation of Mitigation Measure GHG-1 would be required to ensure the proposed project would provide electric vehicle charging. With implementation of Mitigation Measure GHG-1, the proposed project would be consistent with this design element.

Mitigation Measure GHG-1 The project applicant shall provide a minimum of 10 percent of the parking spaces as electric vehicle (EV) charging stations as part of the final project design, to be consistent with current California Green Buildings Standards Code (CALGreen) Tier 2 standards. The final design including these revisions shall be incorporated.

With implementation of Mitigation Measure GHG-1, the proposed project would be consistent with the BAAQMD's project design elements related to natural gas, energy, VMT and electric vehicles. Therefore, the proposed project would be consistent with the BAAQMD's GHG emission thresholds. As such, the proposed project would not result in the generation of GHG emissions would have a significant impact on the environment.

Consistency with Greenhouse Gas Reduction Plans

As discussed above, the City of Newark has prepared a CAP which outlines the City's proposed approach to reduce GHG emissions. The CAP includes a roadmap for implementing new polices, programs, incentives, requirements, projects, and initiatives in the immediate future, as well as longer-term actions that will need to be studied further while monitoring how the climate continues to change and evaluating the effectiveness of actions taken. The CAP includes action items to be implemented by the City, individual residential households, and businesses. Since the CAP action items are applicable to residential households, such as preparing personal climate action plans, they would not be applicable to the proposed project.

[1] TJKM, 2022. *Cedar Townhomes VMT Analysis Memo.* October 14.

Therefore, the proposed project was analyzed for consistency with the goals of the 2017 Scoping Plan, EO B-30-15, SB 32, and AB 197.

EO B-30-15 added the immediate target of reducing GHG emissions to 40 percent below 1990 levels by 2030. CARB released the 2017 Scoping Plan,[1] to reflect the 2030 target set by EO B-30-15 and codified by SB 32. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in EO B-30-15. SB 32 builds on AB 32 and keeps us on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels. The companion bill to SB 32, AB 197, provides additional direction to the CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 intended to provide easier public access to air emissions data that are collected by CARB was posted in December 2016.

The Draft 2022 Scoping Plan Update[2] assesses progress toward the statutory 2030 target, while laying out a path to achieving carbon neutrality no later than 2045. The 2022 Scoping Plan Update focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

As identified above, the 2017 Scoping Plan contains GHG reduction measures that work towards reducing GHG emissions, consistent with the targets set by EO B-30-15 and codified by SB 32 and AB 197. The measures applicable to the proposed project include energy efficiency measures, water conservation and efficiency measures, and transportation and motor vehicle measures, as discussed below.

Energy efficient measures are intended to maximize energy efficiency building and appliance standards, pursue additional efficiency efforts, including new technologies and new policy and implementation mechanisms, and pursue comparable investment in energy efficiency from all retail providers of electricity in California. In addition, these measures are designed to expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings. The proposed project would be required to comply with the latest Title 24 standards of the California Code of Regulations, regarding energy conservation and green building standards. In addition, the proposed project would be all-electric and would not include natural gas and would include solar. Therefore, the proposed project would comply with applicable energy measures.

Water conservation and efficiency measures are intended to continue efficiency programs and use cleaner energy sources to move and treat water. Increasing the efficiency of water transport and reducing water use would reduce GHG emissions. As noted above, the project would be required to comply with the latest Title 24 standards of the California Code of Regulations, which include a variety of different measures, including reduction of wastewater and water use. In addition, the proposed project would include low flow fixtures, drought tolerant landscaping, and non-potable

1 CARB. 2017. *California's 2017 Climate Change Scoping Plan*. November.

2 CARB. 2021. op. cit.

common area irrigation water. Therefore, the proposed project would not conflict with any of the water conservation and efficiency measures.

The goal of transportation and motor vehicle measures is to develop regional GHG emissions reduction targets for passenger vehicles. Specific regional emission targets for transportation emissions would not directly apply to the proposed project. The second phase of Pavley standards will reduce GHG emissions from new cars by 34 percent from 2016 levels by 2025, resulting in a 3 percent decrease in average vehicle emissions for all vehicles by 2020. Vehicles traveling to the project site would comply with the Pavley II (LEV III) Advanced Clean Cars Program. Therefore, the proposed project would not conflict with the identified transportation and motor vehicle measures.

Therefore, the proposed project would comply with existing State regulations adopted to achieve the overall GHG emissions reduction goals identified in the 2017 Scoping Plan, EO B-30-15, SB 32, and AB 197 and would be consistent with applicable plans and programs designed to reduce GHG emissions. Therefore, the proposed project would not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs.

CONCLUSION

Based on the analysis presented above, with implementation of Mitigation Measure AIR-1, construction of the proposed project would not result in the generation of criteria air pollutants that would exceed BAAQMD thresholds of significance. Operational emissions associated with the proposed project would also not exceed BAAQMD established significance thresholds. With implementation of Mitigation Measures AIR-2 and AIR-3, the proposed project is not expected to expose sensitive receptors to substantial pollutant concentrations. The proposed project would also not result in objectionable odors affecting a substantial number of people. In addition, with implementation of Mitigation Measure GHG-1, the project would not result in the emission of substantial GHG emissions. Additionally, the project would not conflict with the State's GHG emissions reductions objectives embodied in EO B-30-15, SB 32, and AB 197. Therefore, the proposed project's incremental contribution to cumulative GHG emissions would not be cumulatively considerable.

Attachments: A: CalEEMod Output Sheets
B: HRA Model Snapshots and Output

ATTACHMENT A

CALEEMOD OUTPUT SHEETS

Cedar Townhomes - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Cedar Townhomes

Alameda County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	38.00	Space	0.34	15,200.00	0
City Park	0.48	Acre	0.48	20,908.80	0
Condo/Townhouse	76.00	Dwelling Unit	2.90	76,000.00	217

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	63
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - total project site of 3.72 acres. Project would include 152 garage parking spaces and 38 surface parking spaces.

Construction Phase - Project construction would begin the fourth quarter of 2023 and would end in 2024. This analysis assumes default construction durations.

Off-road Equipment - Default

Demolition - The proposed project would demolish the existing onsite buildings totaling 34,219 sf.

Grading - Assuming a balanced site.

Vehicle Trips - The trip rate is based on the trip generation analysis prepared for the proposed project.

Energy Use - The proposed project would not include natural gas.

Construction Off-road Equipment Mitigation - Assuming compliance with BAAQMD Basic Construction Mitigation Measures and the use of Tier 3 construction equipment.

Cedar Townhomes - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water Mitigation - The proposed project would install low-flow fixtures, drought-tolerant landscaping, and water-efficient irrigation.

Woodstoves - Assuming no woodstoves or fireplaces as the project would be all-electric.

Area Mitigation - Assuming no woodstoves or fireplaces as the project would be all-electric.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Cedar Townhomes - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	T24NG	18,214.40	0.00
tblFireplaces	NumberGas	11.40	0.00
tblFireplaces	NumberNoFireplace	3.04	76.00
tblFireplaces	NumberWood	12.92	0.00
tblLandUse	LotAcreage	4.75	2.90
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	7.20
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	7.20
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	7.20
tblWoodstoves	NumberCatalytic	1.52	0.00
tblWoodstoves	NumberNoncatalytic	1.52	0.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0653	0.6081	0.5968	1.2200e-003	0.1080	0.0276	0.1356	0.0452	0.0258	0.0710	0.0000	107.2110	107.2110	0.0248	1.6000e-003	108.3099
2024	0.7129	1.4888	1.8948	3.6100e-003	0.0663	0.0655	0.1318	0.0179	0.0616	0.0794	0.0000	316.0754	316.0754	0.0606	5.1200e-003	319.1171
Maximum	**0.7129**	**1.4888**	**1.8948**	**3.6100e-003**	**0.1080**	**0.0655**	**0.1356**	**0.0452**	**0.0616**	**0.0794**	**0.0000**	**316.0754**	**316.0754**	**0.0606**	**5.1200e-003**	**319.1171**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0292	0.5403	0.7019	1.2200e-003	0.0561	0.0287	0.0848	0.0224	0.0287	0.0510	0.0000	107.2109	107.2109	0.0248	1.6000e-003	108.3098
2024	0.6289	1.5748	2.0758	3.6100e-003	0.0663	0.0957	0.1620	0.0179	0.0956	0.1135	0.0000	316.0752	316.0752	0.0606	5.1200e-003	319.1168
Maximum	**0.6289**	**1.5748**	**2.0758**	**3.6100e-003**	**0.0663**	**0.0957**	**0.1620**	**0.0224**	**0.0956**	**0.1135**	**0.0000**	**316.0752**	**316.0752**	**0.0606**	**5.1200e-003**	**319.1168**

Cedar Townhomes - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**15.44**	**-0.87**	**-11.48**	**0.00**	**29.76**	**-33.49**	**7.73**	**36.22**	**-42.28**	**-9.39**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**10-2-2023**	**1-1-2024**	0.6751	0.5728
2	**1-2-2024**	**4-1-2024**	0.5156	0.5151
3	**4-2-2024**	**7-1-2024**	0.5136	0.5131
4	**7-2-2024**	**9-30-2024**	0.5136	0.5131
		Highest	0.6751	0.5728

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3688	6.5000e-003	0.5644	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9225	0.9225	8.9000e-004	0.0000	0.9446
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	34.5196	34.5196	5.5800e-003	6.8000e-004	34.8609
Mobile	0.2228	0.2775	2.0607	4.4300e-003	0.4663	3.3300e-003	0.4696	0.1246	3.1000e-003	0.1277	0.0000	409.2183	409.2183	0.0264	0.0215	416.2747
Waste						0.0000	0.0000		0.0000	0.0000	7.1047	0.0000	7.1047	0.4199	0.0000	17.6016
Water						0.0000	0.0000		0.0000	0.0000	1.5710	3.6752	5.2461	0.1620	3.8800e-003	10.4516
Total	**0.5916**	**0.2840**	**2.6251**	**4.4600e-003**	**0.4663**	**6.4600e-003**	**0.4727**	**0.1246**	**6.2300e-003**	**0.1308**	**8.6756**	**448.3355**	**457.0111**	**0.6147**	**0.0260**	**480.1333**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3688	6.5000e-003	0.5644	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9225	0.9225	8.9000e-004	0.0000	0.9446
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	34.5196	34.5196	5.5800e-003	6.8000e-004	34.8609
Mobile	0.2228	0.2775	2.0607	4.4300e-003	0.4663	3.3300e-003	0.4696	0.1246	3.1000e-003	0.1277	0.0000	409.2183	409.2183	0.0264	0.0215	416.2747
Waste						0.0000	0.0000		0.0000	0.0000	7.1047	0.0000	7.1047	0.4199	0.0000	17.6016
Water						0.0000	0.0000		0.0000	0.0000	1.2568	3.1064	4.3632	0.1296	3.1100e-003	8.5292
Total	**0.5916**	**0.2840**	**2.6251**	**4.4600e-003**	**0.4663**	**6.4600e-003**	**0.4727**	**0.1246**	**6.2300e-003**	**0.1308**	**8.3614**	**447.7667**	**456.1282**	**0.5823**	**0.0253**	**478.2109**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**3.62**	**0.13**	**0.19**	**5.27**	**2.96**	**0.40**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/2/2023	10/27/2023	5	20	
2	Site Preparation	Site Preparation	10/28/2023	11/3/2023	5	5	
3	Grading	Grading	11/4/2023	11/15/2023	5	8	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Building Construction	Building Construction	11/16/2023	10/2/2024	5	230	
5	Paving	Paving	10/3/2024	10/28/2024	5	18	
6	Architectural Coating	Architectural Coating	10/29/2024	11/21/2024	5	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.34

Residential Indoor: 153,900; Residential Outdoor: 51,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 912 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	156.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	70.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0168	0.0000	0.0168	2.5500e-003	0.0000	2.5500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0227	0.2148	0.1964	3.9000e-004		9.9800e-003	9.9800e-003		9.2800e-003	9.2800e-003	0.0000	33.9921	33.9921	9.5200e-003	0.0000	34.2301
Total	**0.0227**	**0.2148**	**0.1964**	**3.9000e-004**	**0.0168**	**9.9800e-003**	**0.0268**	**2.5500e-003**	**9.2800e-003**	**0.0118**	**0.0000**	**33.9921**	**33.9921**	**9.5200e-003**	**0.0000**	**34.2301**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	0.0103	2.3300e-003	5.0000e-005	1.3200e-003	9.0000e-005	1.4100e-003	3.6000e-004	8.0000e-005	4.5000e-004	0.0000	4.5450	4.5450	1.0000e-004	7.2000e-004	4.7614
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.7000e-004	3.3400e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9235	0.9235	3.0000e-005	3.0000e-005	0.9319
Total	**5.5000e-004**	**0.0105**	**5.6700e-003**	**6.0000e-005**	**2.5100e-003**	**1.0000e-004**	**2.6000e-003**	**6.8000e-004**	**9.0000e-005**	**7.7000e-004**	**0.0000**	**5.4685**	**5.4685**	**1.3000e-004**	**7.5000e-004**	**5.6933**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5800e-003	0.0000	7.5800e-003	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2500e-003	0.1831	0.2467	3.9000e-004		8.6300e-003	8.6300e-003		8.6300e-003	8.6300e-003	0.0000	33.9920	33.9920	9.5200e-003	0.0000	34.2300
Total	**9.2500e-003**	**0.1831**	**0.2467**	**3.9000e-004**	**7.5800e-003**	**8.6300e-003**	**0.0162**	**1.1500e-003**	**8.6300e-003**	**9.7800e-003**	**0.0000**	**33.9920**	**33.9920**	**9.5200e-003**	**0.0000**	**34.2300**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	0.0103	2.3300e-003	5.0000e-005	1.3200e-003	9.0000e-005	1.4100e-003	3.6000e-004	8.0000e-005	4.5000e-004	0.0000	4.5450	4.5450	1.0000e-004	7.2000e-004	4.7614
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.7000e-004	3.3400e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9235	0.9235	3.0000e-005	3.0000e-005	0.9319
Total	**5.5000e-004**	**0.0105**	**5.6700e-003**	**6.0000e-005**	**2.5100e-003**	**1.0000e-004**	**2.6000e-003**	**6.8000e-004**	**9.0000e-005**	**7.7000e-004**	**0.0000**	**5.4685**	**5.4685**	**1.3000e-004**	**7.5000e-004**	**5.6933**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0688	0.0456	1.0000e-004		3.1700e-003	3.1700e-003		2.9100e-003	2.9100e-003	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
Total	**6.6500e-003**	**0.0688**	**0.0456**	**1.0000e-004**	**0.0491**	**3.1700e-003**	**0.0523**	**0.0253**	**2.9100e-003**	**0.0282**	**0.0000**	**8.3627**	**8.3627**	**2.7000e-003**	**0.0000**	**8.4303**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	1.0000e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2770	0.2770	1.0000e-005	1.0000e-005	0.2796
Total	**1.2000e-004**	**8.0000e-005**	**1.0000e-003**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2770**	**0.2770**	**1.0000e-005**	**1.0000e-005**	**0.2796**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0221	0.0000	0.0221	0.0114	0.0000	0.0114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0477	0.0574	1.0000e-004		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
Total	**2.3300e-003**	**0.0477**	**0.0574**	**1.0000e-004**	**0.0221**	**2.3700e-003**	**0.0245**	**0.0114**	**2.3700e-003**	**0.0137**	**0.0000**	**8.3627**	**8.3627**	**2.7000e-003**	**0.0000**	**8.4303**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	1.0000e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2770	0.2770	1.0000e-005	1.0000e-005	0.2796
Total	**1.2000e-004**	**8.0000e-005**	**1.0000e-003**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2770**	**0.2770**	**1.0000e-005**	**1.0000e-005**	**0.2796**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0283	0.0000	0.0283	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8400e-003	0.0717	0.0590	1.2000e-004		3.1000e-003	3.1000e-003		2.8500e-003	2.8500e-003	0.0000	10.4243	10.4243	3.3700e-003	0.0000	10.5085
Total	**6.8400e-003**	**0.0717**	**0.0590**	**1.2000e-004**	**0.0283**	**3.1000e-003**	**0.0314**	**0.0137**	**2.8500e-003**	**0.0166**	**0.0000**	**10.4243**	**10.4243**	**3.3700e-003**	**0.0000**	**10.5085**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.3300e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3694	0.3694	1.0000e-005	1.0000e-005	0.3728
Total	**1.6000e-004**	**1.1000e-004**	**1.3300e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3694**	**0.3694**	**1.0000e-005**	**1.0000e-005**	**0.3728**

Cedar Townhomes - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0128	0.0000	0.0128	6.1600e-003	0.0000	6.1600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9100e-003	0.0594	0.0760	1.2000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	10.4242	10.4242	3.3700e-003	0.0000	10.5085
Total	**2.9100e-003**	**0.0594**	**0.0760**	**1.2000e-004**	**0.0128**	**3.0200e-003**	**0.0158**	**6.1600e-003**	**3.0200e-003**	**9.1800e-003**	**0.0000**	**10.4242**	**10.4242**	**3.3700e-003**	**0.0000**	**10.5085**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.3300e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3694	0.3694	1.0000e-005	1.0000e-005	0.3728
Total	**1.6000e-004**	**1.1000e-004**	**1.3300e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3694**	**0.3694**	**1.0000e-005**	**1.0000e-005**	**0.3728**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0252	0.2302	0.2599	4.3000e-004		0.0112	0.0112		0.0105	0.0105	0.0000	37.0888	37.0888	8.8200e-003	0.0000	37.3093
Total	**0.0252**	**0.2302**	**0.2599**	**4.3000e-004**		**0.0112**	**0.0112**		**0.0105**	**0.0105**	**0.0000**	**37.0888**	**37.0888**	**8.8200e-003**	**0.0000**	**37.3093**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-004	9.7900e-003	2.9600e-003	4.0000e-005	1.4700e-003	6.0000e-005	1.5300e-003	4.3000e-004	6.0000e-005	4.8000e-004	0.0000	4.3331	4.3331	6.0000e-005	6.5000e-004	4.5279
Worker	2.9300e-003	2.0100e-003	0.0249	8.0000e-005	8.8600e-003	5.0000e-005	8.9000e-003	2.3600e-003	4.0000e-005	2.4000e-003	0.0000	6.8953	6.8953	2.1000e-004	1.9000e-004	6.9581
Total	**3.1600e-003**	**0.0118**	**0.0279**	**1.2000e-004**	**0.0103**	**1.1000e-004**	**0.0104**	**2.7900e-003**	**1.0000e-004**	**2.8800e-003**	**0.0000**	**11.2284**	**11.2284**	**2.7000e-004**	**8.4000e-004**	**11.4861**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0108	0.2276	0.2860	4.3000e-004		0.0145	0.0145		0.0145	0.0145	0.0000	37.0887	37.0887	8.8200e-003	0.0000	37.3093
Total	**0.0108**	**0.2276**	**0.2860**	**4.3000e-004**		**0.0145**	**0.0145**		**0.0145**	**0.0145**	**0.0000**	**37.0887**	**37.0887**	**8.8200e-003**	**0.0000**	**37.3093**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-004	9.7900e-003	2.9600e-003	4.0000e-005	1.4700e-003	6.0000e-005	1.5300e-003	4.3000e-004	6.0000e-005	4.8000e-004	0.0000	4.3331	4.3331	6.0000e-005	6.5000e-004	4.5279
Worker	2.9300e-003	2.0100e-003	0.0249	8.0000e-005	8.8600e-003	5.0000e-005	8.9000e-003	2.3600e-003	4.0000e-005	2.4000e-003	0.0000	6.8953	6.8953	2.1000e-004	1.9000e-004	6.9581
Total	**3.1600e-003**	**0.0118**	**0.0279**	**1.2000e-004**	**0.0103**	**1.1000e-004**	**0.0104**	**2.7900e-003**	**1.0000e-004**	**2.8800e-003**	**0.0000**	**11.2284**	**11.2284**	**2.7000e-004**	**8.4000e-004**	**11.4861**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1457	1.3309	1.6005	2.6700e-003		0.0607	0.0607		0.0571	0.0571	0.0000	229.5306	229.5306	0.0543	0.0000	230.8876
Total	**0.1457**	**1.3309**	**1.6005**	**2.6700e-003**		**0.0607**	**0.0607**		**0.0571**	**0.0571**	**0.0000**	**229.5306**	**229.5306**	**0.0543**	**0.0000**	**230.8876**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3700e-003	0.0608	0.0180	2.7000e-004	9.1100e-003	3.7000e-004	9.4700e-003	2.6300e-003	3.5000e-004	2.9900e-003	0.0000	26.3975	26.3975	3.6000e-004	3.9600e-003	27.5853
Worker	0.0169	0.0111	0.1437	4.5000e-004	0.0548	2.7000e-004	0.0551	0.0146	2.5000e-004	0.0148	0.0000	41.2842	41.2842	1.1500e-003	1.1200e-003	41.6461
Total	**0.0183**	**0.0719**	**0.1617**	**7.2000e-004**	**0.0639**	**6.4000e-004**	**0.0645**	**0.0172**	**6.0000e-004**	**0.0178**	**0.0000**	**67.6817**	**67.6817**	**1.5100e-003**	**5.0800e-003**	**69.2313**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0667	1.4084	1.7695	2.6700e-003		0.0895	0.0895		0.0895	0.0895	0.0000	229.5303	229.5303	0.0543	0.0000	230.8873
Total	**0.0667**	**1.4084**	**1.7695**	**2.6700e-003**		**0.0895**	**0.0895**		**0.0895**	**0.0895**	**0.0000**	**229.5303**	**229.5303**	**0.0543**	**0.0000**	**230.8873**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3700e-003	0.0608	0.0180	2.7000e-004	9.1100e-003	3.7000e-004	9.4700e-003	2.6300e-003	3.5000e-004	2.9900e-003	0.0000	26.3975	26.3975	3.6000e-004	3.9600e-003	27.5853
Worker	0.0169	0.0111	0.1437	4.5000e-004	0.0548	2.7000e-004	0.0551	0.0146	2.5000e-004	0.0148	0.0000	41.2842	41.2842	1.1500e-003	1.1200e-003	41.6461
Total	**0.0183**	**0.0719**	**0.1617**	**7.2000e-004**	**0.0639**	**6.4000e-004**	**0.0645**	**0.0172**	**6.0000e-004**	**0.0178**	**0.0000**	**67.6817**	**67.6817**	**1.5100e-003**	**5.0800e-003**	**69.2313**

Cedar Townhomes - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.9300e-003	0.0745	0.1100	1.7000e-004		3.5900e-003	3.5900e-003		3.3200e-003	3.3200e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581
Paving	4.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.3800e-003**	**0.0745**	**0.1100**	**1.7000e-004**		**3.5900e-003**	**3.5900e-003**		**3.3200e-003**	**3.3200e-003**	**0.0000**	**14.7423**	**14.7423**	**4.6300e-003**	**0.0000**	**14.8581**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.9000e-004	3.7300e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0723	1.0723	3.0000e-005	3.0000e-005	1.0817
Total	**4.4000e-004**	**2.9000e-004**	**3.7300e-003**	**1.0000e-005**	**1.4200e-003**	**1.0000e-005**	**1.4300e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.0723**	**1.0723**	**3.0000e-005**	**3.0000e-005**	**1.0817**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9500e-003	0.0818	0.1218	1.7000e-004		4.7200e-003	4.7200e-003		4.7200e-003	4.7200e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581
Paving	4.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.4000e-003**	**0.0818**	**0.1218**	**1.7000e-004**		**4.7200e-003**	**4.7200e-003**		**4.7200e-003**	**4.7200e-003**	**0.0000**	**14.7423**	**14.7423**	**4.6300e-003**	**0.0000**	**14.8581**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.9000e-004	3.7300e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0723	1.0723	3.0000e-005	3.0000e-005	1.0817
Total	**4.4000e-004**	**2.9000e-004**	**3.7300e-003**	**1.0000e-005**	**1.4200e-003**	**1.0000e-005**	**1.4300e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.0723**	**1.0723**	**3.0000e-005**	**3.0000e-005**	**1.0817**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
Total	**0.5398**	**0.0110**	**0.0163**	**3.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.5000e-004**	**5.5000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.3000e-004**	**0.0000**	**2.3012**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.0000e-004	2.6100e-003	1.0000e-005	1.0000e-003	0.0000	1.0000e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7506	0.7506	2.0000e-005	2.0000e-005	0.7572
Total	**3.1000e-004**	**2.0000e-004**	**2.6100e-003**	**1.0000e-005**	**1.0000e-003**	**0.0000**	**1.0000e-003**	**2.7000e-004**	**0.0000**	**2.7000e-004**	**0.0000**	**0.7506**	**0.7506**	**2.0000e-005**	**2.0000e-005**	**0.7572**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3000e-004	0.0122	0.0165	3.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
Total	**0.5387**	**0.0122**	**0.0165**	**3.0000e-005**		**8.6000e-004**	**8.6000e-004**		**8.6000e-004**	**8.6000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.3000e-004**	**0.0000**	**2.3012**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.0000e-004	2.6100e-003	1.0000e-005	1.0000e-003	0.0000	1.0000e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7506	0.7506	2.0000e-005	2.0000e-005	0.7572
Total	**3.1000e-004**	**2.0000e-004**	**2.6100e-003**	**1.0000e-005**	**1.0000e-003**	**0.0000**	**1.0000e-003**	**2.7000e-004**	**0.0000**	**2.7000e-004**	**0.0000**	**0.7506**	**0.7506**	**2.0000e-005**	**2.0000e-005**	**0.7572**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2228	0.2775	2.0607	4.4300e-003	0.4663	3.3300e-003	0.4696	0.1246	3.1000e-003	0.1277	0.0000	409.2183	409.2183	0.0264	0.0215	416.2747
Unmitigated	0.2228	0.2775	2.0607	4.4300e-003	0.4663	3.3300e-003	0.4696	0.1246	3.1000e-003	0.1277	0.0000	409.2183	409.2183	0.0264	0.0215	416.2747

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	547.20	547.20	547.20	1,263,817	1,263,817
Parking Lot	0.00	0.00	0.00		
Total	547.20	547.20	547.20	1,263,817	1,263,817

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451
Condo/Townhouse	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451
Parking Lot	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	34.5196	34.5196	5.5800e-003	6.8000e-004	34.8609
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	34.5196	34.5196	5.5800e-003	6.8000e-004	34.8609
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Cedar Townhomes - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Cedar Townhomes - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	367769	34.0273	5.5000e-003	6.7000e-004	34.3638
Parking Lot	5320	0.4922	8.0000e-005	1.0000e-005	0.4971
Total		**34.5196**	**5.5800e-003**	**6.8000e-004**	**34.8609**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	367769	34.0273	5.5000e-003	6.7000e-004	34.3638
Parking Lot	5320	0.4922	8.0000e-005	1.0000e-005	0.4971
Total		**34.5196**	**5.5800e-003**	**6.8000e-004**	**34.8609**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3688	6.5000e-003	0.5644	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9225	0.9225	8.9000e-004	0.0000	0.9446
Unmitigated	0.3688	6.5000e-003	0.5644	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9225	0.9225	8.9000e-004	0.0000	0.9446

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0538					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2980					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0170	6.5000e-003	0.5644	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9225	0.9225	8.9000e-004	0.0000	0.9446
Total	**0.3688**	**6.5000e-003**	**0.5644**	**3.0000e-005**		**3.1300e-003**	**3.1300e-003**		**3.1300e-003**	**3.1300e-003**	**0.0000**	**0.9225**	**0.9225**	**8.9000e-004**	**0.0000**	**0.9446**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0538					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2980					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0170	6.5000e-003	0.5644	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9225	0.9225	8.9000e-004	0.0000	0.9446
Total	**0.3688**	**6.5000e-003**	**0.5644**	**3.0000e-005**		**3.1300e-003**	**3.1300e-003**		**3.1300e-003**	**3.1300e-003**	**0.0000**	**0.9225**	**0.9225**	**8.9000e-004**	**0.0000**	**0.9446**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.3632	0.1296	3.1100e-003	8.5292
Unmitigated	5.2461	0.1620	3.8800e-003	10.4516

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.571911	0.1852	3.0000e-005	0.0000	0.1870
Condo/Townhouse	4.95171 / 3.12173	5.0609	0.1619	3.8800e-003	10.2646
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**5.2461**	**0.1620**	**3.8800e-003**	**10.4516**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.537024	0.1739	3.0000e-005	0.0000	0.1756
Condo/Townhouse	3.96136 / 2.9313	4.1893	0.1296	3.1100e-003	8.3536
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**4.3632**	**0.1296**	**3.1100e-003**	**8.5292**

8.0 Waste Detail

8.1 Mitigation Measures Waste

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.1047	0.4199	0.0000	17.6016
Unmitigated	7.1047	0.4199	0.0000	17.6016

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.04	8.1200e-003	4.8000e-004	0.0000	0.0201
Condo/Townhouse	34.96	7.0966	0.4194	0.0000	17.5814
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**7.1047**	**0.4199**	**0.0000**	**17.6016**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.04	8.1200e-003	4.8000e-004	0.0000	0.0201
Condo/Townhouse	34.96	7.0966	0.4194	0.0000	17.5814
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**7.1047**	**0.4199**	**0.0000**	**17.6016**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

11.0 Vegetation

Cedar Townhomes - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Cedar Townhomes

Alameda County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	38.00	Space	0.34	15,200.00	0
City Park	0.48	Acre	0.48	20,908.80	0
Condo/Townhouse	76.00	Dwelling Unit	2.90	76,000.00	217

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	63
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - total project site of 3.72 acres. Project would include 152 garage parking spaces and 38 surface parking spaces.

Construction Phase - Project construction would begin the fourth quarter of 2023 and would end in 2024. This analysis assumes default construction durations.

Off-road Equipment - Default

Demolition - The proposed project would demolish the existing onsite buildings totaling 34,219 sf.

Grading - Assuming a balanced site.

Vehicle Trips - The trip rate is based on the trip generation analysis prepared for the proposed project.

Energy Use - The proposed project would not include natural gas.

Construction Off-road Equipment Mitigation - Assuming compliance with BAAQMD Basic Construction Mitigation Measures and the use of Tier 3 construction equipment.

Cedar Townhomes - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water Mitigation - The proposed project would install low-flow fixtures, drought-tolerant landscaping, and water-efficient irrigation.

Woodstoves - Assuming no woodstoves or fireplaces as the project would be all-electric.

Area Mitigation - Assuming no woodstoves or fireplaces as the project would be all-electric.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Cedar Townhomes - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	T24NG	18,214.40	0.00
tblFireplaces	NumberGas	11.40	0.00
tblFireplaces	NumberNoFireplace	3.04	76.00
tblFireplaces	NumberWood	12.92	0.00
tblLandUse	LotAcreage	4.75	2.90
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	7.20
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	7.20
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	7.20
tblWoodstoves	NumberCatalytic	1.52	0.00
tblWoodstoves	NumberNoncatalytic	1.52	0.00

2.0 Emissions Summary

Cedar Townhomes - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7095	27.5526	20.2339	0.0446	19.8049	1.2668	21.0716	10.1417	1.1654	11.3071	0.0000	4,356.6745	4,356.6745	1.1959	0.0818	4,407.6061
2024	60.0132	14.1353	17.9056	0.0346	0.6699	0.6198	1.2897	0.1799	0.5830	0.7628	0.0000	3,341.1774	3,341.1774	0.6204	0.0554	3,373.2052
Maximum	**60.0132**	**27.5526**	**20.2339**	**0.0446**	**19.8049**	**1.2668**	**21.0716**	**10.1417**	**1.1654**	**11.3071**	**0.0000**	**4,356.6745**	**4,356.6745**	**1.1959**	**0.0818**	**4,407.6061**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.9828	19.3239	25.2644	0.0446	8.9935	0.9469	9.9404	4.5853	0.9469	5.5322	0.0000	4,356.6745	4,356.6745	1.1959	0.0818	4,407.6061
2024	59.8919	14.9176	19.6125	0.0346	0.6699	0.9100	1.5799	0.1799	0.9096	1.0895	0.0000	3,341.1774	3,341.1774	0.6204	0.0554	3,373.2052
Maximum	**59.8919**	**19.3239**	**25.2644**	**0.0446**	**8.9935**	**0.9469**	**9.9404**	**4.5853**	**0.9469**	**5.5322**	**0.0000**	**4,356.6745**	**4,356.6745**	**1.1959**	**0.0818**	**4,407.6061**

Cedar Townhomes - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	2.95	17.86	-17.67	0.00	52.80	1.57	48.48	53.83	-6.18	45.14	0.00	0.00	0.00	0.00	0.00	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.1166	0.0723	6.2714	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2984	11.2984	0.0109	0.0000	11.5698
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	1.3700	1.4048	11.2448	0.0257	2.6610	0.0183	2.6793	0.7087	0.0171	0.7257		2,613.6760	2,613.6760	0.1483	0.1236	2,654.2284
Total	**3.4865**	**1.4770**	**17.5162**	**0.0260**	**2.6610**	**0.0530**	**2.7140**	**0.7087**	**0.0518**	**0.7605**	**0.0000**	**2,624.9744**	**2,624.9744**	**0.1592**	**0.1236**	**2,665.7981**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.1166	0.0723	6.2714	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2984	11.2984	0.0109	0.0000	11.5698
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	1.3700	1.4048	11.2448	0.0257	2.6610	0.0183	2.6793	0.7087	0.0171	0.7257		2,613.6760	2,613.6760	0.1483	0.1236	2,654.2284
Total	**3.4865**	**1.4770**	**17.5162**	**0.0260**	**2.6610**	**0.0530**	**2.7140**	**0.7087**	**0.0518**	**0.7605**	**0.0000**	**2,624.9744**	**2,624.9744**	**0.1592**	**0.1236**	**2,665.7981**

Cedar Townhomes - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/2/2023	10/27/2023	5	20	
2	Site Preparation	Site Preparation	10/28/2023	11/3/2023	5	5	
3	Grading	Grading	11/4/2023	11/15/2023	5	8	
4	Building Construction	Building Construction	11/16/2023	10/2/2024	5	230	
5	Paving	Paving	10/3/2024	10/28/2024	5	18	
6	Architectural Coating	Architectural Coating	10/29/2024	11/21/2024	5	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.34

Residential Indoor: 153,900; Residential Outdoor: 51,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 912 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Cedar Townhomes - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	156.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	70.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Cedar Townhomes - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6842	0.0000	1.6842	0.2550	0.0000	0.2550			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**1.6842**	**0.9975**	**2.6817**	**0.2550**	**0.9280**	**1.1830**		**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0166	0.9872	0.2312	4.6400e-003	0.1366	8.7300e-003	0.1454	0.0375	8.3500e-003	0.0458		500.7719	500.7719	0.0107	0.0791	524.6148
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0417	0.0237	0.3594	1.0800e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		108.9186	108.9186	2.8300e-003	2.6300e-003	109.7730
Total	**0.0582**	**1.0109**	**0.5906**	**5.7200e-003**	**0.2598**	**9.3500e-003**	**0.2692**	**0.0702**	**8.9200e-003**	**0.0791**		**609.6905**	**609.6905**	**0.0135**	**0.0818**	**634.3878**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7579	0.0000	0.7579	0.1148	0.0000	0.1148			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.8627	0.8627		0.8627	0.8627	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**0.9246**	**18.3130**	**24.6739**	**0.0388**	**0.7579**	**0.8627**	**1.6206**	**0.1148**	**0.8627**	**0.9775**	**0.0000**	**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0166	0.9872	0.2312	4.6400e-003	0.1366	8.7300e-003	0.1454	0.0375	8.3500e-003	0.0458		500.7719	500.7719	0.0107	0.0791	524.6148
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0417	0.0237	0.3594	1.0800e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		108.9186	108.9186	2.8300e-003	2.6300e-003	109.7730
Total	**0.0582**	**1.0109**	**0.5906**	**5.7200e-003**	**0.2598**	**9.3500e-003**	**0.2692**	**0.0702**	**8.9200e-003**	**0.0791**		**609.6905**	**609.6905**	**0.0135**	**0.0818**	**634.3878**

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**19.6570**	**1.2660**	**20.9230**	**10.1025**	**1.1647**	**11.2672**		**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0500	0.0285	0.4312	1.2900e-003	0.1479	7.4000e-004	0.1486	0.0392	6.8000e-004	0.0399		130.7024	130.7024	3.3900e-003	3.1600e-003	131.7276
Total	**0.0500**	**0.0285**	**0.4312**	**1.2900e-003**	**0.1479**	**7.4000e-004**	**0.1486**	**0.0392**	**6.8000e-004**	**0.0399**		**130.7024**	**130.7024**	**3.3900e-003**	**3.1600e-003**	**131.7276**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0381		0.9462	0.9462		0.9462	0.9462	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**0.9312**	**19.0656**	**22.9600**	**0.0381**	**8.8457**	**0.9462**	**9.7918**	**4.5461**	**0.9462**	**5.4923**	**0.0000**	**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0500	0.0285	0.4312	1.2900e-003	0.1479	7.4000e-004	0.1486	0.0392	6.8000e-004	0.0399		130.7024	130.7024	3.3900e-003	3.1600e-003	131.7276
Total	**0.0500**	**0.0285**	**0.4312**	**1.2900e-003**	**0.1479**	**7.4000e-004**	**0.1486**	**0.0392**	**6.8000e-004**	**0.0399**		**130.7024**	**130.7024**	**3.3900e-003**	**3.1600e-003**	**131.7276**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**1.7109**	**17.9359**	**14.7507**	**0.0297**	**7.0826**	**0.7749**	**7.8575**	**3.4247**	**0.7129**	**4.1377**		**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0417	0.0237	0.3594	1.0800e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		108.9186	108.9186	2.8300e-003	2.6300e-003	109.7730
Total	**0.0417**	**0.0237**	**0.3594**	**1.0800e-003**	**0.1232**	**6.2000e-004**	**0.1238**	**0.0327**	**5.7000e-004**	**0.0333**		**108.9186**	**108.9186**	**2.8300e-003**	**2.6300e-003**	**109.7730**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**0.7263**	**14.8397**	**18.9906**	**0.0297**	**3.1872**	**0.7555**	**3.9427**	**1.5411**	**0.7555**	**2.2967**	**0.0000**	**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0417	0.0237	0.3594	1.0800e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		108.9186	108.9186	2.8300e-003	2.6300e-003	109.7730
Total	**0.0417**	**0.0237**	**0.3594**	**1.0800e-003**	**0.1232**	**6.2000e-004**	**0.1238**	**0.0327**	**5.7000e-004**	**0.0333**		**108.9186**	**108.9186**	**2.8300e-003**	**2.6300e-003**	**109.7730**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0145	0.5904	0.1823	2.8000e-003	0.0949	3.6900e-003	0.0986	0.0273	3.5300e-003	0.0309		298.3172	298.3172	4.0900e-003	0.0446	311.7235
Worker	0.1946	0.1107	1.6770	5.0300e-003	0.5750	2.8800e-003	0.5779	0.1525	2.6500e-003	0.1552		508.2869	508.2869	0.0132	0.0123	512.2740
Total	**0.2090**	**0.7010**	**1.8593**	**7.8300e-003**	**0.6699**	**6.5700e-003**	**0.6765**	**0.1799**	**6.1800e-003**	**0.1860**		**806.6041**	**806.6041**	**0.0173**	**0.0569**	**823.9975**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**0.6739**	**14.2261**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Cedar Townhomes - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0145	0.5904	0.1823	2.8000e-003	0.0949	3.6900e-003	0.0986	0.0273	3.5300e-003	0.0309		298.3172	298.3172	4.0900e-003	0.0446	311.7235
Worker	0.1946	0.1107	1.6770	5.0300e-003	0.5750	2.8800e-003	0.5779	0.1525	2.6500e-003	0.1552		508.2869	508.2869	0.0132	0.0123	512.2740
Total	**0.2090**	**0.7010**	**1.8593**	**7.8300e-003**	**0.6699**	**6.5700e-003**	**0.6765**	**0.1799**	**6.1800e-003**	**0.1860**		**806.6041**	**806.6041**	**0.0173**	**0.0569**	**823.9975**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0142	0.5927	0.1789	2.7500e-003	0.0949	3.7200e-003	0.0986	0.0273	3.5600e-003	0.0309		293.7127	293.7127	4.0800e-003	0.0440	306.9222
Worker	0.1814	0.0988	1.5598	4.8700e-003	0.5750	2.7300e-003	0.5778	0.1525	2.5200e-003	0.1550		491.7658	491.7658	0.0119	0.0115	495.4753
Total	**0.1956**	**0.6915**	**1.7387**	**7.6200e-003**	**0.6699**	**6.4500e-003**	**0.6764**	**0.1799**	**6.0800e-003**	**0.1859**		**785.4785**	**785.4785**	**0.0160**	**0.0554**	**802.3975**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0270		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**0.6739**	**14.2261**	**17.8738**	**0.0270**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0142	0.5927	0.1789	2.7500e-003	0.0949	3.7200e-003	0.0986	0.0273	3.5600e-003	0.0309		293.7127	293.7127	4.0800e-003	0.0440	306.9222
Worker	0.1814	0.0988	1.5598	4.8700e-003	0.5750	2.7300e-003	0.5778	0.1525	2.5200e-003	0.1550		491.7658	491.7658	0.0119	0.0115	495.4753
Total	**0.1956**	**0.6915**	**1.7387**	**7.6200e-003**	**0.6699**	**6.4500e-003**	**0.6764**	**0.1799**	**6.0800e-003**	**0.1859**		**785.4785**	**785.4785**	**0.0160**	**0.0554**	**802.3975**

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685		1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.0495					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9309**	**8.2730**	**12.2210**	**0.0189**		**0.3987**	**0.3987**		**0.3685**	**0.3685**		**1,805.6205**	**1,805.6205**	**0.5673**		**1,819.8039**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0518	0.0282	0.4457	1.3900e-003	0.1643	7.8000e-004	0.1651	0.0436	7.2000e-004	0.0443		140.5045	140.5045	3.4100e-003	3.2700e-003	141.5644
Total	**0.0518**	**0.0282**	**0.4457**	**1.3900e-003**	**0.1643**	**7.8000e-004**	**0.1651**	**0.0436**	**7.2000e-004**	**0.0443**		**140.5045**	**140.5045**	**3.4100e-003**	**3.2700e-003**	**141.5644**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4389	9.0888	13.5323	0.0189		0.5246	0.5246		0.5246	0.5246	0.0000	1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.0495					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4884**	**9.0888**	**13.5323**	**0.0189**		**0.5246**	**0.5246**		**0.5246**	**0.5246**	**0.0000**	**1,805.6205**	**1,805.6205**	**0.5673**		**1,819.8039**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0518	0.0282	0.4457	1.3900e-003	0.1643	7.8000e-004	0.1651	0.0436	7.2000e-004	0.0443		140.5045	140.5045	3.4100e-003	3.2700e-003	141.5644
Total	**0.0518**	**0.0282**	**0.4457**	**1.3900e-003**	**0.1643**	**7.8000e-004**	**0.1651**	**0.0436**	**7.2000e-004**	**0.0443**		**140.5045**	**140.5045**	**3.4100e-003**	**3.2700e-003**	**141.5644**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	59.7961					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**59.9769**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0363	0.0198	0.3120	9.7000e-004	0.1150	5.5000e-004	0.1156	0.0305	5.0000e-004	0.0310		98.3532	98.3532	2.3900e-003	2.2900e-003	99.0951
Total	**0.0363**	**0.0198**	**0.3120**	**9.7000e-004**	**0.1150**	**5.5000e-004**	**0.1156**	**0.0305**	**5.0000e-004**	**0.0310**		**98.3532**	**98.3532**	**2.3900e-003**	**2.2900e-003**	**99.0951**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	59.7961					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**59.8556**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0363	0.0198	0.3120	9.7000e-004	0.1150	5.5000e-004	0.1156	0.0305	5.0000e-004	0.0310		98.3532	98.3532	2.3900e-003	2.2900e-003	99.0951
Total	**0.0363**	**0.0198**	**0.3120**	**9.7000e-004**	**0.1150**	**5.5000e-004**	**0.1156**	**0.0305**	**5.0000e-004**	**0.0310**		**98.3532**	**98.3532**	**2.3900e-003**	**2.2900e-003**	**99.0951**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3700	1.4048	11.2448	0.0257	2.6610	0.0183	2.6793	0.7087	0.0171	0.7257		2,613.6760	2,613.6760	0.1483	0.1236	2,654.2284
Unmitigated	1.3700	1.4048	11.2448	0.0257	2.6610	0.0183	2.6793	0.7087	0.0171	0.7257		2,613.6760	2,613.6760	0.1483	0.1236	2,654.2284

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	547.20	547.20	547.20	1,263,817	1,263,817
Parking Lot	0.00	0.00	0.00		
Total	547.20	547.20	547.20	1,263,817	1,263,817

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451
Condo/Townhouse	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Parking Lot	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Cedar Townhomes - Alameda County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1166	0.0723	6.2714	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2984	11.2984	0.0109	0.0000	11.5698
Unmitigated	2.1166	0.0723	6.2714	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2984	11.2984	0.0109	0.0000	11.5698

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2949					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1888	0.0723	6.2714	3.3000e-004		0.0348	0.0348		0.0348	0.0348		11.2984	11.2984	0.0109		11.5698
Total	**2.1166**	**0.0723**	**6.2714**	**3.3000e-004**		**0.0348**	**0.0348**		**0.0348**	**0.0348**	**0.0000**	**11.2984**	**11.2984**	**0.0109**	**0.0000**	**11.5698**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2949					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1888	0.0723	6.2714	3.3000e-004		0.0348	0.0348		0.0348	0.0348		11.2984	11.2984	0.0109		11.5698
Total	**2.1166**	**0.0723**	**6.2714**	**3.3000e-004**		**0.0348**	**0.0348**		**0.0348**	**0.0348**	**0.0000**	**11.2984**	**11.2984**	**0.0109**	**0.0000**	**11.5698**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Cedar Townhomes - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Cedar Townhomes

Alameda County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	38.00	Space	0.34	15,200.00	0
City Park	0.48	Acre	0.48	20,908.80	0
Condo/Townhouse	76.00	Dwelling Unit	2.90	76,000.00	217

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	63
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - total project site of 3.72 acres. Project would include 152 garage parking spaces and 38 surface parking spaces.

Construction Phase - Project construction would begin the fourth quarter of 2023 and would end in 2024. This analysis assumes default construction durations.

Off-road Equipment - Default

Demolition - The proposed project would demolish the existing onsite buildings totaling 34,219 sf.

Grading - Assuming a balanced site.

Vehicle Trips - The trip rate is based on the trip generation analysis prepared for the proposed project.

Energy Use - The proposed project would not include natural gas.

Construction Off-road Equipment Mitigation - Assuming compliance with BAAQMD Basic Construction Mitigation Measures and the use of Tier 3 construction equipment.

Cedar Townhomes - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water Mitigation - The proposed project would install low-flow fixtures, drought-tolerant landscaping, and water-efficient irrigation.

Woodstoves - Assuming no woodstoves or fireplaces as the project would be all-electric.

Area Mitigation - Assuming no woodstoves or fireplaces as the project would be all-electric.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	T24NG	18,214.40	0.00
tblFireplaces	NumberGas	11.40	0.00
tblFireplaces	NumberNoFireplace	3.04	76.00
tblFireplaces	NumberWood	12.92	0.00
tblLandUse	LotAcreage	4.75	2.90
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	7.20
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	7.20
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	7.20
tblWoodstoves	NumberCatalytic	1.52	0.00
tblWoodstoves	NumberNoncatalytic	1.52	0.00

2.0 Emissions Summary

Cedar Townhomes - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7103	27.5595	20.2232	0.0445	19.8049	1.2668	21.0716	10.1417	1.1654	11.3071	0.0000	4,349.4145	4,349.4145	1.1964	0.0823	4,400.5040
2024	60.0139	14.1944	17.8560	0.0342	0.6699	0.6198	1.2897	0.1799	0.5830	0.7628	0.0000	3,306.4932	3,306.4932	0.6221	0.0573	3,339.1284
Maximum	**60.0139**	**27.5595**	**20.2232**	**0.0445**	**19.8049**	**1.2668**	**21.0716**	**10.1417**	**1.1654**	**11.3071**	**0.0000**	**4,349.4145**	**4,349.4145**	**1.1964**	**0.0823**	**4,400.5040**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.9824	19.3877	25.2537	0.0445	8.9935	0.9469	9.9404	4.5853	0.9469	5.5322	0.0000	4,349.4145	4,349.4145	1.1964	0.0823	4,400.5040
2024	59.8926	14.9767	19.5629	0.0342	0.6699	0.9100	1.5799	0.1799	0.9096	1.0895	0.0000	3,306.4932	3,306.4932	0.6221	0.0573	3,339.1284
Maximum	**59.8926**	**19.3877**	**25.2537**	**0.0445**	**8.9935**	**0.9469**	**9.9404**	**4.5853**	**0.9469**	**5.5322**	**0.0000**	**4,349.4145**	**4,349.4145**	**1.1964**	**0.0823**	**4,400.5040**

Cedar Townhomes - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	2.95	17.70	-17.69	0.00	52.80	1.57	48.48	53.83	-6.18	45.14	0.00	0.00	0.00	0.00	0.00	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.1166	0.0723	6.2714	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2984	11.2984	0.0109	0.0000	11.5698
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	1.2234	1.6104	12.1026	0.0243	2.6610	0.0183	2.6793	0.7087	0.0171	0.7257		2,469.8755	2,469.8755	0.1694	0.1349	2,514.3107
Total	**3.3399**	**1.6827**	**18.3740**	**0.0246**	**2.6610**	**0.0531**	**2.7140**	**0.7087**	**0.0518**	**0.7605**	**0.0000**	**2,481.1739**	**2,481.1739**	**0.1803**	**0.1349**	**2,525.8804**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.1166	0.0723	6.2714	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2984	11.2984	0.0109	0.0000	11.5698
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	1.2234	1.6104	12.1026	0.0243	2.6610	0.0183	2.6793	0.7087	0.0171	0.7257		2,469.8755	2,469.8755	0.1694	0.1349	2,514.3107
Total	**3.3399**	**1.6827**	**18.3740**	**0.0246**	**2.6610**	**0.0531**	**2.7140**	**0.7087**	**0.0518**	**0.7605**	**0.0000**	**2,481.1739**	**2,481.1739**	**0.1803**	**0.1349**	**2,525.8804**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/2/2023	10/27/2023	5	20	
2	Site Preparation	Site Preparation	10/28/2023	11/3/2023	5	5	
3	Grading	Grading	11/4/2023	11/15/2023	5	8	
4	Building Construction	Building Construction	11/16/2023	10/2/2024	5	230	
5	Paving	Paving	10/3/2024	10/28/2024	5	18	
6	Architectural Coating	Architectural Coating	10/29/2024	11/21/2024	5	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.34

Residential Indoor: 153,900; Residential Outdoor: 51,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 912 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	156.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	70.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Cedar Townhomes - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6842	0.0000	1.6842	0.2550	0.0000	0.2550			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**1.6842**	**0.9975**	**2.6817**	**0.2550**	**0.9280**	**1.1830**		**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0155	1.0453	0.2346	4.6500e-003	0.1366	8.7400e-003	0.1454	0.0375	8.3600e-003	0.0458		501.3216	501.3216	0.0106	0.0792	525.1899
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0424	0.0295	0.3453	1.0000e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		101.1089	101.1089	3.2300e-003	3.0400e-003	102.0959
Total	**0.0578**	**1.0747**	**0.5799**	**5.6500e-003**	**0.2598**	**9.3600e-003**	**0.2692**	**0.0702**	**8.9300e-003**	**0.0791**		**602.4305**	**602.4305**	**0.0138**	**0.0823**	**627.2857**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7579	0.0000	0.7579	0.1148	0.0000	0.1148			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.8627	0.8627		0.8627	0.8627	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**0.9246**	**18.3130**	**24.6739**	**0.0388**	**0.7579**	**0.8627**	**1.6206**	**0.1148**	**0.8627**	**0.9775**	**0.0000**	**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0155	1.0453	0.2346	4.6500e-003	0.1366	8.7400e-003	0.1454	0.0375	8.3600e-003	0.0458		501.3216	501.3216	0.0106	0.0792	525.1899
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0424	0.0295	0.3453	1.0000e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		101.1089	101.1089	3.2300e-003	3.0400e-003	102.0959
Total	**0.0578**	**1.0747**	**0.5799**	**5.6500e-003**	**0.2598**	**9.3600e-003**	**0.2692**	**0.0702**	**8.9300e-003**	**0.0791**		**602.4305**	**602.4305**	**0.0138**	**0.0823**	**627.2857**

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**19.6570**	**1.2660**	**20.9230**	**10.1025**	**1.1647**	**11.2672**		**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0509	0.0354	0.4144	1.2000e-003	0.1479	7.4000e-004	0.1486	0.0392	6.8000e-004	0.0399		121.3306	121.3306	3.8800e-003	3.6500e-003	122.5150
Total	**0.0509**	**0.0354**	**0.4144**	**1.2000e-003**	**0.1479**	**7.4000e-004**	**0.1486**	**0.0392**	**6.8000e-004**	**0.0399**		**121.3306**	**121.3306**	**3.8800e-003**	**3.6500e-003**	**122.5150**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0381		0.9462	0.9462		0.9462	0.9462	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**0.9312**	**19.0656**	**22.9600**	**0.0381**	**8.8457**	**0.9462**	**9.7918**	**4.5461**	**0.9462**	**5.4923**	**0.0000**	**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0509	0.0354	0.4144	1.2000e-003	0.1479	7.4000e-004	0.1486	0.0392	6.8000e-004	0.0399		121.3306	121.3306	3.8800e-003	3.6500e-003	122.5150
Total	**0.0509**	**0.0354**	**0.4144**	**1.2000e-003**	**0.1479**	**7.4000e-004**	**0.1486**	**0.0392**	**6.8000e-004**	**0.0399**		**121.3306**	**121.3306**	**3.8800e-003**	**3.6500e-003**	**122.5150**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**1.7109**	**17.9359**	**14.7507**	**0.0297**	**7.0826**	**0.7749**	**7.8575**	**3.4247**	**0.7129**	**4.1377**		**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0424	0.0295	0.3453	1.0000e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		101.1089	101.1089	3.2300e-003	3.0400e-003	102.0959
Total	**0.0424**	**0.0295**	**0.3453**	**1.0000e-003**	**0.1232**	**6.2000e-004**	**0.1238**	**0.0327**	**5.7000e-004**	**0.0333**		**101.1089**	**101.1089**	**3.2300e-003**	**3.0400e-003**	**102.0959**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**0.7263**	**14.8397**	**18.9906**	**0.0297**	**3.1872**	**0.7555**	**3.9427**	**1.5411**	**0.7555**	**2.2967**	**0.0000**	**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0424	0.0295	0.3453	1.0000e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		101.1089	101.1089	3.2300e-003	3.0400e-003	102.0959
Total	**0.0424**	**0.0295**	**0.3453**	**1.0000e-003**	**0.1232**	**6.2000e-004**	**0.1238**	**0.0327**	**5.7000e-004**	**0.0333**		**101.1089**	**101.1089**	**3.2300e-003**	**3.0400e-003**	**102.0959**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0138	0.6255	0.1884	2.8000e-003	0.0949	3.7000e-003	0.0986	0.0273	3.5400e-003	0.0309		298.8191	298.8191	4.0400e-003	0.0448	312.2587
Worker	0.1978	0.1375	1.6114	4.6700e-003	0.5750	2.8800e-003	0.5779	0.1525	2.6500e-003	0.1552		471.8413	471.8413	0.0151	0.0142	476.4473
Total	**0.2116**	**0.7630**	**1.7998**	**7.4700e-003**	**0.6699**	**6.5800e-003**	**0.6765**	**0.1799**	**6.1900e-003**	**0.1860**		**770.6603**	**770.6603**	**0.0191**	**0.0590**	**788.7060**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**0.6739**	**14.2261**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0138	0.6255	0.1884	2.8000e-003	0.0949	3.7000e-003	0.0986	0.0273	3.5400e-003	0.0309		298.8191	298.8191	4.0400e-003	0.0448	312.2587
Worker	0.1978	0.1375	1.6114	4.6700e-003	0.5750	2.8800e-003	0.5779	0.1525	2.6500e-003	0.1552		471.8413	471.8413	0.0151	0.0142	476.4473
Total	**0.2116**	**0.7630**	**1.7998**	**7.4700e-003**	**0.6699**	**6.5800e-003**	**0.6765**	**0.1799**	**6.1900e-003**	**0.1860**		**770.6603**	**770.6603**	**0.0191**	**0.0590**	**788.7060**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0135	0.6279	0.1849	2.7600e-003	0.0949	3.7400e-003	0.0986	0.0273	3.5700e-003	0.0309		294.2122	294.2122	4.0400e-003	0.0441	307.4537
Worker	0.1850	0.1227	1.5043	4.5200e-003	0.5750	2.7300e-003	0.5778	0.1525	2.5200e-003	0.1550		456.5822	456.5822	0.0137	0.0132	460.8670
Total	**0.1985**	**0.7506**	**1.6892**	**7.2800e-003**	**0.6699**	**6.4700e-003**	**0.6764**	**0.1799**	**6.0900e-003**	**0.1859**		**750.7943**	**750.7943**	**0.0177**	**0.0573**	**768.3207**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0270		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**0.6739**	**14.2261**	**17.8738**	**0.0270**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0135	0.6279	0.1849	2.7600e-003	0.0949	3.7400e-003	0.0986	0.0273	3.5700e-003	0.0309		294.2122	294.2122	4.0400e-003	0.0441	307.4537
Worker	0.1850	0.1227	1.5043	4.5200e-003	0.5750	2.7300e-003	0.5778	0.1525	2.5200e-003	0.1550		456.5822	456.5822	0.0137	0.0132	460.8670
Total	**0.1985**	**0.7506**	**1.6892**	**7.2800e-003**	**0.6699**	**6.4700e-003**	**0.6764**	**0.1799**	**6.0900e-003**	**0.1859**		**750.7943**	**750.7943**	**0.0177**	**0.0573**	**768.3207**

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685		1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.0495					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9309**	**8.2730**	**12.2210**	**0.0189**		**0.3987**	**0.3987**		**0.3685**	**0.3685**		**1,805.6205**	**1,805.6205**	**0.5673**		**1,819.8039**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0529	0.0351	0.4298	1.2900e-003	0.1643	7.8000e-004	0.1651	0.0436	7.2000e-004	0.0443		130.4521	130.4521	3.9100e-003	3.7800e-003	131.6763
Total	**0.0529**	**0.0351**	**0.4298**	**1.2900e-003**	**0.1643**	**7.8000e-004**	**0.1651**	**0.0436**	**7.2000e-004**	**0.0443**		**130.4521**	**130.4521**	**3.9100e-003**	**3.7800e-003**	**131.6763**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4389	9.0888	13.5323	0.0189		0.5246	0.5246		0.5246	0.5246	0.0000	1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.0495					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4884**	**9.0888**	**13.5323**	**0.0189**		**0.5246**	**0.5246**		**0.5246**	**0.5246**	**0.0000**	**1,805.6205**	**1,805.6205**	**0.5673**		**1,819.8039**

Cedar Townhomes - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0529	0.0351	0.4298	1.2900e-003	0.1643	7.8000e-004	0.1651	0.0436	7.2000e-004	0.0443		130.4521	130.4521	3.9100e-003	3.7800e-003	131.6763
Total	**0.0529**	**0.0351**	**0.4298**	**1.2900e-003**	**0.1643**	**7.8000e-004**	**0.1651**	**0.0436**	**7.2000e-004**	**0.0443**		**130.4521**	**130.4521**	**3.9100e-003**	**3.7800e-003**	**131.6763**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	59.7961					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**59.9769**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0370	0.0245	0.3009	9.0000e-004	0.1150	5.5000e-004	0.1156	0.0305	5.0000e-004	0.0310		91.3164	91.3164	2.7400e-003	2.6500e-003	92.1734
Total	**0.0370**	**0.0245**	**0.3009**	**9.0000e-004**	**0.1150**	**5.5000e-004**	**0.1156**	**0.0305**	**5.0000e-004**	**0.0310**		**91.3164**	**91.3164**	**2.7400e-003**	**2.6500e-003**	**92.1734**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	59.7961					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**59.8556**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0370	0.0245	0.3009	9.0000e-004	0.1150	5.5000e-004	0.1156	0.0305	5.0000e-004	0.0310		91.3164	91.3164	2.7400e-003	2.6500e-003	92.1734
Total	**0.0370**	**0.0245**	**0.3009**	**9.0000e-004**	**0.1150**	**5.5000e-004**	**0.1156**	**0.0305**	**5.0000e-004**	**0.0310**		**91.3164**	**91.3164**	**2.7400e-003**	**2.6500e-003**	**92.1734**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Cedar Townhomes - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2234	1.6104	12.1026	0.0243	2.6610	0.0183	2.6793	0.7087	0.0171	0.7257		2,469.8755	2,469.8755	0.1694	0.1349	2,514.3107
Unmitigated	1.2234	1.6104	12.1026	0.0243	2.6610	0.0183	2.6793	0.7087	0.0171	0.7257		2,469.8755	2,469.8755	0.1694	0.1349	2,514.3107

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	547.20	547.20	547.20	1,263,817	1,263,817
Parking Lot	0.00	0.00	0.00		
Total	547.20	547.20	547.20	1,263,817	1,263,817

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451
Condo/Townhouse	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Parking Lot	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Cedar Townhomes - Alameda County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1166	0.0723	6.2714	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2984	11.2984	0.0109	0.0000	11.5698
Unmitigated	2.1166	0.0723	6.2714	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2984	11.2984	0.0109	0.0000	11.5698

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2949					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1888	0.0723	6.2714	3.3000e-004		0.0348	0.0348		0.0348	0.0348		11.2984	11.2984	0.0109		11.5698
Total	**2.1166**	**0.0723**	**6.2714**	**3.3000e-004**		**0.0348**	**0.0348**		**0.0348**	**0.0348**	**0.0000**	**11.2984**	**11.2984**	**0.0109**	**0.0000**	**11.5698**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2949					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1888	0.0723	6.2714	3.3000e-004		0.0348	0.0348		0.0348	0.0348		11.2984	11.2984	0.0109		11.5698
Total	**2.1166**	**0.0723**	**6.2714**	**3.3000e-004**		**0.0348**	**0.0348**		**0.0348**	**0.0348**	**0.0000**	**11.2984**	**11.2984**	**0.0109**	**0.0000**	**11.5698**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Cedar Townhomes - Mitigated - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Cedar Townhomes - Mitigated

Alameda County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	38.00	Space	0.34	15,200.00	0
City Park	0.48	Acre	0.48	20,908.80	0
Condo/Townhouse	76.00	Dwelling Unit	2.90	76,000.00	217

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	63
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - total project site of 3.72 acres. Project would include 152 garage parking spaces and 38 surface parking spaces.

Construction Phase - Project construction would begin the fourth quarter of 2023 and would end in 2024. This analysis assumes default construction durations.

Off-road Equipment - Default

Demolition - The proposed project would demolish the existing onsite buildings totaling 34,219 sf.

Grading - Assuming a balanced site.

Vehicle Trips - The trip rate is based on the trip generation analysis prepared for the proposed project.

Energy Use - The proposed project would not include natural gas.

Construction Off-road Equipment Mitigation - Assuming compliance with BAAQMD Basic Construction Mitigation Measures and the use of Tier 3 construction equipment and level 3 diesel particulate filters.

Cedar Townhomes - Mitigated - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water Mitigation - The proposed project would install low-flow fixtures, drought-tolerant landscaping, and water-efficient irrigation.

Woodstoves - Assuming no woodstoves or fireplaces as the project would be all-electric.

Area Mitigation - Assuming no woodstoves or fireplaces as the project would be all-electric.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Cedar Townhomes - Mitigated - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	T24NG	18,214.40	0.00
tblFireplaces	NumberGas	11.40	0.00
tblFireplaces	NumberNoFireplace	3.04	76.00
tblFireplaces	NumberWood	12.92	0.00
tblLandUse	LotAcreage	4.75	2.90
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	7.20
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	7.20

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	7.20
tblWoodstoves	NumberCatalytic	1.52	0.00
tblWoodstoves	NumberNoncatalytic	1.52	0.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0653	0.6081	0.5968	1.2200e-003	0.1080	0.0276	0.1356	0.0452	0.0258	0.0710	0.0000	107.2110	107.2110	0.0248	1.6000e-003	108.3099
2024	0.7129	1.4888	1.8948	3.6100e-003	0.0663	0.0655	0.1318	0.0179	0.0616	0.0794	0.0000	316.0754	316.0754	0.0606	5.1200e-003	319.1171
Maximum	**0.7129**	**1.4888**	**1.8948**	**3.6100e-003**	**0.1080**	**0.0655**	**0.1356**	**0.0452**	**0.0616**	**0.0794**	**0.0000**	**316.0754**	**316.0754**	**0.0606**	**5.1200e-003**	**319.1171**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0292	0.5403	0.7019	1.2200e-003	0.0561	4.4700e-003	0.0606	0.0224	4.4600e-003	0.0268	0.0000	107.2109	107.2109	0.0248	1.6000e-003	108.3098
2024	0.6289	1.5748	2.0758	3.6100e-003	0.0663	0.0149	0.0812	0.0179	0.0149	0.0327	0.0000	316.0752	316.0752	0.0606	5.1200e-003	319.1168
Maximum	**0.6289**	**1.5748**	**2.0758**	**3.6100e-003**	**0.0663**	**0.0149**	**0.0812**	**0.0224**	**0.0149**	**0.0327**	**0.0000**	**316.0752**	**316.0752**	**0.0606**	**5.1200e-003**	**319.1168**

Cedar Townhomes - Mitigated - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**15.44**	**-0.87**	**-11.48**	**0.00**	**29.76**	**79.19**	**46.98**	**36.22**	**77.87**	**60.41**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**10-2-2023**	**1-1-2024**	0.6751	0.5728
2	**1-2-2024**	**4-1-2024**	0.5156	0.5151
3	**4-2-2024**	**7-1-2024**	0.5136	0.5131
4	**7-2-2024**	**9-30-2024**	0.5136	0.5131
		Highest	0.6751	0.5728

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3688	6.5000e-003	0.5644	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9225	0.9225	8.9000e-004	0.0000	0.9446
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	34.5196	34.5196	5.5800e-003	6.8000e-004	34.8609
Mobile	0.2228	0.2775	2.0607	4.4300e-003	0.4663	3.3300e-003	0.4696	0.1246	3.1000e-003	0.1277	0.0000	409.2183	409.2183	0.0264	0.0215	416.2747
Waste						0.0000	0.0000		0.0000	0.0000	7.1047	0.0000	7.1047	0.4199	0.0000	17.6016
Water						0.0000	0.0000		0.0000	0.0000	1.5710	3.6752	5.2461	0.1620	3.8800e-003	10.4516
Total	**0.5916**	**0.2840**	**2.6251**	**4.4600e-003**	**0.4663**	**6.4600e-003**	**0.4727**	**0.1246**	**6.2300e-003**	**0.1308**	**8.6756**	**448.3355**	**457.0111**	**0.6147**	**0.0260**	**480.1333**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3688	6.5000e-003	0.5644	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9225	0.9225	8.9000e-004	0.0000	0.9446
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	34.5196	34.5196	5.5800e-003	6.8000e-004	34.8609
Mobile	0.2228	0.2775	2.0607	4.4300e-003	0.4663	3.3300e-003	0.4696	0.1246	3.1000e-003	0.1277	0.0000	409.2183	409.2183	0.0264	0.0215	416.2747
Waste						0.0000	0.0000		0.0000	0.0000	7.1047	0.0000	7.1047	0.4199	0.0000	17.6016
Water						0.0000	0.0000		0.0000	0.0000	1.2568	3.1064	4.3632	0.1296	3.1100e-003	8.5292
Total	**0.5916**	**0.2840**	**2.6251**	**4.4600e-003**	**0.4663**	**6.4600e-003**	**0.4727**	**0.1246**	**6.2300e-003**	**0.1308**	**8.3614**	**447.7667**	**456.1282**	**0.5823**	**0.0253**	**478.2109**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**3.62**	**0.13**	**0.19**	**5.27**	**2.96**	**0.40**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/2/2023	10/27/2023	5	20	
2	Site Preparation	Site Preparation	10/28/2023	11/3/2023	5	5	
3	Grading	Grading	11/4/2023	11/15/2023	5	8	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Building Construction	Building Construction	11/16/2023	10/2/2024	5	230	
5	Paving	Paving	10/3/2024	10/28/2024	5	18	
6	Architectural Coating	Architectural Coating	10/29/2024	11/21/2024	5	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.34

Residential Indoor: 153,900; Residential Outdoor: 51,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 912 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	156.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	70.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0168	0.0000	0.0168	2.5500e-003	0.0000	2.5500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0227	0.2148	0.1964	3.9000e-004		9.9800e-003	9.9800e-003		9.2800e-003	9.2800e-003	0.0000	33.9921	33.9921	9.5200e-003	0.0000	34.2301
Total	**0.0227**	**0.2148**	**0.1964**	**3.9000e-004**	**0.0168**	**9.9800e-003**	**0.0268**	**2.5500e-003**	**9.2800e-003**	**0.0118**	**0.0000**	**33.9921**	**33.9921**	**9.5200e-003**	**0.0000**	**34.2301**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	0.0103	2.3300e-003	5.0000e-005	1.3200e-003	9.0000e-005	1.4100e-003	3.6000e-004	8.0000e-005	4.5000e-004	0.0000	4.5450	4.5450	1.0000e-004	7.2000e-004	4.7614
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.7000e-004	3.3400e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9235	0.9235	3.0000e-005	3.0000e-005	0.9319
Total	**5.5000e-004**	**0.0105**	**5.6700e-003**	**6.0000e-005**	**2.5100e-003**	**1.0000e-004**	**2.6000e-003**	**6.8000e-004**	**9.0000e-005**	**7.7000e-004**	**0.0000**	**5.4685**	**5.4685**	**1.3000e-004**	**7.5000e-004**	**5.6933**

Cedar Townhomes - Mitigated - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5800e-003	0.0000	7.5800e-003	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2500e-003	0.1831	0.2467	3.9000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	33.9920	33.9920	9.5200e-003	0.0000	34.2300
Total	**9.2500e-003**	**0.1831**	**0.2467**	**3.9000e-004**	**7.5800e-003**	**1.2900e-003**	**8.8700e-003**	**1.1500e-003**	**1.2900e-003**	**2.4400e-003**	**0.0000**	**33.9920**	**33.9920**	**9.5200e-003**	**0.0000**	**34.2300**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	0.0103	2.3300e-003	5.0000e-005	1.3200e-003	9.0000e-005	1.4100e-003	3.6000e-004	8.0000e-005	4.5000e-004	0.0000	4.5450	4.5450	1.0000e-004	7.2000e-004	4.7614
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.7000e-004	3.3400e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9235	0.9235	3.0000e-005	3.0000e-005	0.9319
Total	**5.5000e-004**	**0.0105**	**5.6700e-003**	**6.0000e-005**	**2.5100e-003**	**1.0000e-004**	**2.6000e-003**	**6.8000e-004**	**9.0000e-005**	**7.7000e-004**	**0.0000**	**5.4685**	**5.4685**	**1.3000e-004**	**7.5000e-004**	**5.6933**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0688	0.0456	1.0000e-004		3.1700e-003	3.1700e-003		2.9100e-003	2.9100e-003	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
Total	**6.6500e-003**	**0.0688**	**0.0456**	**1.0000e-004**	**0.0491**	**3.1700e-003**	**0.0523**	**0.0253**	**2.9100e-003**	**0.0282**	**0.0000**	**8.3627**	**8.3627**	**2.7000e-003**	**0.0000**	**8.4303**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	1.0000e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2770	0.2770	1.0000e-005	1.0000e-005	0.2796
Total	**1.2000e-004**	**8.0000e-005**	**1.0000e-003**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2770**	**0.2770**	**1.0000e-005**	**1.0000e-005**	**0.2796**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0221	0.0000	0.0221	0.0114	0.0000	0.0114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0477	0.0574	1.0000e-004		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
Total	**2.3300e-003**	**0.0477**	**0.0574**	**1.0000e-004**	**0.0221**	**3.5000e-004**	**0.0225**	**0.0114**	**3.5000e-004**	**0.0117**	**0.0000**	**8.3627**	**8.3627**	**2.7000e-003**	**0.0000**	**8.4303**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	1.0000e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2770	0.2770	1.0000e-005	1.0000e-005	0.2796
Total	**1.2000e-004**	**8.0000e-005**	**1.0000e-003**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2770**	**0.2770**	**1.0000e-005**	**1.0000e-005**	**0.2796**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0283	0.0000	0.0283	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8400e-003	0.0717	0.0590	1.2000e-004		3.1000e-003	3.1000e-003		2.8500e-003	2.8500e-003	0.0000	10.4243	10.4243	3.3700e-003	0.0000	10.5085
Total	**6.8400e-003**	**0.0717**	**0.0590**	**1.2000e-004**	**0.0283**	**3.1000e-003**	**0.0314**	**0.0137**	**2.8500e-003**	**0.0166**	**0.0000**	**10.4243**	**10.4243**	**3.3700e-003**	**0.0000**	**10.5085**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.3300e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3694	0.3694	1.0000e-005	1.0000e-005	0.3728
Total	**1.6000e-004**	**1.1000e-004**	**1.3300e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3694**	**0.3694**	**1.0000e-005**	**1.0000e-005**	**0.3728**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0128	0.0000	0.0128	6.1600e-003	0.0000	6.1600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9100e-003	0.0594	0.0760	1.2000e-004		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	10.4242	10.4242	3.3700e-003	0.0000	10.5085
Total	**2.9100e-003**	**0.0594**	**0.0760**	**1.2000e-004**	**0.0128**	**4.5000e-004**	**0.0132**	**6.1600e-003**	**4.5000e-004**	**6.6100e-003**	**0.0000**	**10.4242**	**10.4242**	**3.3700e-003**	**0.0000**	**10.5085**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.3300e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3694	0.3694	1.0000e-005	1.0000e-005	0.3728
Total	**1.6000e-004**	**1.1000e-004**	**1.3300e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3694**	**0.3694**	**1.0000e-005**	**1.0000e-005**	**0.3728**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0252	0.2302	0.2599	4.3000e-004		0.0112	0.0112		0.0105	0.0105	0.0000	37.0888	37.0888	8.8200e-003	0.0000	37.3093
Total	**0.0252**	**0.2302**	**0.2599**	**4.3000e-004**		**0.0112**	**0.0112**		**0.0105**	**0.0105**	**0.0000**	**37.0888**	**37.0888**	**8.8200e-003**	**0.0000**	**37.3093**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-004	9.7900e-003	2.9600e-003	4.0000e-005	1.4700e-003	6.0000e-005	1.5300e-003	4.3000e-004	6.0000e-005	4.8000e-004	0.0000	4.3331	4.3331	6.0000e-005	6.5000e-004	4.5279
Worker	2.9300e-003	2.0100e-003	0.0249	8.0000e-005	8.8600e-003	5.0000e-005	8.9000e-003	2.3600e-003	4.0000e-005	2.4000e-003	0.0000	6.8953	6.8953	2.1000e-004	1.9000e-004	6.9581
Total	**3.1600e-003**	**0.0118**	**0.0279**	**1.2000e-004**	**0.0103**	**1.1000e-004**	**0.0104**	**2.7900e-003**	**1.0000e-004**	**2.8800e-003**	**0.0000**	**11.2284**	**11.2284**	**2.7000e-004**	**8.4000e-004**	**11.4861**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0108	0.2276	0.2860	4.3000e-004		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	37.0887	37.0887	8.8200e-003	0.0000	37.3093
Total	**0.0108**	**0.2276**	**0.2860**	**4.3000e-004**		**2.1700e-003**	**2.1700e-003**		**2.1700e-003**	**2.1700e-003**	**0.0000**	**37.0887**	**37.0887**	**8.8200e-003**	**0.0000**	**37.3093**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-004	9.7900e-003	2.9600e-003	4.0000e-005	1.4700e-003	6.0000e-005	1.5300e-003	4.3000e-004	6.0000e-005	4.8000e-004	0.0000	4.3331	4.3331	6.0000e-005	6.5000e-004	4.5279
Worker	2.9300e-003	2.0100e-003	0.0249	8.0000e-005	8.8600e-003	5.0000e-005	8.9000e-003	2.3600e-003	4.0000e-005	2.4000e-003	0.0000	6.8953	6.8953	2.1000e-004	1.9000e-004	6.9581
Total	**3.1600e-003**	**0.0118**	**0.0279**	**1.2000e-004**	**0.0103**	**1.1000e-004**	**0.0104**	**2.7900e-003**	**1.0000e-004**	**2.8800e-003**	**0.0000**	**11.2284**	**11.2284**	**2.7000e-004**	**8.4000e-004**	**11.4861**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1457	1.3309	1.6005	2.6700e-003		0.0607	0.0607		0.0571	0.0571	0.0000	229.5306	229.5306	0.0543	0.0000	230.8876
Total	**0.1457**	**1.3309**	**1.6005**	**2.6700e-003**		**0.0607**	**0.0607**		**0.0571**	**0.0571**	**0.0000**	**229.5306**	**229.5306**	**0.0543**	**0.0000**	**230.8876**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3700e-003	0.0608	0.0180	2.7000e-004	9.1100e-003	3.7000e-004	9.4700e-003	2.6300e-003	3.5000e-004	2.9900e-003	0.0000	26.3975	26.3975	3.6000e-004	3.9600e-003	27.5853
Worker	0.0169	0.0111	0.1437	4.5000e-004	0.0548	2.7000e-004	0.0551	0.0146	2.5000e-004	0.0148	0.0000	41.2842	41.2842	1.1500e-003	1.1200e-003	41.6461
Total	**0.0183**	**0.0719**	**0.1617**	**7.2000e-004**	**0.0639**	**6.4000e-004**	**0.0645**	**0.0172**	**6.0000e-004**	**0.0178**	**0.0000**	**67.6817**	**67.6817**	**1.5100e-003**	**5.0800e-003**	**69.2313**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0667	1.4084	1.7695	2.6700e-003		0.0134	0.0134		0.0134	0.0134	0.0000	229.5303	229.5303	0.0543	0.0000	230.8873
Total	**0.0667**	**1.4084**	**1.7695**	**2.6700e-003**		**0.0134**	**0.0134**		**0.0134**	**0.0134**	**0.0000**	**229.5303**	**229.5303**	**0.0543**	**0.0000**	**230.8873**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3700e-003	0.0608	0.0180	2.7000e-004	9.1100e-003	3.7000e-004	9.4700e-003	2.6300e-003	3.5000e-004	2.9900e-003	0.0000	26.3975	26.3975	3.6000e-004	3.9600e-003	27.5853
Worker	0.0169	0.0111	0.1437	4.5000e-004	0.0548	2.7000e-004	0.0551	0.0146	2.5000e-004	0.0148	0.0000	41.2842	41.2842	1.1500e-003	1.1200e-003	41.6461
Total	**0.0183**	**0.0719**	**0.1617**	**7.2000e-004**	**0.0639**	**6.4000e-004**	**0.0645**	**0.0172**	**6.0000e-004**	**0.0178**	**0.0000**	**67.6817**	**67.6817**	**1.5100e-003**	**5.0800e-003**	**69.2313**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.9300e-003	0.0745	0.1100	1.7000e-004		3.5900e-003	3.5900e-003		3.3200e-003	3.3200e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581
Paving	4.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.3800e-003**	**0.0745**	**0.1100**	**1.7000e-004**		**3.5900e-003**	**3.5900e-003**		**3.3200e-003**	**3.3200e-003**	**0.0000**	**14.7423**	**14.7423**	**4.6300e-003**	**0.0000**	**14.8581**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.9000e-004	3.7300e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0723	1.0723	3.0000e-005	3.0000e-005	1.0817
Total	**4.4000e-004**	**2.9000e-004**	**3.7300e-003**	**1.0000e-005**	**1.4200e-003**	**1.0000e-005**	**1.4300e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.0723**	**1.0723**	**3.0000e-005**	**3.0000e-005**	**1.0817**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9500e-003	0.0818	0.1218	1.7000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581
Paving	4.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.4000e-003**	**0.0818**	**0.1218**	**1.7000e-004**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**	**0.0000**	**14.7423**	**14.7423**	**4.6300e-003**	**0.0000**	**14.8581**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.9000e-004	3.7300e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0723	1.0723	3.0000e-005	3.0000e-005	1.0817
Total	**4.4000e-004**	**2.9000e-004**	**3.7300e-003**	**1.0000e-005**	**1.4200e-003**	**1.0000e-005**	**1.4300e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.0723**	**1.0723**	**3.0000e-005**	**3.0000e-005**	**1.0817**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
Total	**0.5398**	**0.0110**	**0.0163**	**3.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.5000e-004**	**5.5000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.3000e-004**	**0.0000**	**2.3012**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.0000e-004	2.6100e-003	1.0000e-005	1.0000e-003	0.0000	1.0000e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7506	0.7506	2.0000e-005	2.0000e-005	0.7572
Total	**3.1000e-004**	**2.0000e-004**	**2.6100e-003**	**1.0000e-005**	**1.0000e-003**	**0.0000**	**1.0000e-003**	**2.7000e-004**	**0.0000**	**2.7000e-004**	**0.0000**	**0.7506**	**0.7506**	**2.0000e-005**	**2.0000e-005**	**0.7572**

Cedar Townhomes - Mitigated - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3000e-004	0.0122	0.0165	3.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
Total	**0.5387**	**0.0122**	**0.0165**	**3.0000e-005**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.3000e-004**	**0.0000**	**2.3012**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.0000e-004	2.6100e-003	1.0000e-005	1.0000e-003	0.0000	1.0000e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7506	0.7506	2.0000e-005	2.0000e-005	0.7572
Total	**3.1000e-004**	**2.0000e-004**	**2.6100e-003**	**1.0000e-005**	**1.0000e-003**	**0.0000**	**1.0000e-003**	**2.7000e-004**	**0.0000**	**2.7000e-004**	**0.0000**	**0.7506**	**0.7506**	**2.0000e-005**	**2.0000e-005**	**0.7572**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2228	0.2775	2.0607	4.4300e-003	0.4663	3.3300e-003	0.4696	0.1246	3.1000e-003	0.1277	0.0000	409.2183	409.2183	0.0264	0.0215	416.2747
Unmitigated	0.2228	0.2775	2.0607	4.4300e-003	0.4663	3.3300e-003	0.4696	0.1246	3.1000e-003	0.1277	0.0000	409.2183	409.2183	0.0264	0.0215	416.2747

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	547.20	547.20	547.20	1,263,817	1,263,817
Parking Lot	0.00	0.00	0.00		
Total	547.20	547.20	547.20	1,263,817	1,263,817

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451
Condo/Townhouse	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451
Parking Lot	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	34.5196	34.5196	5.5800e-003	6.8000e-004	34.8609
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	34.5196	34.5196	5.5800e-003	6.8000e-004	34.8609
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Cedar Townhomes - Mitigated - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	367769	34.0273	5.5000e-003	6.7000e-004	34.3638
Parking Lot	5320	0.4922	8.0000e-005	1.0000e-005	0.4971
Total		**34.5196**	**5.5800e-003**	**6.8000e-004**	**34.8609**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	367769	34.0273	5.5000e-003	6.7000e-004	34.3638
Parking Lot	5320	0.4922	8.0000e-005	1.0000e-005	0.4971
Total		**34.5196**	**5.5800e-003**	**6.8000e-004**	**34.8609**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3688	6.5000e-003	0.5644	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9225	0.9225	8.9000e-004	0.0000	0.9446
Unmitigated	0.3688	6.5000e-003	0.5644	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9225	0.9225	8.9000e-004	0.0000	0.9446

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0538					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2980					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0170	6.5000e-003	0.5644	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9225	0.9225	8.9000e-004	0.0000	0.9446
Total	**0.3688**	**6.5000e-003**	**0.5644**	**3.0000e-005**		**3.1300e-003**	**3.1300e-003**		**3.1300e-003**	**3.1300e-003**	**0.0000**	**0.9225**	**0.9225**	**8.9000e-004**	**0.0000**	**0.9446**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0538					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2980					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0170	6.5000e-003	0.5644	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9225	0.9225	8.9000e-004	0.0000	0.9446
Total	**0.3688**	**6.5000e-003**	**0.5644**	**3.0000e-005**		**3.1300e-003**	**3.1300e-003**		**3.1300e-003**	**3.1300e-003**	**0.0000**	**0.9225**	**0.9225**	**8.9000e-004**	**0.0000**	**0.9446**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Cedar Townhomes - Mitigated - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.3632	0.1296	3.1100e-003	8.5292
Unmitigated	5.2461	0.1620	3.8800e-003	10.4516

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.571911	0.1852	3.0000e-005	0.0000	0.1870
Condo/Townhouse	4.95171 / 3.12173	5.0609	0.1619	3.8800e-003	10.2646
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**5.2461**	**0.1620**	**3.8800e-003**	**10.4516**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.537024	0.1739	3.0000e-005	0.0000	0.1756
Condo/Townhouse	3.96136 / 2.9313	4.1893	0.1296	3.1100e-003	8.3536
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**4.3632**	**0.1296**	**3.1100e-003**	**8.5292**

8.0 Waste Detail

8.1 Mitigation Measures Waste

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.1047	0.4199	0.0000	17.6016
Unmitigated	7.1047	0.4199	0.0000	17.6016

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.04	8.1200e-003	4.8000e-004	0.0000	0.0201
Condo/Townhouse	34.96	7.0966	0.4194	0.0000	17.5814
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**7.1047**	**0.4199**	**0.0000**	**17.6016**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.04	8.1200e-003	4.8000e-004	0.0000	0.0201
Condo/Townhouse	34.96	7.0966	0.4194	0.0000	17.5814
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**7.1047**	**0.4199**	**0.0000**	**17.6016**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

11.0 Vegetation

ATTACHMENT B

HRA MODEL SNAPSHOTS AND OUTPUT

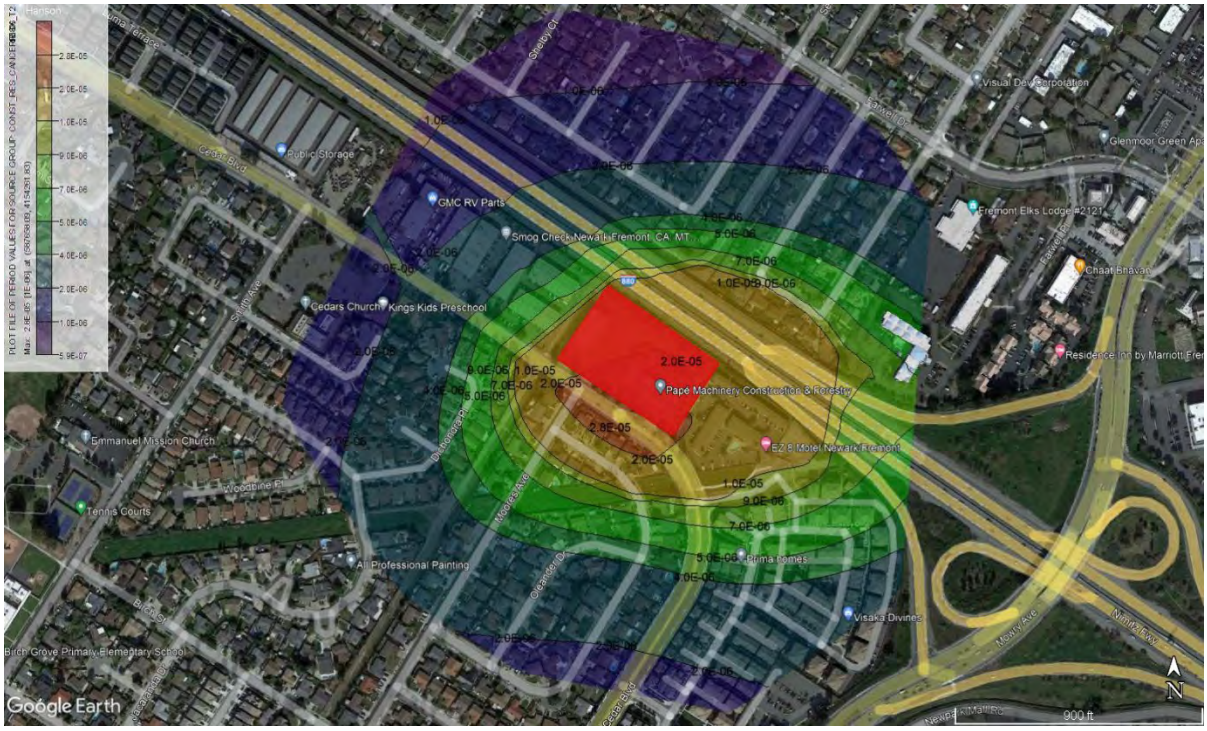
Project Location



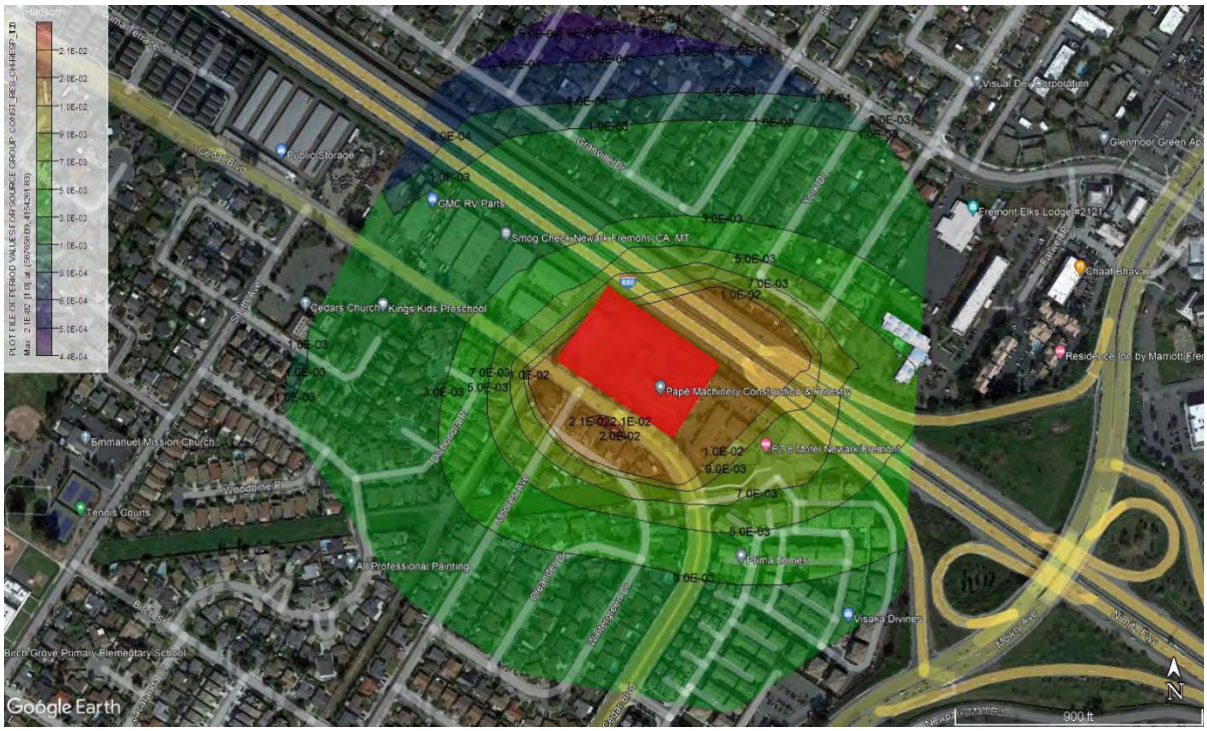
Construction Grid



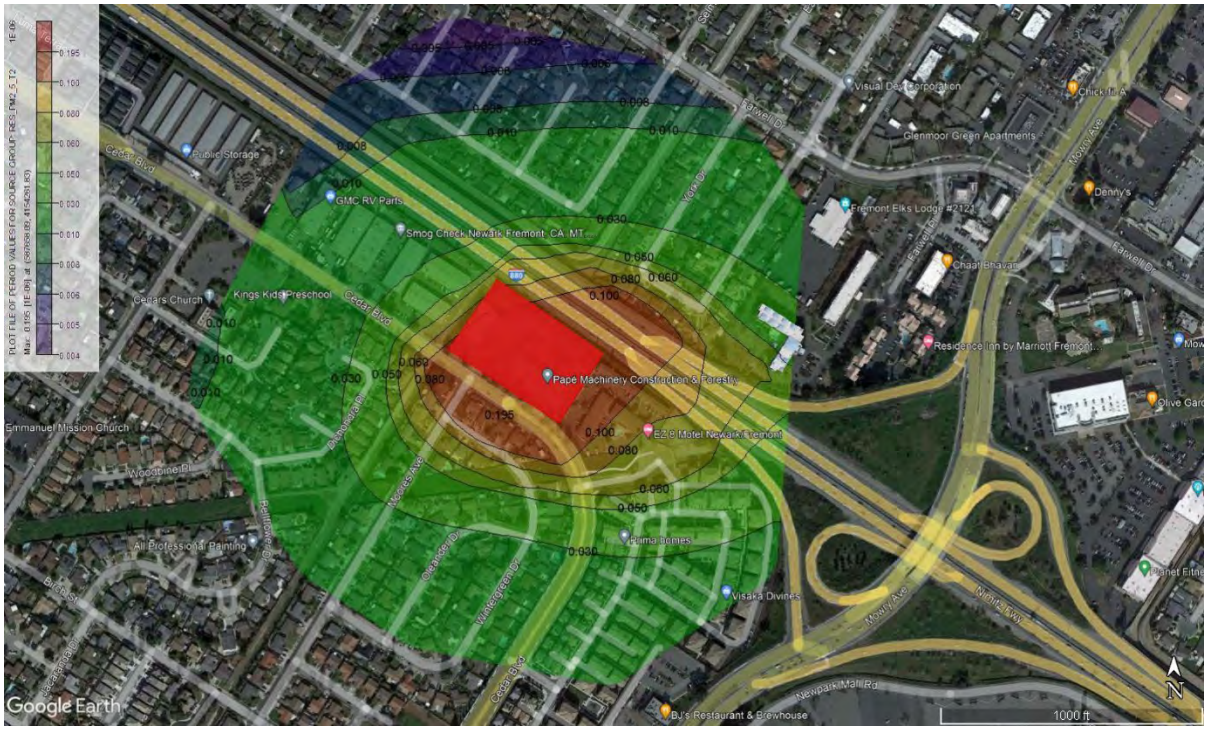
Unmitigated Construction Cancer Risk



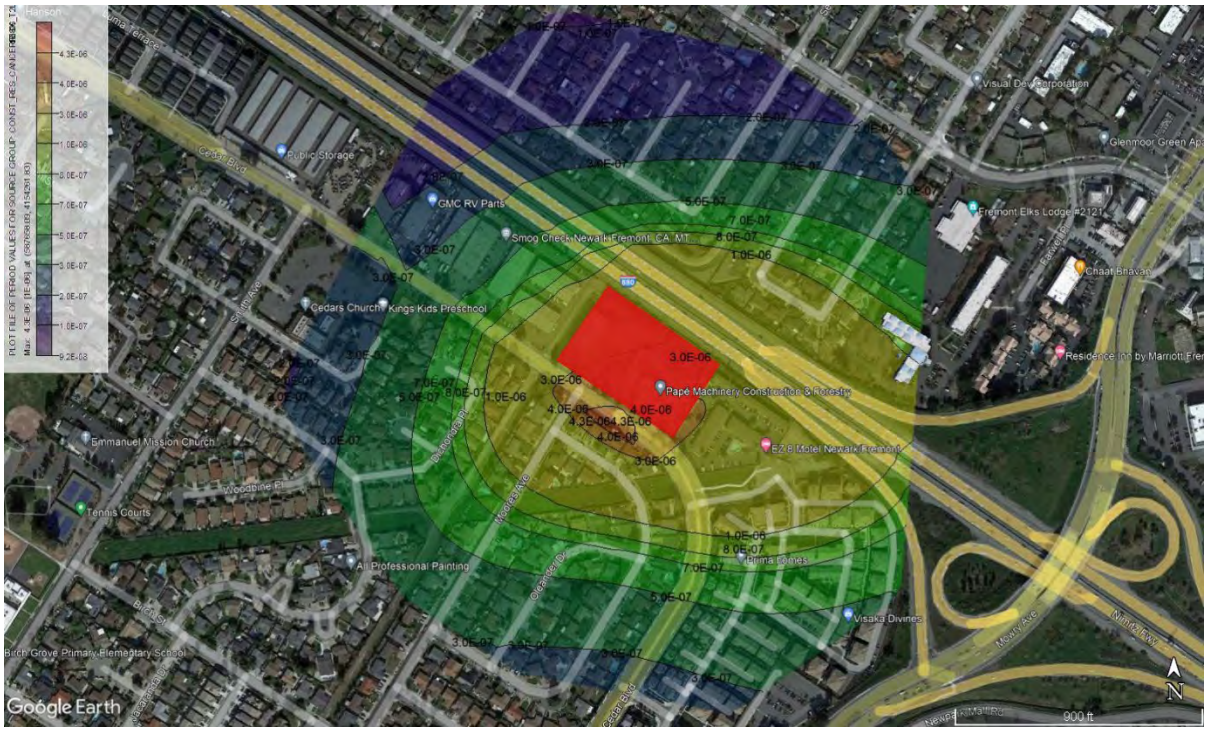
Unmitigated Construction Chronic Hazard Index



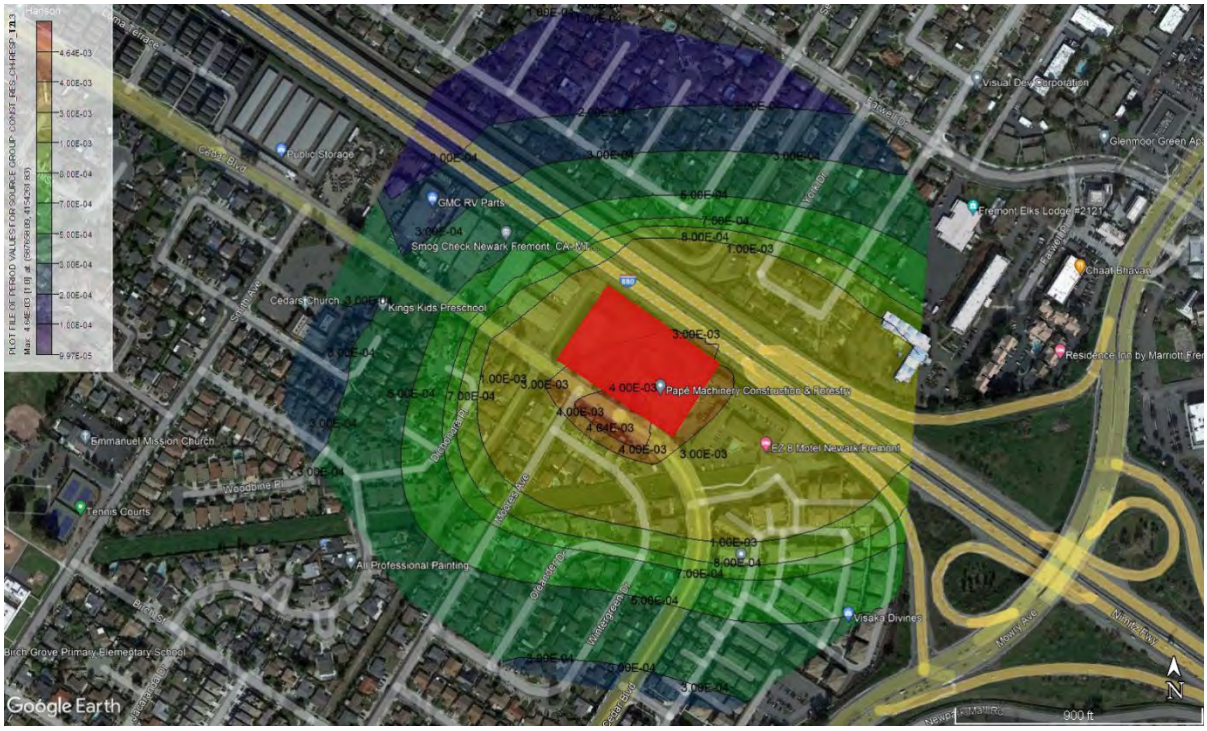
Unmitigated Construction $PM_{2.5}$ Concentrations



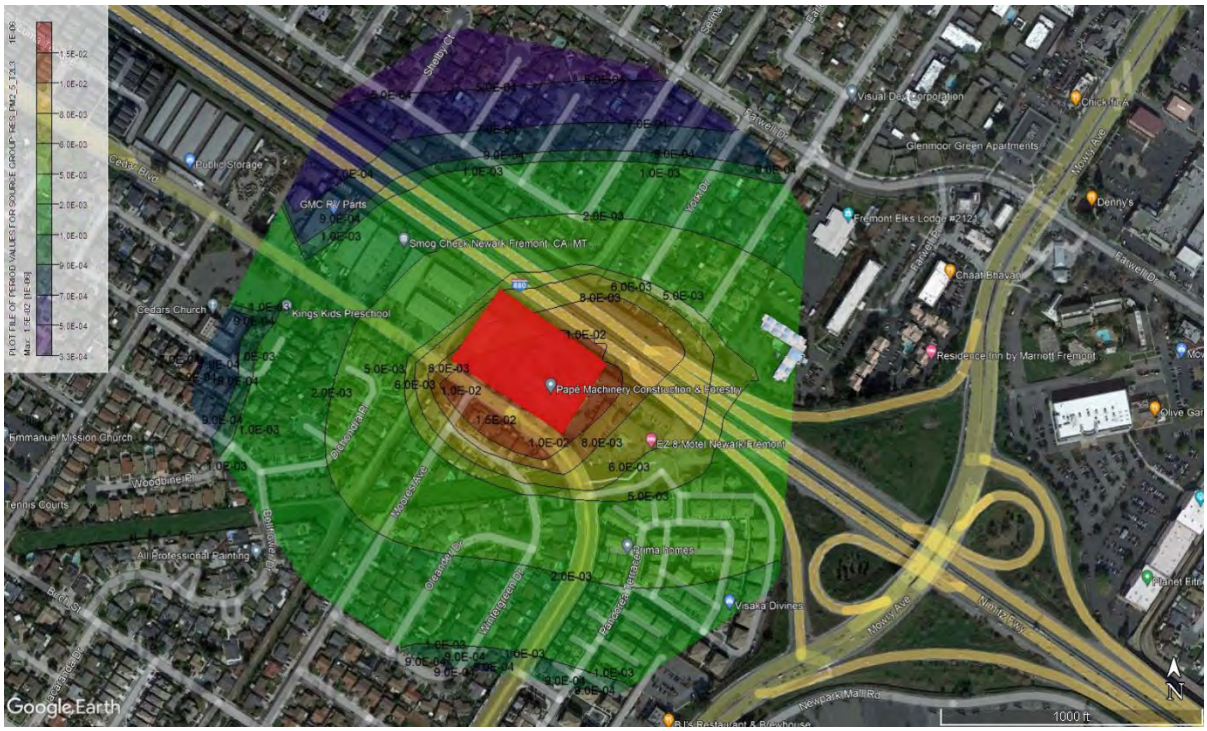
Mitigated Construction Cancer Risk



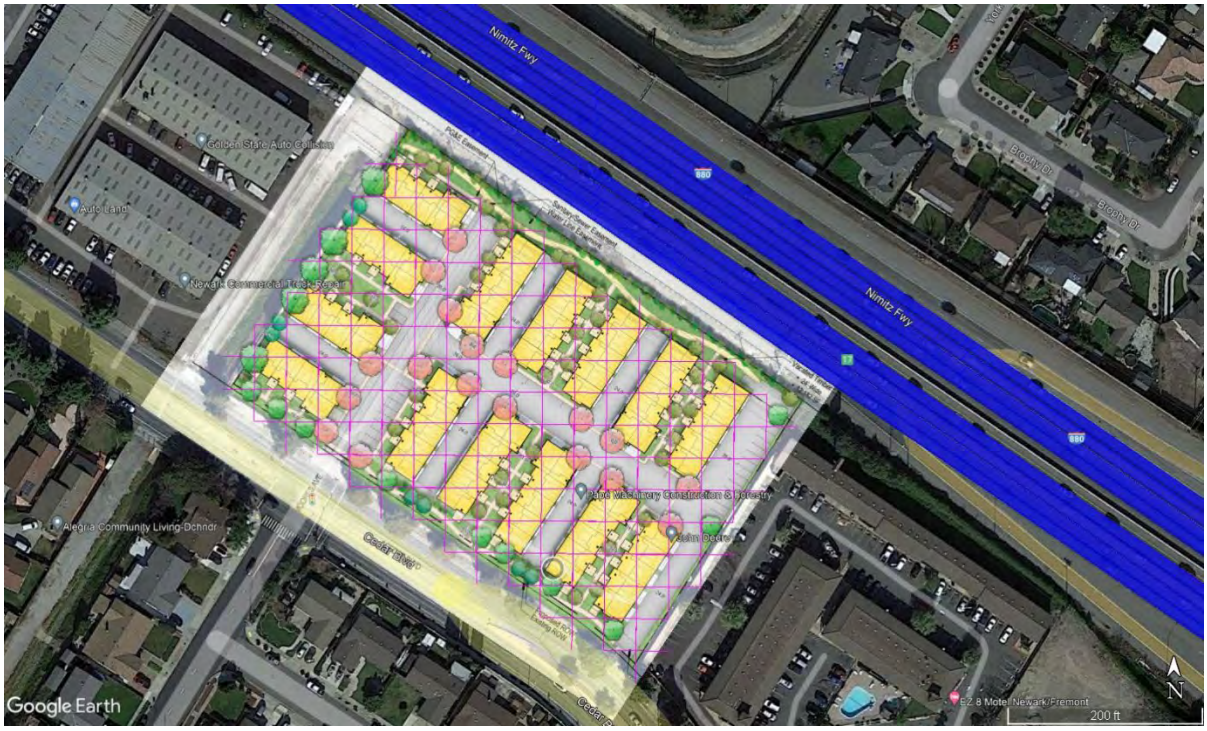
Mitigated Construction Chronic Hazard Index



Mitigated Construction $PM_{2.5}$ Concentrations



Operational Grid



Unmitigated Operational Cancer Risk



Mitigated Operational Cancer Risk



Operational Chronic Hazard Index



Operational Acute Hazard Index



Operational $PM_{2.5}$ Concentrations



Construction	Worker Receptor	Sensitive Receptor
Cancer Risk (in a Million)	1.13	20.74
Chronic HI	1.45E-02	2.04E-02
Acute HI	0.0	0.0
PM 2.5	0.068	0.096

Construction (T3)	Worker Receptor	Sensitive Receptor
Cancer Risk (in a Million)	1.49	27.63
Chronic HI	1.46E-02	2.07E-02
Acute HI	0.0	0.0
PM 2.5	0.138	0.195

Construction (T3L3)	Worker Receptor	Sensitive Receptor
Cancer Risk (in a Million)	0.24	4.29
Chronic HI	3.29E-03	4.64E-03
Acute HI	0.0	0.0
PM 2.5	0.011	0.016

Construction (T4)	Worker Receptor	Sensitive Receptor
Cancer Risk (in a Million)	0.14	2.62
Chronic HI	2.06E-03	2.91E-03
Acute HI	0.0	0.0
PM 2.5	0.006	0.009

Operational	UnMitigated	Mitigated*
30Yr Cancer Risk (in a Million)	45.83	6.88
70Yr Cancer Risk (in a Million)	53.95	8.09
Chronic HI	3.12E-01	
Acute HI	1.93E-02	
PM 2.5	0.0519	
*MERV 9 > 85% Control PM_{10}		

PM 10				
Tons/Yr	UM	T3	T3L3	T4
Year 1	0.0276	0.0561	4.47E-03	2.52E-03
Year 2	0.0655	0.0663	0.0149	9.33E-03
Year 3	0	0	0	0

PM 2.5				
Tons/Yr	UM	T3	T3L3	T4
Year 1	0.0258	0.0287	4.46E-03	2.51E-03
Year 2	0.0616	0.0956	0.0149	9.29E-03
Year 3	0	0	0	0

PM 10				
Lbs /Yr	UM	T3	T3L3	T4
Year 1	55.2	112.2	8.94	5.04
Year 2	131	132.6	29.8	18.66
Year 3	0	0	0	0

PM 2.5				
Lbs /Yr	UM	T3	T3L3	T4
Year 1	51.6	57.4	8.92	5.02
Year 2	123.2	191.2	29.8	18.58
Year 3	0	0	0	0

PM 10				
% Chng	UM	T3	T3L3	T4
Year 1	100%	203%	16%	9%
Year 2	100%	101%	23%	14%
Year 3	0%	0%	0%	0%

PM 2.5				
g/sec	UM	T3	T3L3	T4
Year 1	0.000742	0.000826	0.000128	7.22E-05
Year 2	0.001772	0.00275	0.000429	0.000267
Year 3	0	0	0	0

			UnMitigated				T3				T3L3				T4			
						2.07E-05				2.76E-05				4.29E-06				2.62E-06
			Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total
1	587690.9	4154241	5.84E-06	1.28E-05	0.00E+00	1.86E-05	1.19E-05	1.30E-05	0.00E+00	2.48E-05	9.46E-07	2.91E-06	0.00E+00	3.86E-06	5.33E-07	1.82E-06	0.00E+00	2.36E-06
2	587682.7	4154246	6.14E-06	1.34E-05	0.00E+00	1.96E-05	1.25E-05	1.36E-05	0.00E+00	2.61E-05	9.94E-07	3.06E-06	0.00E+00	4.05E-06	5.60E-07	1.92E-06	0.00E+00	2.48E-06
3	587674.5	4154251	6.34E-06	1.39E-05	0.00E+00	2.02E-05	1.29E-05	1.41E-05	0.00E+00	2.69E-05	1.03E-06	3.16E-06	0.00E+00	4.19E-06	5.79E-07	1.98E-06	0.00E+00	2.56E-06
4	587666.3	4154257	6.46E-06	1.41E-05	0.00E+00	2.06E-05	1.31E-05	1.43E-05	0.00E+00	2.74E-05	1.05E-06	3.22E-06	0.00E+00	4.26E-06	5.89E-07	2.02E-06	0.00E+00	2.60E-06
5	587658.1	4154262	6.50E-06	1.42E-05	0.00E+00	2.07E-05	1.32E-05	1.44E-05	0.00E+00	2.76E-05	1.05E-06	3.24E-06	0.00E+00	4.29E-06	5.93E-07	2.03E-06	0.00E+00	2.62E-06
6	587649.9	4154267	6.48E-06	1.42E-05	0.00E+00	2.07E-05	1.32E-05	1.44E-05	0.00E+00	2.75E-05	1.05E-06	3.23E-06	0.00E+00	4.28E-06	5.91E-07	2.02E-06	0.00E+00	2.61E-06
7	587641.7	4154272	6.38E-06	1.40E-05	0.00E+00	2.04E-05	1.30E-05	1.42E-05	0.00E+00	2.71E-05	1.03E-06	3.18E-06	0.00E+00	4.21E-06	5.82E-07	1.99E-06	0.00E+00	2.57E-06
8	587633.5	4154278	6.21E-06	1.36E-05	0.00E+00	1.98E-05	1.26E-05	1.38E-05	0.00E+00	2.64E-05	1.01E-06	3.10E-06	0.00E+00	4.10E-06	5.67E-07	1.94E-06	0.00E+00	2.51E-06
9	587625.3	4154283	5.98E-06	1.31E-05	0.00E+00	1.91E-05	1.22E-05	1.33E-05	0.00E+00	2.54E-05	9.69E-07	2.98E-06	0.00E+00	3.95E-06	5.46E-07	1.87E-06	0.00E+00	2.41E-06
10	587685.5	4154232	4.65E-06	1.02E-05	0.00E+00	1.49E-05	9.46E-06	1.03E-05	0.00E+00	1.98E-05	7.54E-07	2.32E-06	0.00E+00	3.07E-06	4.25E-07	1.45E-06	0.00E+00	1.88E-06
11	587677.3	4154237	4.88E-06	1.07E-05	0.00E+00	1.56E-05	9.93E-06	1.08E-05	0.00E+00	2.08E-05	7.91E-07	2.43E-06	0.00E+00	3.23E-06	4.46E-07	1.52E-06	0.00E+00	1.97E-06
12	587669.1	4154243	5.05E-06	1.11E-05	0.00E+00	1.61E-05	1.03E-05	1.12E-05	0.00E+00	2.15E-05	8.18E-07	2.52E-06	0.00E+00	3.34E-06	4.61E-07	1.58E-06	0.00E+00	2.04E-06
13	587660.9	4154248	5.16E-06	1.13E-05	0.00E+00	1.65E-05	1.05E-05	1.14E-05	0.00E+00	2.19E-05	8.36E-07	2.57E-06	0.00E+00	3.41E-06	4.71E-07	1.61E-06	0.00E+00	2.08E-06
14	587652.7	4154253	5.21E-06	1.14E-05	0.00E+00	1.66E-05	1.06E-05	1.16E-05	0.00E+00	2.21E-05	8.44E-07	2.60E-06	0.00E+00	3.44E-06	4.76E-07	1.63E-06	0.00E+00	2.10E-06
15	587644.5	4154259	5.21E-06	1.14E-05	0.00E+00	1.66E-05	1.06E-05	1.16E-05	0.00E+00	2.21E-05	8.43E-07	2.60E-06	0.00E+00	3.44E-06	4.75E-07	1.63E-06	0.00E+00	2.10E-06
16	587636.2	4154264	5.16E-06	1.13E-05	0.00E+00	1.65E-05	1.05E-05	1.14E-05	0.00E+00	2.19E-05	8.35E-07	2.57E-06	0.00E+00	3.41E-06	4.71E-07	1.61E-06	0.00E+00	2.08E-06
17	587628	4154269	5.04E-06	1.11E-05	0.00E+00	1.61E-05	1.03E-05	1.12E-05	0.00E+00	2.14E-05	8.17E-07	2.52E-06	0.00E+00	3.33E-06	4.61E-07	1.57E-06	0.00E+00	2.04E-06
18	587619.8	4154275	4.88E-06	1.07E-05	0.00E+00	1.56E-05	9.92E-06	1.08E-05	0.00E+00	2.07E-05	7.90E-07	2.43E-06	0.00E+00	3.22E-06	4.46E-07	1.52E-06	0.00E+00	1.97E-06
19	587680.1	4154224	3.81E-06	8.36E-06	0.00E+00	1.22E-05	7.75E-06	8.46E-06	0.00E+00	1.62E-05	6.18E-07	1.90E-06	0.00E+00	2.52E-06	3.48E-07	1.19E-06	0.00E+00	1.54E-06
20	587671.9	4154229	4.00E-06	8.76E-06	0.00E+00	1.28E-05	8.12E-06	8.87E-06	0.00E+00	1.70E-05	6.47E-07	1.99E-06	0.00E+00	2.64E-06	3.65E-07	1.25E-06	0.00E+00	1.61E-06
21	587663.7	4154234	4.14E-06	9.07E-06	0.00E+00	1.32E-05	8.41E-06	9.18E-06	0.00E+00	1.76E-05	6.70E-07	2.06E-06	0.00E+00	2.73E-06	3.78E-07	1.29E-06	0.00E+00	1.67E-06
22	587655.4	4154240	4.24E-06	9.28E-06	0.00E+00	1.35E-05	8.61E-06	9.40E-06	0.00E+00	1.80E-05	6.86E-07	2.11E-06	0.00E+00	2.80E-06	3.87E-07	1.32E-06	0.00E+00	1.71E-06
23	587647.2	4154245	4.29E-06	9.40E-06	0.00E+00	1.37E-05	8.72E-06	9.51E-06	0.00E+00	1.82E-05	6.95E-07	2.14E-06	0.00E+00	2.83E-06	3.92E-07	1.34E-06	0.00E+00	1.73E-06
24	587639	4154250	4.30E-06	9.43E-06	0.00E+00	1.37E-05	8.74E-06	9.54E-06	0.00E+00	1.83E-05	6.97E-07	2.14E-06	0.00E+00	2.84E-06	3.93E-07	1.34E-06	0.00E+00	1.74E-06
25	587630.8	4154256	4.27E-06	9.36E-06	0.00E+00	1.36E-05	8.68E-06	9.47E-06	0.00E+00	1.82E-05	6.92E-07	2.13E-06	0.00E+00	2.82E-06	3.90E-07	1.33E-06	0.00E+00	1.72E-06
26	587622.6	4154261	4.19E-06	9.19E-06	0.00E+00	1.34E-05	8.53E-06	9.31E-06	0.00E+00	1.78E-05	6.79E-07	2.09E-06	0.00E+00	2.77E-06	3.83E-07	1.31E-06	0.00E+00	1.69E-06
27	587614.4	4154266	4.08E-06	8.95E-06	0.00E+00	1.30E-05	8.30E-06	9.06E-06	0.00E+00	1.74E-05	6.62E-07	2.04E-06	0.00E+00	2.70E-06	3.73E-07	1.28E-06	0.00E+00	1.65E-06
28	587674.7	4154215	3.19E-06	7.00E-06	0.00E+00	1.02E-05	6.49E-06	7.08E-06	0.00E+00	1.36E-05	5.17E-07	1.59E-06	0.00E+00	2.11E-06	2.92E-07	9.97E-07	0.00E+00	1.29E-06
29	587666.4	4154221	3.34E-06	7.32E-06	0.00E+00	1.07E-05	6.79E-06	7.41E-06	0.00E+00	1.42E-05	5.41E-07	1.67E-06	0.00E+00	2.21E-06	3.05E-07	1.04E-06	0.00E+00	1.35E-06
30	587658.2	4154226	3.46E-06	7.59E-06	0.00E+00	1.10E-05	7.04E-06	7.68E-06	0.00E+00	1.47E-05	5.61E-07	1.73E-06	0.00E+00	2.29E-06	3.16E-07	1.08E-06	0.00E+00	1.40E-06
31	587655.6	4154204	2.45E-06	5.38E-06	0.00E+00	7.83E-06	4.99E-06	5.44E-06	0.00E+00	1.04E-05	3.97E-07	1.22E-06	0.00E+00	1.62E-06	2.24E-07	7.66E-07	0.00E+00	9.90E-07
32	587647.4	4154209	2.54E-06	5.57E-06	0.00E+00	8.11E-06	5.17E-06	5.64E-06	0.00E+00	1.08E-05	4.12E-07	1.27E-06	0.00E+00	1.68E-06	2.32E-07	7.93E-07	0.00E+00	1.03E-06
33	587639.2	4154215	2.61E-06	5.73E-06	0.00E+00	8.34E-06	5.31E-06	5.80E-06	0.00E+00	1.11E-05	4.23E-07	1.30E-06	0.00E+00	1.73E-06	2.39E-07	8.16E-07	0.00E+00	1.05E-06
34	587630.9	4154220	2.66E-06	5.84E-06	0.00E+00	8.50E-06	5.42E-06	5.91E-06	0.00E+00	1.13E-05	4.31E-07	1.33E-06	0.00E+00	1.76E-06	2.43E-07	8.32E-07	0.00E+00	1.07E-06
35	587622.7	4154225	2.69E-06	5.90E-06	0.00E+00	8.59E-06	5.47E-06	5.97E-06	0.00E+00	1.14E-05	4.36E-07	1.34E-06	0.00E+00	1.78E-06	2.46E-07	8.40E-07	0.00E+00	1.09E-06
36	587614.5	4154230	2.70E-06	5.91E-06	0.00E+00	8.61E-06	5.48E-06	5.98E-06	0.00E+00	1.15E-05	4.37E-07	1.34E-06	0.00E+00	1.78E-06	2.46E-07	8.42E-07	0.00E+00	1.09E-06
37	587606.3	4154236	2.68E-06	5.88E-06	0.00E+00	8.56E-06	5.45E-06	5.95E-06	0.00E+00	1.14E-05	4.35E-07	1.34E-06	0.00E+00	1.77E-06	2.45E-07	8.38E-07	0.00E+00	1.08E-06
38	587598.1	4154241	2.65E-06	5.81E-06	0.00E+00	8.47E-06	5.39E-06	5.89E-06	0.00E+00	1.13E-05	4.30E-07	1.32E-06	0.00E+00	1.75E-06	2.42E-07	8.28E-07	0.00E+00	1.07E-06
39	587641.9	4154201	2.22E-06	4.86E-06	0.00E+00	7.08E-06	4.51E-06	4.92E-06	0.00E+00	9.44E-06	3.59E-07	1.11E-06	0.00E+00	1.47E-06	2.03E-07	6.93E-07	0.00E+00	8.96E-07
40	587633.7	4154206	2.28E-06	5.01E-06	0.00E+00	7.29E-06	4.64E-06	5.07E-06	0.00E+00	9.71E-06	3.70E-07	1.14E-06	0.00E+00	1.51E-06	2.09E-07	7.13E-07	0.00E+00	9.22E-07
41	587625.5	4154211	2.33E-06	5.11E-06	0.00E+00	7.44E-06	4.74E-06	5.17E-06	0.00E+00	9.91E-06	3.78E-07	1.16E-06	0.00E+00	1.54E-06	2.13E-07	7.28E-07	0.00E+00	9.41E-07
42	587617.3	4154217	2.36E-06	5.17E-06	0.00E+00	7.54E-06	4.80E-06	5.24E-06	0.00E+00	1.00E-05	3.82E-07	1.18E-06	0.00E+00	1.56E-06	2.16E-07	7.37E-07	0.00E+00	9.53E-07
43	587609.1	4154222	2.37E-06	5.20E-06	0.00E+00	7.58E-06	4.83E-06	5.27E-06	0.00E+00	1.01E-05	3.84E-07	1.18E-06	0.00E+00	1.57E-06	2.17E-07	7.41E-07	0.00E+00	9.58E-07
44	587600.9	4154227	2.37E-06	5.20E-06	0.00E+00	7.57E-06	4.82E-06	5.26E-06	0.00E+00	1.01E-05	3.84E-07	1.18E-06	0.00E+00	1.57E-06	2.16E-07	7.40E-07	0.00E+00	9.57E-07
45	587592.7	4154233	2.35E-06	5.16E-06	0.00E+00	7.52E-06	4.79E-06	5.22E-06	0.00E+00	1.00E-05	3.81E-07	1.17E-06	0.00E+00	1.56E-06	2.15E-07	7.35E-07	0.00E+00	9.50E-07
46	587628.3	4154198	2.02E-06	4.42E-06	0.00E+00	6.44E-06	4.10E-06	4.47E-06	0.00E+00	8.57E-06	3.27E-07	1.01E-06	0.00E+00	1.33E-06	1.84E-07	6.30E-07	0.00E+00	8.14E-07
47	587620.1	4154203	2.06E-06	4.52E-06	0.00E+00	6.58E-06	4.19E-06	4.57E-06	0.00E+00	8.76E-06	3.34E-07	1.03E-06	0.00E+00	1.36E-06	1.88E-07	6.43E-07	0.00E+00	8.32E-07
48	587611.9	4154208	2.09E-06	4.58E-06	0.00E+00	6.68E-06	4.25E-06	4.64E-06	0.00E+00	8.89E-06	3.39E-07	1.04E-06	0.00E+00	1.38E-06	1.91E-07	6.53E-07	0.00E+00	8.44E-07
49	587603.6	4154214	2.11E-06	4.62E-06	0.00E+00	6.73E-06	4.29E-06	4.68E-06	0.00E+00	8.96E-06	3.42E-07	1.05E-06	0.00E+00	1.39E-06	1.93E-07	6.58E-07	0.00E+00	8.51E-07
50	587595.4	4154219	2.11E-06	4.64E-06	0.00E+00	6.75E-06	4.30E-06	4.69E-06	0.00E+00	8.99E-06	3.43E-07	1.05E-06	0.00E+00	1.40E-06	1.93E-07	6.60E-07	0.00E+00	8.53E-07
51	587587.2	4154224	2.11E-06	4.62E-06	0.00E+00	6.73E-06	4.28E-06	4.67E-06	0.00E+00	8.96E-06	3.41E-07	1.05E-06	0.00E+00	1.39E-06	1.92E-07	6.58E-07	0.00E+00	8.50E-07
52	587647.5	4154173	1.62E-06	3.55E-06	0.00E+00	5.17E-06	3.29E-06	3.59E-06	0.00E+00	6.88E-06	2.62E-07	8.07E-07	0.00E+00	1.07E-06	1.48E-07	5.06E-07	0.00E+00	6.53E-07
53	587606.4	4154200	1.87E-06	4.10E-06	0.00E+00	5.97E-06	3.80E-06	4.15E-06	0.00E+00	7.95E-06	3.03E-07	9.33E-07	0.00E+00	1.24E-06	1.71E-07	5.84E-07	0.00E+00	7.55E-07
54	587598.2	4154205	1.89E-06	4.14E-06	0.00E+00	6.03E-06	3.84E-06	4.19E-06	0.00E+00	8.04E-06	3.06E-07	9.42E-07	0.00E+00	1.25E-06	1.73E-07	5.90E-07	0.00E+00	7.63E-07
55	587590	4154211	1.90E-06	4.17E-06	0.00E+00	6.07E-06	3.86E-06	4.22E-06	0.00E+00	8.08E-06	3.08E-07	9.48E-07	0.00E+00	1.26E-06	1.74E-07	5.93E-07	0.00E+00	7.67E-07
56	587581.8	4154216	1.90E-06	4.16E-06	0.00E+00	6.06E-06	3.86E-06	4.21E-06	0.00E+00	8.07E-06	3.07E-07	9.47E-07	0.00E+00	1.25E-06	1.73E-07	5.93E-07	0.00E+00	7.66E-07
57	587642.1	4154165	1.46E-06	3.19E-06	0.00E+00	4.64E-06	2.96E-06	3.23E-06	0.00E+00	6.19E-06	2.36E-07	7.26E-07	0.00E+00	9.61E-07	1.33E-07	4.54E-07	0.00E+00	5.87E-07
58	587633.8	4154170	1.51E-06	3.31E-06	0.00E+00	4.83E-06	3.07E-06	3.36E-06	0.00E+00	6.43E-06	2.45E-07	7.54E-07	0.00E+00	9.99E-07	1.38E-07	4.72E-07	0.00E+00	6.10E-07
59	587592.8	4154197	1.71E-06	3.74E-06	0.00E+00	5.45E-06	3.47E-06	3.79E-06	0.00E+00	7.26E-06	2.77E-07	8.51E-07	0.00E+00	1.13E-06	1.56E-07	5.33E-07	0.00E+00	6.89E-07
60	587584.6	4154202	1.72E-06	3.77E-06	0.00E+00	5.49E-06	3.49E-06	3.81E-06	0.00E+00	7.31E-06	2.78E-07	8.57E-07	0.00E+00	1.14E-06	1.57E-07	5.37E-07	0.00E+00	6.94E-07
61	587576.4	4154208	1.72E-06	3.77E-06	0.00E+00	5.49E-06	3.50E-06	3.82E-06	0.00E+00	7.32E-06	2.79E-07	8.58E-07	0.00E+00	1.14E-06	1.57E-07	5.37E-07	0.00E+00	6.94E-07
62	587636.6	4154157	1.32E-06	2.89E-06	0.00E+00	4.20E-06	2.68E-06	2.92E-06	0.00E+00	5.60E-06	2.13E-07	6.56E-07	0.00E+00	8.70E-07	1.20E-07	4.11E-07	0.00E+00	5.31E-07
63	587628.4	4154162	1.37E-06	3.00E-06	0.00E+00	4.37E-06	2.78E-06	3.03E-06	0.00E+00	5.81E-06	2.21E-07	6.82E-07	0.00E+00	9.03E-07	1.25E-07	4.27E-07	0.00E+00	5.52E-07
64	587620.2	4154167	1.42E-06	3.10E-06	0.00E+00	4.52E-06	2.88E-06	3.14E-06	0.00E+00	6.02E-06	2.29E-07	7.06E-07	0.00E+00	9.35E-07	1.29E-07	4.42E-07	0.00E+00	5.71E-07
65	587579.1	4154194	1.56E-06	3.43E-06	0.00E+00	4.99E-06	3.18E-06	3.47E-06	0.00E+00	6.65E-06	2.53E-07	7.79E-07	0.00E+00	1.03E-06	1.43E-07	4.88E-07	0.00E+00	6.31E-07
66	587570.9	4154199	1.57E-06	3.44E-06	0.00E+00	5.00E-06	3.19E-06	3.48E-06	0.00E+00	6.66E-06	2.54E-07	7.82E-07	0.00E+00	1.04E-06	1.43E-07	4.89E-07	0.00E+00	6.33E-07
67	587631.2	4154148	1.20E-06	2.63E-06	0.00E+00	3.83E-06	2.44E-06	2.66E-06	0.00E+00	5.10E-06	1.94E-07	5.98E-07	0.00E+00	7.92E-07	1.09E-07	3.74E-07	0.00E+00	4.84E-07
68	587623	4154154	1.24E-06	2.73E-06	0.00E+00	3.97E-06	2.53E-06	2.76E-06	0.00E+00	5.29E-06	2.02E-07	6.20E-07	0.00E+00	8.22E-07	1.14E-07	3.88E-07	0.00E+00	5.02E-07
69	587614.8	4154159	1.29E-06	2.82E-06	0.00E+00	4.11E-06	2.62E-06	2.86E-06	0.00E+00	5.47E-06	2.09E-07	6.42E-07	0.00E+00	8.51E-07	1.18E-07	4.02E-07	0.00E+00	5.20E-07
70	587606.6	4154164	1.33E-06	2.91E-06	0.00E+00	4.24E-06	2.70E-06	2.95E-06	0.00E+00	5.65E-06	2.15E-07	6.62E-07	0.00E+00	8.77E-07	1.21E-07	4.15E-07	0.00E+00	5.36E-07
71	587598.3	4154169	1.36E-06	2.99E-06	0.00E+00	4.35E-06	2.77E-06	3.02E-06	0.00E+00	5.80E-06	2.21E-07	6.80E-07	0.00E+00	9.01E-07	1.24E-07	4.26E-07	0.00E+00	5.50E-07
72	587565.5	4154191	1.43E-06	3.14E-06	0.00E+00	4.58E-06	2.92E-06	3.18E-06	0.00E+00	6.10E-06	2.32E-07	7.15E-07	0.00E+00	9.48E-07	1.31E-07	4.48E-07	0.00E+00	5.79E-07
73	587625.8	4154140	1.10E-06	2.41E-06	0.00E+00	3.50E-06	2.23E-06	2.43E-06	0.00E+00	4.67E-06	1.78E-07	5.47E-07	0.00E+00	7.25E-07	1.00E-07	3.43E-07	0.00E+00	4.43E-07
74	587617.6	4154145	1.14E-06	2.49E-06	0.00E+00	3.63E-06	2.31E-06	2.53E-06	0.00E+00	4.84E-06	1.84E-07	5.68E-07	0.00E+00	7.52E-07	1.04E-07	3.55E-07	0.00E+00	4.59E-07
75	587609.3	4154150	1.18E-06	2.58E-06	0.00E+00	3.76E-06	2.39E-06	2.61E-06	0.00E+00	5.01E-06	1.91E-07	5.87E-07	0.00E+00	7.78E-07	1.08E-07	3.68E-07	0.00E+00	4.75E-07
76	587601.1	4154156	1.21E-06	2.66E-06	0.00E+00	3.88E-06	2.47E-06	2.69E-06	0.00E+00	5.16E-06	1.97E-07	6.05E-07	0.00E+00	8.02E-07	1.11E-07	3.79E-07	0.00E+00	4.90E-07
77	587592.9	4154161	1.25E-06	2.73E-06	0.00E+00	3.98E-06	2.53E-06	2.77E-06	0.00E+00	5.30E-06	2.02E-07	6.21E-07	0.00E+00	8.23E-07	1.14E-07	3.89E-07	0.00E+00	5.03E-07
78	587584.7	4154166	1.27E-06	2.79E-06	0.00E+00	4.06E-06	2.59E-06	2.83E-06	0.00E+00	5.41E-06	2.06E-07	6.35E-07	0.00E+00	8.41E-07	1.16E-07	3.98E-07	0.00E+00	5.14E-07
79	587612.1	4154137	1.05E-06	2.29E-06	0.00E+00	3.34E-06	2.13E-06	2.32E-06	0.00E+00	4.45E-06	1.69E-07	5.22E-07	0.00E+00	6.91E-07	9.56E-08	3.27E-07	0.00E+00	4.22E-07
80	587603.9	4154142	1.08E-06	2.37E-06	0.00E+00	3.45E-06	2.20E-06	2.40E-06	0.00E+00	4.60E-06	1.75E-07	5.40E-07	0.00E+00	7.15E-07	9.88E-08	3.38E-07	0.00E+00	4.37E-07
81	587595.7	4154147	1.12E-06	2.44E-06	0.00E+00	3.56E-06	2.27E-06	2.47E-06	0.00E+00	4.74E-06	1.81E-07	5.56E-07	0.00E+00	7.37E-07	1.02E-07	3.48E-07	0.00E+00	4.50E-07
82	587587.5	4154153	1.14E-06	2.51E-06	0.00E+00	3.65E-06	2.33E-06	2.54E-06	0.00E+00	4.87E-06	1.85E-07	5.71E-07	0.00E+00	7.56E-07	1.05E-07	3.57E-07	0.00E+00	4.62E-07
83	587579.3	4154158	1.17E-06	2.56E-06	0.00E+00	3.73E-06	2.38E-06	2.60E-06	0.00E+00	4.97E-06	1.89E-07	5.83E-07	0.00E+00	7.73E-07	1.07E-07	3.65E-07	0.00E+00	4.72E-07
84	587571.1	4154163	1.19E-06	2.61E-06	0.00E+00	3.80E-06	2.42E-06	2.64E-06	0.00E+00	5.06E-06	1.93E-07	5.94E-07	0.00E+00	7.86E-07	1.09E-07	3.72E-07	0.00E+00	4.80E-07
85	587606.7	4154128	9.66E-07	2.12E-06	0.00E+00	3.08E-06	1.96E-06	2.14E-06	0.00E+00	4.11E-06	1.56E-07	4.82E-07	0.00E+00	6.38E-07	8.82E-08	3.02E-07	0.00E+00	3.90E-07
86	587598.5	4154134	9.98E-07	2.19E-06	0.00E+00	3.19E-06	2.03E-06	2.21E-06	0.00E+00	4.24E-06	1.62E-07	4.98E-07	0.00E+00	6.59E-07	9.12E-08	3.12E-07	0.00E+00	4.03E-07
87	587590.3	4154139	1.03E-06	2.25E-06	0.00E+00	3.28E-06	2.09E-06	2.28E-06	0.00E+00	4.37E-06	1.67E-07	5.13E-07	0.00E+00	6.79E-07	9.39E-08	3.21E-07	0.00E+00	4.15E-07
88	587582	4154144	1.06E-06	2.31E-06	0.00E+00	3.37E-06	2.15E-06	2.34E-06	0.00E+00	4.49E-06	1.71E-07	5.26E-07	0.00E+00	6.97E-07	9.64E-08	3.30E-07	0.00E+00	4.26E-07
89	587573.8	4154150	1.08E-06	2.37E-06	0.00E+00	3.44E-06	2.19E-06	2.39E-06	0.00E+00	4.59E-06	1.75E-07	5.38E-07	0.00E+00	7.13E-07	9.85E-08	3.37E-07	0.00E+00	4.35E-07
90	587565.6	4154155	1.10E-06	2.41E-06	0.00E+00	3.51E-06	2.24E-06	2.44E-06	0.00E+00	4.67E-06	1.78E-07	5.48E-07	0.00E+00	7.26E-07	1.00E-07	3.43E-07	0.00E+00	4.44E-07
91	587557.4	4154160	1.12E-06	2.44E-06	0.00E+00	3.56E-06	2.27E-06	2.47E-06	0.00E+00	4.74E-06	1.81E-07	5.56E-07	0.00E+00	7.37E-07	1.02E-07	3.48E-07	0.00E+00	4.50E-07
92	587593	4154125	9.25E-07	2.03E-06	0.00E+00	2.95E-06	1.88E-06	2.05E-06	0.00E+00	3.93E-06	1.50E-07	4.61E-07	0.00E+00	6.11E-07	8.44E-08	2.89E-07	0.00E+00	3.73E-07
93	587584.8	4154131	9.52E-07	2.09E-06	0.00E+00	3.04E-06	1.93E-06	2.11E-06	0.00E+00	4.05E-06	1.54E-07	4.75E-07	0.00E+00	6.29E-07	8.69E-08	2.97E-07	0.00E+00	3.84E-07
94	587576.6	4154136	9.77E-07	2.14E-06	0.00E+00	3.12E-06	1.99E-06	2.17E-06	0.00E+00	4.15E-06	1.58E-07	4.87E-07	0.00E+00	6.45E-07	8.92E-08	3.05E-07	0.00E+00	3.94E-07
95	587568.4	4154141	1.00E-06	2.19E-06	0.00E+00	3.19E-06	2.03E-06	2.22E-06	0.00E+00	4.25E-06	1.62E-07	4.98E-07	0.00E+00	6.60E-07	9.13E-08	3.12E-07	0.00E+00	4.03E-07
96	587560.2	4154147	1.02E-06	2.23E-06	0.00E+00	3.25E-06	2.07E-06	2.26E-06	0.00E+00	4.33E-06	1.65E-07	5.08E-07	0.00E+00	6.73E-07	9.30E-08	3.18E-07	0.00E+00	4.11E-07
97	587552	4154152	1.03E-06	2.27E-06	0.00E+00	3.30E-06	2.10E-06	2.29E-06	0.00E+00	4.40E-06	1.68E-07	5.16E-07	0.00E+00	6.83E-07	9.44E-08	3.23E-07	0.00E+00	4.17E-07
98	587543.8	4154157	1.04E-06	2.29E-06	0.00E+00	3.33E-06	2.12E-06	2.32E-06	0.00E+00	4.44E-06	1.69E-07	5.21E-07	0.00E+00	6.90E-07	9.54E-08	3.26E-07	0.00E+00	4.22E-07
99	587604	4154106	8.06E-07	1.77E-06	0.00E+00	2.57E-06	1.64E-06	1.79E-06	0.00E+00	3.42E-06	1.30E-07	4.02E-07	0.00E+00	5.32E-07	7.36E-08	2.52E-07	0.00E+00	3.25E-07
100	587587.6	4154117	8.59E-07	1.88E-06	0.00E+00	2.74E-06	1.75E-06	1.91E-06	0.00E+00	3.65E-06	1.39E-07	4.28E-07	0.00E+00	5.67E-07	7.84E-08	2.68E-07	0.00E+00	3.47E-07
101	587579.4	4154122	8.84E-07	1.94E-06	0.00E+00	2.82E-06	1.80E-06	1.96E-06	0.00E+00	3.76E-06	1.43E-07	4.41E-07	0.00E+00	5.84E-07	8.07E-08	2.76E-07	0.00E+00	3.57E-07
102	587571.2	4154127	9.08E-07	1.99E-06	0.00E+00	2.90E-06	1.84E-06	2.01E-06	0.00E+00	3.86E-06	1.47E-07	4.52E-07	0.00E+00	5.99E-07	8.29E-08	2.83E-07	0.00E+00	3.66E-07
103	587563	4154133	9.29E-07	2.04E-06	0.00E+00	2.97E-06	1.89E-06	2.06E-06	0.00E+00	3.95E-06	1.50E-07	4.63E-07	0.00E+00	6.14E-07	8.48E-08	2.90E-07	0.00E+00	3.75E-07
104	587554.8	4154138	9.48E-07	2.08E-06	0.00E+00	3.02E-06	1.93E-06	2.10E-06	0.00E+00	4.03E-06	1.53E-07	4.72E-07	0.00E+00	6.26E-07	8.65E-08	2.96E-07	0.00E+00	3.82E-07
105	587546.5	4154143	9.62E-07	2.11E-06	0.00E+00	3.07E-06	1.96E-06	2.13E-06	0.00E+00	4.09E-06	1.56E-07	4.80E-07	0.00E+00	6.36E-07	8.79E-08	3.00E-07	0.00E+00	3.88E-07
106	587538.3	4154149	9.73E-07	2.13E-06	0.00E+00	3.10E-06	1.98E-06	2.16E-06	0.00E+00	4.14E-06	1.58E-07	4.85E-07	0.00E+00	6.43E-07	8.88E-08	3.04E-07	0.00E+00	3.93E-07
107	587582.2	4154108	8.01E-07	1.76E-06	0.00E+00	2.56E-06	1.63E-06	1.78E-06	0.00E+00	3.40E-06	1.30E-07	3.99E-07	0.00E+00	5.29E-07	7.31E-08	2.50E-07	0.00E+00	3.23E-07

108	587574	4154114	8.24E-07	1.81E-06	0.00E+00	2.63E-06	1.67E-06	1.83E-06	0.00E+00	3.50E-06	1.33E-07	4.11E-07	0.00E+00	5.44E-07	7.52E-08	2.57E-07	0.00E+00	3.32E-07
109	587565.8	4154119	8.46E-07	1.85E-06	0.00E+00	2.70E-06	1.72E-06	1.88E-06	0.00E+00	3.60E-06	1.37E-07	4.22E-07	0.00E+00	5.59E-07	7.72E-08	2.64E-07	0.00E+00	3.41E-07
110	587557.5	4154124	8.66E-07	1.90E-06	0.00E+00	2.76E-06	1.76E-06	1.92E-06	0.00E+00	3.68E-06	1.40E-07	4.32E-07	0.00E+00	5.72E-07	7.91E-08	2.70E-07	0.00E+00	3.49E-07
111	587549.3	4154130	8.83E-07	1.94E-06	0.00E+00	2.82E-06	1.80E-06	1.96E-06	0.00E+00	3.76E-06	1.43E-07	4.40E-07	0.00E+00	5.83E-07	8.07E-08	2.76E-07	0.00E+00	3.56E-07
112	587541.1	4154135	8.98E-07	1.97E-06	0.00E+00	2.86E-06	1.82E-06	1.99E-06	0.00E+00	3.82E-06	1.45E-07	4.48E-07	0.00E+00	5.93E-07	8.20E-08	2.80E-07	0.00E+00	3.62E-07
113	587532.9	4154140	9.08E-07	1.99E-06	0.00E+00	2.90E-06	1.85E-06	2.01E-06	0.00E+00	3.86E-06	1.47E-07	4.53E-07	0.00E+00	6.00E-07	8.29E-08	2.84E-07	0.00E+00	3.66E-07
114	587576.7	4154100	7.49E-07	1.64E-06	0.00E+00	2.39E-06	1.52E-06	1.66E-06	0.00E+00	3.18E-06	1.21E-07	3.73E-07	0.00E+00	4.95E-07	6.84E-08	2.34E-07	0.00E+00	3.02E-07
115	587568.5	4154105	7.70E-07	1.69E-06	0.00E+00	2.46E-06	1.57E-06	1.71E-06	0.00E+00	3.28E-06	1.25E-07	3.84E-07	0.00E+00	5.09E-07	7.03E-08	2.41E-07	0.00E+00	3.11E-07
116	587560.3	4154111	7.91E-07	1.73E-06	0.00E+00	2.52E-06	1.61E-06	1.75E-06	0.00E+00	3.36E-06	1.28E-07	3.94E-07	0.00E+00	5.22E-07	7.22E-08	2.47E-07	0.00E+00	3.19E-07
117	587552.1	4154116	8.09E-07	1.77E-06	0.00E+00	2.58E-06	1.65E-06	1.80E-06	0.00E+00	3.44E-06	1.31E-07	4.04E-07	0.00E+00	5.35E-07	7.39E-08	2.53E-07	0.00E+00	3.27E-07
118	587543.9	4154121	8.26E-07	1.81E-06	0.00E+00	2.64E-06	1.68E-06	1.83E-06	0.00E+00	3.51E-06	1.34E-07	4.12E-07	0.00E+00	5.45E-07	7.54E-08	2.58E-07	0.00E+00	3.33E-07
119	587535.7	4154127	8.39E-07	1.84E-06	0.00E+00	2.68E-06	1.71E-06	1.86E-06	0.00E+00	3.57E-06	1.36E-07	4.18E-07	0.00E+00	5.54E-07	7.66E-08	2.62E-07	0.00E+00	3.39E-07
120	587571.3	4154092	7.02E-07	1.54E-06	0.00E+00	2.24E-06	1.43E-06	1.56E-06	0.00E+00	2.98E-06	1.14E-07	3.50E-07	0.00E+00	4.64E-07	6.41E-08	2.19E-07	0.00E+00	2.83E-07
121	587563.1	4154097	7.22E-07	1.58E-06	0.00E+00	2.31E-06	1.47E-06	1.60E-06	0.00E+00	3.07E-06	1.17E-07	3.60E-07	0.00E+00	4.77E-07	6.59E-08	2.25E-07	0.00E+00	2.91E-07
122	587554.9	4154102	7.41E-07	1.62E-06	0.00E+00	2.37E-06	1.51E-06	1.64E-06	0.00E+00	3.15E-06	1.20E-07	3.70E-07	0.00E+00	4.90E-07	6.77E-08	2.31E-07	0.00E+00	2.99E-07
123	587546.7	4154108	7.59E-07	1.66E-06	0.00E+00	2.42E-06	1.54E-06	1.68E-06	0.00E+00	3.22E-06	1.23E-07	3.78E-07	0.00E+00	5.01E-07	6.93E-08	2.37E-07	0.00E+00	3.06E-07
124	587538.5	4154113	7.74E-07	1.70E-06	0.00E+00	2.47E-06	1.57E-06	1.72E-06	0.00E+00	3.29E-06	1.25E-07	3.86E-07	0.00E+00	5.11E-07	7.07E-08	2.42E-07	0.00E+00	3.12E-07
125	587530.3	4154118	7.87E-07	1.72E-06	0.00E+00	2.51E-06	1.60E-06	1.75E-06	0.00E+00	3.35E-06	1.27E-07	3.92E-07	0.00E+00	5.20E-07	7.18E-08	2.46E-07	0.00E+00	3.18E-07
126	587565.9	4154083	6.60E-07	1.45E-06	0.00E+00	2.11E-06	1.34E-06	1.46E-06	0.00E+00	2.81E-06	1.07E-07	3.29E-07	0.00E+00	4.36E-07	6.03E-08	2.06E-07	0.00E+00	2.66E-07
127	587557.7	4154089	6.79E-07	1.49E-06	0.00E+00	2.17E-06	1.38E-06	1.51E-06	0.00E+00	2.89E-06	1.10E-07	3.38E-07	0.00E+00	4.48E-07	6.20E-08	2.12E-07	0.00E+00	2.74E-07
128	587549.5	4154094	6.96E-07	1.53E-06	0.00E+00	2.22E-06	1.42E-06	1.54E-06	0.00E+00	2.96E-06	1.13E-07	3.47E-07	0.00E+00	4.60E-07	6.36E-08	2.17E-07	0.00E+00	2.81E-07
129	587541.2	4154099	7.13E-07	1.56E-06	0.00E+00	2.27E-06	1.45E-06	1.58E-06	0.00E+00	3.03E-06	1.15E-07	3.55E-07	0.00E+00	4.71E-07	6.51E-08	2.22E-07	0.00E+00	2.87E-07
130	587533	4154105	7.27E-07	1.59E-06	0.00E+00	2.32E-06	1.48E-06	1.61E-06	0.00E+00	3.09E-06	1.18E-07	3.62E-07	0.00E+00	4.80E-07	6.64E-08	2.27E-07	0.00E+00	2.93E-07
131	587524.8	4154110	7.39E-07	1.62E-06	0.00E+00	2.36E-06	1.50E-06	1.64E-06	0.00E+00	3.14E-06	1.20E-07	3.69E-07	0.00E+00	4.88E-07	6.75E-08	2.31E-07	0.00E+00	2.98E-07
132	587560.4	4154075	6.22E-07	1.36E-06	0.00E+00	1.99E-06	1.26E-06	1.38E-06	0.00E+00	2.64E-06	1.01E-07	3.10E-07	0.00E+00	4.11E-07	5.68E-08	1.94E-07	0.00E+00	2.51E-07
133	587552.2	4154080	6.39E-07	1.40E-06	0.00E+00	2.04E-06	1.30E-06	1.42E-06	0.00E+00	2.72E-06	1.04E-07	3.19E-07	0.00E+00	4.22E-07	5.84E-08	2.00E-07	0.00E+00	2.58E-07
134	587544	4154086	6.56E-07	1.44E-06	0.00E+00	2.09E-06	1.33E-06	1.45E-06	0.00E+00	2.79E-06	1.06E-07	3.27E-07	0.00E+00	4.33E-07	5.99E-08	2.05E-07	0.00E+00	2.65E-07
135	587535.8	4154091	6.71E-07	1.47E-06	0.00E+00	2.14E-06	1.36E-06	1.49E-06	0.00E+00	2.85E-06	1.09E-07	3.34E-07	0.00E+00	4.43E-07	6.12E-08	2.09E-07	0.00E+00	2.71E-07
136	587527.6	4154096	6.84E-07	1.50E-06	0.00E+00	2.18E-06	1.39E-06	1.52E-06	0.00E+00	2.91E-06	1.11E-07	3.41E-07	0.00E+00	4.52E-07	6.25E-08	2.14E-07	0.00E+00	2.76E-07
137	587519.4	4154101	6.96E-07	1.53E-06	0.00E+00	2.22E-06	1.41E-06	1.54E-06	0.00E+00	2.96E-06	1.13E-07	3.47E-07	0.00E+00	4.60E-07	6.35E-08	2.17E-07	0.00E+00	2.81E-07
138	587555	4154066	5.87E-07	1.29E-06	0.00E+00	1.88E-06	1.19E-06	1.30E-06	0.00E+00	2.50E-06	9.51E-08	2.93E-07	0.00E+00	3.88E-07	5.36E-08	1.83E-07	0.00E+00	2.37E-07
139	587546.8	4154072	6.03E-07	1.32E-06	0.00E+00	1.93E-06	1.23E-06	1.34E-06	0.00E+00	2.57E-06	9.77E-08	3.01E-07	0.00E+00	3.99E-07	5.51E-08	1.88E-07	0.00E+00	2.43E-07
140	587538.6	4154077	6.19E-07	1.36E-06	0.00E+00	1.97E-06	1.26E-06	1.37E-06	0.00E+00	2.63E-06	1.00E-07	3.08E-07	0.00E+00	4.09E-07	5.65E-08	1.93E-07	0.00E+00	2.50E-07
141	587530.4	4154082	6.33E-07	1.39E-06	0.00E+00	2.02E-06	1.29E-06	1.40E-06	0.00E+00	2.69E-06	1.02E-07	3.15E-07	0.00E+00	4.18E-07	5.78E-08	1.98E-07	0.00E+00	2.55E-07
142	587522.2	4154088	6.45E-07	1.41E-06	0.00E+00	2.06E-06	1.31E-06	1.43E-06	0.00E+00	2.74E-06	1.05E-07	3.22E-07	0.00E+00	4.26E-07	5.89E-08	2.01E-07	0.00E+00	2.60E-07
143	587514	4154093	6.57E-07	1.44E-06	0.00E+00	2.10E-06	1.33E-06	1.46E-06	0.00E+00	2.79E-06	1.06E-07	3.27E-07	0.00E+00	4.34E-07	5.99E-08	2.05E-07	0.00E+00	2.65E-07
144	587549.6	4154058	5.56E-07	1.22E-06	0.00E+00	1.77E-06	1.13E-06	1.23E-06	0.00E+00	2.36E-06	9.00E-08	2.77E-07	0.00E+00	3.67E-07	5.07E-08	1.74E-07	0.00E+00	2.24E-07
145	587541.4	4154063	5.71E-07	1.25E-06	0.00E+00	1.82E-06	1.16E-06	1.27E-06	0.00E+00	2.43E-06	9.24E-08	2.84E-07	0.00E+00	3.77E-07	5.21E-08	1.78E-07	0.00E+00	2.30E-07
146	587533.2	4154069	5.85E-07	1.28E-06	0.00E+00	1.87E-06	1.19E-06	1.30E-06	0.00E+00	2.49E-06	9.47E-08	2.92E-07	0.00E+00	3.86E-07	5.34E-08	1.83E-07	0.00E+00	2.36E-07
147	587524.9	4154074	5.98E-07	1.31E-06	0.00E+00	1.91E-06	1.22E-06	1.33E-06	0.00E+00	2.54E-06	9.68E-08	2.98E-07	0.00E+00	3.95E-07	5.46E-08	1.87E-07	0.00E+00	2.41E-07
148	587516.7	4154079	6.10E-07	1.34E-06	0.00E+00	1.95E-06	1.24E-06	1.35E-06	0.00E+00	2.59E-06	9.88E-08	3.04E-07	0.00E+00	4.03E-07	5.57E-08	1.90E-07	0.00E+00	2.46E-07
149	587508.5	4154085	6.20E-07	1.36E-06	0.00E+00	1.98E-06	1.26E-06	1.38E-06	0.00E+00	2.64E-06	1.00E-07	3.09E-07	0.00E+00	4.10E-07	5.66E-08	1.94E-07	0.00E+00	2.50E-07
150	587544.2	4154050	5.27E-07	1.15E-06	0.00E+00	1.68E-06	1.07E-06	1.17E-06	0.00E+00	2.24E-06	8.53E-08	2.63E-07	0.00E+00	3.48E-07	4.81E-08	1.64E-07	0.00E+00	2.13E-07
151	587535.9	4154055	5.41E-07	1.18E-06	0.00E+00	1.73E-06	1.10E-06	1.20E-06	0.00E+00	2.30E-06	8.76E-08	2.70E-07	0.00E+00	3.57E-07	4.94E-08	1.69E-07	0.00E+00	2.18E-07
152	587527.7	4154060	5.54E-07	1.21E-06	0.00E+00	1.77E-06	1.13E-06	1.23E-06	0.00E+00	2.35E-06	8.97E-08	2.76E-07	0.00E+00	3.66E-07	5.06E-08	1.73E-07	0.00E+00	2.23E-07
153	587519.5	4154066	5.66E-07	1.24E-06	0.00E+00	1.81E-06	1.15E-06	1.26E-06	0.00E+00	2.41E-06	9.17E-08	2.82E-07	0.00E+00	3.74E-07	5.17E-08	1.77E-07	0.00E+00	2.28E-07
154	587511.3	4154071	5.77E-07	1.27E-06	0.00E+00	1.84E-06	1.17E-06	1.28E-06	0.00E+00	2.45E-06	9.35E-08	2.88E-07	0.00E+00	3.81E-07	5.27E-08	1.80E-07	0.00E+00	2.33E-07
155	587503.1	4154076	5.87E-07	1.29E-06	0.00E+00	1.87E-06	1.19E-06	1.30E-06	0.00E+00	2.50E-06	9.51E-08	2.93E-07	0.00E+00	3.88E-07	5.36E-08	1.83E-07	0.00E+00	2.37E-07
156	587538.7	4154041	5.00E-07	1.10E-06	0.00E+00	1.60E-06	1.02E-06	1.11E-06	0.00E+00	2.13E-06	8.10E-08	2.49E-07	0.00E+00	3.30E-07	4.57E-08	1.56E-07	0.00E+00	2.02E-07
157	587530.5	4154047	5.13E-07	1.12E-06	0.00E+00	1.64E-06	1.04E-06	1.14E-06	0.00E+00	2.18E-06	8.31E-08	2.56E-07	0.00E+00	3.39E-07	4.68E-08	1.60E-07	0.00E+00	2.07E-07
158	587522.3	4154052	5.25E-07	1.15E-06	0.00E+00	1.68E-06	1.07E-06	1.17E-06	0.00E+00	2.23E-06	8.51E-08	2.62E-07	0.00E+00	3.47E-07	4.80E-08	1.64E-07	0.00E+00	2.12E-07
159	587514.1	4154057	5.37E-07	1.18E-06	0.00E+00	1.71E-06	1.09E-06	1.19E-06	0.00E+00	2.28E-06	8.69E-08	2.68E-07	0.00E+00	3.55E-07	4.90E-08	1.68E-07	0.00E+00	2.17E-07
160	587505.9	4154063	5.47E-07	1.20E-06	0.00E+00	1.75E-06	1.11E-06	1.21E-06	0.00E+00	2.33E-06	8.86E-08	2.73E-07	0.00E+00	3.61E-07	5.00E-08	1.71E-07	0.00E+00	2.21E-07
161	587497.7	4154068	5.56E-07	1.22E-06	0.00E+00	1.78E-06	1.13E-06	1.23E-06	0.00E+00	2.37E-06	9.01E-08	2.77E-07	0.00E+00	3.68E-07	5.08E-08	1.74E-07	0.00E+00	2.25E-07
162	587533.3	4154033	4.76E-07	1.04E-06	0.00E+00	1.52E-06	9.67E-07	1.06E-06	0.00E+00	2.02E-06	7.70E-08	2.37E-07	0.00E+00	3.14E-07	4.34E-08	1.49E-07	0.00E+00	1.92E-07
163	587525.1	4154038	4.88E-07	1.07E-06	0.00E+00	1.56E-06	9.91E-07	1.08E-06	0.00E+00	2.07E-06	7.90E-08	2.43E-07	0.00E+00	3.22E-07	4.45E-08	1.52E-07	0.00E+00	1.97E-07
164	587516.9	4154044	4.99E-07	1.09E-06	0.00E+00	1.59E-06	1.01E-06	1.11E-06	0.00E+00	2.12E-06	8.08E-08	2.49E-07	0.00E+00	3.30E-07	4.56E-08	1.56E-07	0.00E+00	2.01E-07
165	587508.7	4154049	5.10E-07	1.12E-06	0.00E+00	1.63E-06	1.04E-06	1.13E-06	0.00E+00	2.17E-06	8.25E-08	2.54E-07	0.00E+00	3.37E-07	4.65E-08	1.59E-07	0.00E+00	2.06E-07
166	587500.4	4154054	5.19E-07	1.14E-06	0.00E+00	1.66E-06	1.06E-06	1.15E-06	0.00E+00	2.21E-06	8.41E-08	2.59E-07	0.00E+00	3.43E-07	4.74E-08	1.62E-07	0.00E+00	2.10E-07
167	587492.2	4154059	5.28E-07	1.16E-06	0.00E+00	1.69E-06	1.07E-06	1.17E-06	0.00E+00	2.24E-06	8.55E-08	2.63E-07	0.00E+00	3.49E-07	4.82E-08	1.65E-07	0.00E+00	2.13E-07
168	587527.9	4154025	4.53E-07	9.93E-07	0.00E+00	1.45E-06	9.21E-07	1.00E-06	0.00E+00	1.93E-06	7.34E-08	2.26E-07	0.00E+00	2.99E-07	4.14E-08	1.41E-07	0.00E+00	1.83E-07
169	587519.6	4154030	4.64E-07	1.02E-06	0.00E+00	1.48E-06	9.43E-07	1.03E-06	0.00E+00	1.97E-06	7.52E-08	2.31E-07	0.00E+00	3.07E-07	4.24E-08	1.45E-07	0.00E+00	1.87E-07
170	587511.4	4154035	4.75E-07	1.04E-06	0.00E+00	1.52E-06	9.65E-07	1.05E-06	0.00E+00	2.02E-06	7.69E-08	2.37E-07	0.00E+00	3.14E-07	4.34E-08	1.48E-07	0.00E+00	1.92E-07
171	587503.2	4154040	4.85E-07	1.06E-06	0.00E+00	1.55E-06	9.85E-07	1.08E-06	0.00E+00	2.06E-06	7.85E-08	2.42E-07	0.00E+00	3.20E-07	4.42E-08	1.51E-07	0.00E+00	1.96E-07
172	587495	4154046	4.94E-07	1.08E-06	0.00E+00	1.58E-06	1.00E-06	1.10E-06	0.00E+00	2.10E-06	8.00E-08	2.46E-07	0.00E+00	3.26E-07	4.51E-08	1.54E-07	0.00E+00	1.99E-07
173	587486.8	4154051	5.02E-07	1.10E-06	0.00E+00	1.60E-06	1.02E-06	1.11E-06	0.00E+00	2.13E-06	8.13E-08	2.50E-07	0.00E+00	3.32E-07	4.58E-08	1.57E-07	0.00E+00	2.03E-07
174	587522.4	4154016	4.32E-07	9.47E-07	0.00E+00	1.38E-06	8.78E-07	9.58E-07	0.00E+00	1.84E-06	7.00E-08	2.15E-07	0.00E+00	2.85E-07	3.94E-08	1.35E-07	0.00E+00	1.74E-07
175	587514.2	4154021	4.42E-07	9.70E-07	0.00E+00	1.41E-06	8.99E-07	9.82E-07	0.00E+00	1.88E-06	7.17E-08	2.21E-07	0.00E+00	2.92E-07	4.04E-08	1.38E-07	0.00E+00	1.79E-07
176	587506	4154027	4.52E-07	9.91E-07	0.00E+00	1.44E-06	9.19E-07	1.00E-06	0.00E+00	1.92E-06	7.32E-08	2.25E-07	0.00E+00	2.99E-07	4.13E-08	1.41E-07	0.00E+00	1.82E-07
177	587497.8	4154032	4.61E-07	1.01E-06	0.00E+00	1.47E-06	9.38E-07	1.02E-06	0.00E+00	1.96E-06	7.47E-08	2.30E-07	0.00E+00	3.05E-07	4.21E-08	1.44E-07	0.00E+00	1.86E-07
178	587489.6	4154037	4.70E-07	1.03E-06	0.00E+00	1.50E-06	9.55E-07	1.04E-06	0.00E+00	2.00E-06	7.61E-08	2.34E-07	0.00E+00	3.10E-07	4.29E-08	1.47E-07	0.00E+00	1.90E-07
179	587481.4	4154043	4.78E-07	1.05E-06	0.00E+00	1.52E-06	9.71E-07	1.06E-06	0.00E+00	2.03E-06	7.74E-08	2.38E-07	0.00E+00	3.16E-07	4.36E-08	1.49E-07	0.00E+00	1.93E-07
180	587602.9	4154297	5.13E-06	1.12E-05	0.00E+00	1.64E-05	1.04E-05	1.14E-05	0.00E+00	2.18E-05	8.30E-07	2.56E-06	0.00E+00	3.39E-06	4.68E-07	1.60E-06	0.00E+00	2.07E-06
181	587588.5	4154306	4.40E-06	9.64E-06	0.00E+00	1.40E-05	8.94E-06	9.76E-06	0.00E+00	1.87E-05	7.12E-07	2.19E-06	0.00E+00	2.91E-06	4.02E-07	1.37E-06	0.00E+00	1.78E-06
182	587597.5	4154289	4.27E-06	9.36E-06	0.00E+00	1.36E-05	8.68E-06	9.47E-06	0.00E+00	1.82E-05	6.92E-07	2.13E-06	0.00E+00	2.82E-06	3.90E-07	1.33E-06	0.00E+00	1.72E-06
183	587583.2	4154298	3.74E-06	8.20E-06	0.00E+00	1.19E-05	7.61E-06	8.30E-06	0.00E+00	1.59E-05	6.06E-07	1.87E-06	0.00E+00	2.47E-06	3.42E-07	1.17E-06	0.00E+00	1.51E-06
184	587592.2	4154280	3.64E-06	7.99E-06	0.00E+00	1.16E-05	7.41E-06	8.08E-06	0.00E+00	1.55E-05	5.90E-07	1.82E-06	0.00E+00	2.41E-06	3.33E-07	1.14E-06	0.00E+00	1.47E-06
185	587577.8	4154290	3.25E-06	7.12E-06	0.00E+00	1.04E-05	6.60E-06	7.21E-06	0.00E+00	1.38E-05	5.26E-07	1.62E-06	0.00E+00	2.15E-06	2.97E-07	1.01E-06	0.00E+00	1.31E-06
186	587586.8	4154272	3.17E-06	6.94E-06	0.00E+00	1.01E-05	6.44E-06	7.02E-06	0.00E+00	1.35E-05	5.13E-07	1.58E-06	0.00E+00	2.09E-06	2.89E-07	9.88E-07	0.00E+00	1.28E-06
187	587572.5	4154281	2.86E-06	6.27E-06	0.00E+00	9.13E-06	5.82E-06	6.35E-06	0.00E+00	1.22E-05	4.63E-07	1.43E-06	0.00E+00	1.89E-06	2.61E-07	8.93E-07	0.00E+00	1.15E-06
188	587581.5	4154264	2.79E-06	6.11E-06	0.00E+00	8.90E-06	5.67E-06	6.18E-06	0.00E+00	1.19E-05	4.51E-07	1.39E-06	0.00E+00	1.84E-06	2.55E-07	8.70E-07	0.00E+00	1.12E-06
189	587567.1	4154273	2.55E-06	5.58E-06	0.00E+00	8.12E-06	5.17E-06	5.65E-06	0.00E+00	1.08E-05	4.12E-07	1.27E-06	0.00E+00	1.68E-06	2.32E-07	7.95E-07	0.00E+00	1.03E-06
190	587576.1	4154255	2.48E-06	5.44E-06	0.00E+00	7.92E-06	5.04E-06	5.50E-06	0.00E+00	1.05E-05	4.02E-07	1.24E-06	0.00E+00	1.64E-06	2.26E-07	7.74E-07	0.00E+00	1.00E-06
191	587561.7	4154264	2.28E-06	5.01E-06	0.00E+00	7.29E-06	4.64E-06	5.07E-06	0.00E+00	9.71E-06	3.70E-07	1.14E-06	0.00E+00	1.51E-06	2.09E-07	7.13E-07	0.00E+00	9.22E-07
192	587570.7	4154247	2.22E-06	4.88E-06	0.00E+00	7.10E-06	4.52E-06	4.94E-06	0.00E+00	9.46E-06	3.60E-07	1.11E-06	0.00E+00	1.47E-06	2.03E-07	6.95E-07	0.00E+00	8.98E-07
193	587556.4	4154256	2.07E-06	4.53E-06	0.00E+00	6.60E-06	4.20E-06	4.59E-06	0.00E+00	8.79E-06	3.35E-07	1.03E-06	0.00E+00	1.37E-06	1.89E-07	6.46E-07	0.00E+00	8.35E-07
194	587565.4	4154238	2.01E-06	4.41E-06	0.00E+00	6.42E-06	4.09E-06	4.46E-06	0.00E+00	8.55E-06	3.26E-07	1.00E-06	0.00E+00	1.33E-06	1.84E-07	6.28E-07	0.00E+00	8.11E-07
195	587551	4154247	1.89E-06	4.13E-06	0.00E+00	6.02E-06	3.83E-06	4.18E-06	0.00E+00	8.02E-06	3.05E-07	9.40E-07	0.00E+00	1.25E-06	1.72E-07	5.89E-07	0.00E+00	7.61E-07
196	587560	4154230	1.83E-06	4.00E-06	0.00E+00	5.83E-06	3.71E-06	4.05E-06	0.00E+00	7.77E-06	2.96E-07	9.11E-07	0.00E+00	1.21E-06	1.67E-07	5.70E-07	0.00E+00	7.37E-07
197	587545.7	4154239	1.73E-06	3.79E-06	0.00E+00	5.52E-06	3.51E-06	3.83E-06	0.00E+00	7.35E-06	2.80E-07	8.62E-07	0.00E+00	1.14E-06	1.58E-07	5.40E-07	0.00E+00	6.97E-07
198	587554.7	4154221	1.67E-06	3.66E-06	0.00E+00	5.33E-06	3.39E-06	3.70E-06	0.00E+00	7.09E-06	2.70E-07	8.32E-07	0.00E+00	1.10E-06	1.52E-07	5.21E-07	0.00E+00	6.73E-07
199	587540.3	4154231	1.59E-06	3.48E-06	0.00E+00	5.07E-06	3.23E-06	3.53E-06	0.00E+00	6.76E-06	2.57E-07	7.93E-07	0.00E+00	1.05E-06	1.45E-07	4.96E-07	0.00E+00	6.41E-07
200	587549.3	4154213	1.53E-06	3.36E-06	0.00E+00	4.89E-06	3.11E-06	3.40E-06	0.00E+00	6.51E-06	2.48E-07	7.63E-07	0.00E+00	1.01E-06	1.40E-07	4.78E-07	0.00E+00	6.18E-07
201	587534.9	4154222	1.47E-06	3.22E-06	0.00E+00	4.68E-06	2.98E-06	3.25E-06	0.00E+00	6.24E-06	2.38E-07	7.32E-07	0.00E+00	9.69E-07	1.34E-07	4.58E-07	0.00E+00	5.92E-07
202	587543.9	4154205	1.41E-06	3.09E-06	0.00E+00	4.50E-06	2.87E-06	3.13E-06	0.00E+00	5.99E-06	2.28E-07	7.03E-07	0.00E+00	9.31E-07	1.29E-07	4.40E-07	0.00E+00	5.69E-07
203	587529.6	4154214	1.36E-06	2.98E-06	0.00E+00	4.34E-06	2.76E-06	3.01E-06	0.00E+00	5.78E-06	2.20E-07	6.77E-07	0.00E+00	8.97E-07	1.24E-07	4.24E-07	0.00E+00	5.48E-07
204	587538.6	4154196	1.30E-06	2.86E-06	0.00E+00	4.16E-06	2.65E-06	2.89E-06	0.00E+00	5.54E-06	2.11E-07	6.50E-07	0.00E+00	8.60E-07	1.19E-07	4.07E-07	0.00E+00	5.26E-07
205	587524.2	4154205	1.26E-06	2.77E-06	0.00E+00	4.03E-06	2.56E-06	2.80E-06	0.00E+00	5.36E-06	2.04E-07	6.29E-07	0.00E+00	8.33E-07	1.15E-07	3.94E-07	0.00E+00	5.09E-07
206	587533.2	4154188	1.21E-06	2.65E-06	0.00E+00	3.85E-06	2.45E-06	2.68E-06	0.00E+00	5.13E-06	1.96E-07	6.02E-07	0.00E+00	7.98E-07	1.10E-07	3.77E-07	0.00E+00	4.87E-07
207	587518.9	4154197	1.17E-06	2.57E-06	0.00E+00	3.75E-06	2.39E-06	2.61E-06	0.00E+00	4.99E-06	1.90E-07	5.86E-07	0.00E+00	7.76E-07	1.07E-07	3.67E-07	0.00E+00	4.74E-07
208	587513.5	4154188	1.10E-06	2.40E-06	0.00E+00	3.50E-06	2.23E-06	2.43E-06	0.00E+00	4.66E-06	1.78E-07	5.47E-07	0.00E+00	7.24E-07	1.00E-07	3.42E-07	0.00E+00	4.43E-07
209	587511.8	4154154	9.15E-07	2.01E-06	0.00E+00	2.92E-06	1.86E-06	2.03E-06	0.00E+00	3.89E-06	1.48E-07	4.56E-07	0.00E+00	6.05E-07	8.36E-08	2.86E-07	0.00E+00	3.69E-07
210	587506.4	4154145	8.58E-07	1.88E-06	0.00E+00	2.74E-06	1.74E-06	1.90E-06	0.00E+00	3.65E-06	1.39E-07	4.28E-07	0.00E+00	5.67E-07	7.84E-08	2.68E-07	0.00E+00	3.46E-07
211	587492.1	4154155	8.48E-07	1.86E-06	0.00E+00	2.71E-06	1.72E-06	1.88E-06	0.00E+00	3.61E-06	1.37E-07	4.23E-07	0.00E+00	5.60E-07	7.75E-08	2.65E-07	0.00E+00	3.42E-07
212	587501.1	4154137	8.07E-07	1.77E-06	0.00E+00	2.58E-06	1.64E-06	1.79E-06	0.00E+00	3.43E-06	1.31E-07	4.02E-07	0.00E+00	5.33E-07	7.37E-08	2.52E-07	0.00E+00	3.26E-07
213	587486.7	4154146	7.99E-07	1.75E-06	0.00E+00	2.55E-06	1.62E-06	1.77E-06	0.00E+00	3.40E-06	1.29E-07	3.99E-07	0.00E+00	5.28E-07	7.30E-08	2.50E-07	0.00E+00	3.23E-07
214	587495.7	4154129	7.60E-07	1.67E-06	0.00E+00	2.43E-06	1.55E-06	1.69E-06	0.00E+00	3.23E-06	1.23E-07	3.79E-07	0.00E+00	5.02E-07	6.94E-08	2.37E-07	0.00E+00	3.07E-07
215	587481.3	4154138	7.55E-07	1.66E-06	0.00E+00	2.41E-06	1.54E-06	1.68E-06	0.00E+00	3.21E-06	1.22E-07	3.77E-07	0.00E+00	4.99E-07	6.90E-08	2.36E-07	0.00E+00	3.05E-07
216	587490.3	4154120	7.18E-07	1.57E-06	0.00E+00	2.29E-06	1.46E-06	1.59E-06	0.00E+00	3.05E-06	1.16E-07	3.58E-07	0.00E+00	4.74E-07	6.55E-08	2.24E-07	0.00E+00	2.90E-07
217	587476	4154129	7.15E-07	1.57E-06	0.00E+00	2.28E-06	1.45E-06	1.59E-06	0.00E+00	3.04E-06	1.16E-07	3.56E-07	0.00E+00	4.72E-07	6.52E-08	2.23E-07	0.00E+00	2.88E-07

218	587485	4154112	6.79E-07	1.49E-06	0.00E+00	2.17E-06	1.38E-06	1.51E-06	0.00E+00	2.88E-06	1.10E-07	3.38E-07	0.00E+00	4.48E-07	6.20E-08	2.12E-07	0.00E+00	2.74E-07
219	587470.6	4154121	6.76E-07	1.48E-06	0.00E+00	2.16E-06	1.37E-06	1.50E-06	0.00E+00	2.88E-06	1.10E-07	3.37E-07	0.00E+00	4.47E-07	6.18E-08	2.11E-07	0.00E+00	2.73E-07
220	587479.6	4154103	6.42E-07	1.41E-06	0.00E+00	2.05E-06	1.31E-06	1.42E-06	0.00E+00	2.73E-06	1.04E-07	3.20E-07	0.00E+00	4.24E-07	5.86E-08	2.00E-07	0.00E+00	2.59E-07
221	587465.3	4154112	6.41E-07	1.41E-06	0.00E+00	2.05E-06	1.30E-06	1.42E-06	0.00E+00	2.73E-06	1.04E-07	3.20E-07	0.00E+00	4.23E-07	5.85E-08	2.00E-07	0.00E+00	2.59E-07
222	587474.3	4154095	6.09E-07	1.33E-06	0.00E+00	1.94E-06	1.24E-06	1.35E-06	0.00E+00	2.59E-06	9.86E-08	3.03E-07	0.00E+00	4.02E-07	5.56E-08	1.90E-07	0.00E+00	2.46E-07
223	587459.9	4154104	6.09E-07	1.33E-06	0.00E+00	1.94E-06	1.24E-06	1.35E-06	0.00E+00	2.59E-06	9.86E-08	3.03E-07	0.00E+00	4.02E-07	5.56E-08	1.90E-07	0.00E+00	2.46E-07
224	587468.9	4154086	5.78E-07	1.27E-06	0.00E+00	1.84E-06	1.17E-06	1.28E-06	0.00E+00	2.46E-06	9.35E-08	2.88E-07	0.00E+00	3.82E-07	5.27E-08	1.80E-07	0.00E+00	2.33E-07
225	587454.5	4154095	5.79E-07	1.27E-06	0.00E+00	1.85E-06	1.18E-06	1.28E-06	0.00E+00	2.46E-06	9.37E-08	2.89E-07	0.00E+00	3.82E-07	5.28E-08	1.81E-07	0.00E+00	2.34E-07
226	587463.6	4154078	5.48E-07	1.20E-06	0.00E+00	1.75E-06	1.11E-06	1.22E-06	0.00E+00	2.33E-06	8.88E-08	2.73E-07	0.00E+00	3.62E-07	5.01E-08	1.71E-07	0.00E+00	2.21E-07
227	587449.2	4154087	5.51E-07	1.21E-06	0.00E+00	1.76E-06	1.12E-06	1.22E-06	0.00E+00	2.34E-06	8.93E-08	2.75E-07	0.00E+00	3.64E-07	5.03E-08	1.72E-07	0.00E+00	2.22E-07
228	587458.2	4154069	5.21E-07	1.14E-06	0.00E+00	1.66E-06	1.06E-06	1.16E-06	0.00E+00	2.22E-06	8.44E-08	2.60E-07	0.00E+00	3.44E-07	4.76E-08	1.63E-07	0.00E+00	2.10E-07
229	587443.8	4154079	5.25E-07	1.15E-06	0.00E+00	1.68E-06	1.07E-06	1.16E-06	0.00E+00	2.23E-06	8.50E-08	2.62E-07	0.00E+00	3.47E-07	4.79E-08	1.64E-07	0.00E+00	2.12E-07
230	587452.8	4154061	4.96E-07	1.09E-06	0.00E+00	1.58E-06	1.01E-06	1.10E-06	0.00E+00	2.11E-06	8.04E-08	2.47E-07	0.00E+00	3.28E-07	4.53E-08	1.55E-07	0.00E+00	2.00E-07
231	587438.5	4154070	5.00E-07	1.10E-06	0.00E+00	1.60E-06	1.02E-06	1.11E-06	0.00E+00	2.13E-06	8.10E-08	2.50E-07	0.00E+00	3.31E-07	4.57E-08	1.56E-07	0.00E+00	2.02E-07
232	587562.7	4154322	2.84E-06	6.22E-06	0.00E+00	9.06E-06	5.77E-06	6.30E-06	0.00E+00	1.21E-05	4.60E-07	1.41E-06	0.00E+00	1.87E-06	2.59E-07	8.86E-07	0.00E+00	1.15E-06
233	587550.4	4154336	2.21E-06	4.85E-06	0.00E+00	7.07E-06	4.50E-06	4.91E-06	0.00E+00	9.41E-06	3.59E-07	1.10E-06	0.00E+00	1.46E-06	2.02E-07	6.91E-07	0.00E+00	8.93E-07
234	587554	4154318	2.44E-06	5.35E-06	0.00E+00	7.79E-06	4.96E-06	5.41E-06	0.00E+00	1.04E-05	3.95E-07	1.22E-06	0.00E+00	1.61E-06	2.23E-07	7.62E-07	0.00E+00	9.85E-07
235	587559.5	4154310	2.67E-06	5.85E-06	0.00E+00	8.52E-06	5.43E-06	5.93E-06	0.00E+00	1.14E-05	4.33E-07	1.33E-06	0.00E+00	1.76E-06	2.44E-07	8.34E-07	0.00E+00	1.08E-06
236	587542.4	4154343	1.90E-06	4.16E-06	0.00E+00	6.05E-06	3.86E-06	4.21E-06	0.00E+00	8.06E-06	3.07E-07	9.46E-07	0.00E+00	1.25E-06	1.73E-07	5.92E-07	0.00E+00	7.65E-07
237	587540.5	4154334	1.91E-06	4.18E-06	0.00E+00	6.08E-06	3.87E-06	4.23E-06	0.00E+00	8.10E-06	3.09E-07	9.50E-07	0.00E+00	1.26E-06	1.74E-07	5.95E-07	0.00E+00	7.69E-07
238	587544	4154317	2.09E-06	4.57E-06	0.00E+00	6.66E-06	4.24E-06	4.63E-06	0.00E+00	8.86E-06	3.38E-07	1.04E-06	0.00E+00	1.38E-06	1.90E-07	6.51E-07	0.00E+00	8.41E-07
239	587549.3	4154309	2.27E-06	4.97E-06	0.00E+00	7.24E-06	4.61E-06	5.03E-06	0.00E+00	9.65E-06	3.67E-07	1.13E-06	0.00E+00	1.50E-06	2.07E-07	7.08E-07	0.00E+00	9.16E-07
240	587554.6	4154301	2.44E-06	5.34E-06	0.00E+00	7.78E-06	4.95E-06	5.41E-06	0.00E+00	1.04E-05	3.95E-07	1.22E-06	0.00E+00	1.61E-06	2.23E-07	7.61E-07	0.00E+00	9.84E-07
241	587534.3	4154349	1.64E-06	3.60E-06	0.00E+00	5.24E-06	3.34E-06	3.64E-06	0.00E+00	6.98E-06	2.66E-07	8.18E-07	0.00E+00	1.08E-06	1.50E-07	5.12E-07	0.00E+00	6.62E-07
242	587530.7	4154331	1.66E-06	3.65E-06	0.00E+00	5.31E-06	3.38E-06	3.69E-06	0.00E+00	7.07E-06	2.69E-07	8.29E-07	0.00E+00	1.10E-06	1.52E-07	5.19E-07	0.00E+00	6.71E-07
243	587534	4154315	1.81E-06	3.97E-06	0.00E+00	5.78E-06	3.68E-06	4.02E-06	0.00E+00	7.69E-06	2.93E-07	9.02E-07	0.00E+00	1.20E-06	1.65E-07	5.65E-07	0.00E+00	7.30E-07
244	587539.2	4154307	1.96E-06	4.30E-06	0.00E+00	6.26E-06	3.98E-06	4.35E-06	0.00E+00	8.33E-06	3.17E-07	9.77E-07	0.00E+00	1.29E-06	1.79E-07	6.12E-07	0.00E+00	7.91E-07
245	587544.4	4154300	2.10E-06	4.61E-06	0.00E+00	6.71E-06	4.27E-06	4.66E-06	0.00E+00	8.94E-06	3.41E-07	1.05E-06	0.00E+00	1.39E-06	1.92E-07	6.56E-07	0.00E+00	8.48E-07
246	587549.6	4154292	2.23E-06	4.88E-06	0.00E+00	7.11E-06	4.53E-06	4.94E-06	0.00E+00	9.47E-06	3.61E-07	1.11E-06	0.00E+00	1.47E-06	2.03E-07	6.95E-07	0.00E+00	8.98E-07
247	587526.1	4154355	1.43E-06	3.14E-06	0.00E+00	4.57E-06	2.91E-06	3.18E-06	0.00E+00	6.09E-06	2.32E-07	7.14E-07	0.00E+00	9.46E-07	1.31E-07	4.47E-07	0.00E+00	5.78E-07
248	587522.6	4154338	1.46E-06	3.21E-06	0.00E+00	4.67E-06	2.97E-06	3.24E-06	0.00E+00	6.22E-06	2.37E-07	7.29E-07	0.00E+00	9.66E-07	1.34E-07	4.57E-07	0.00E+00	5.90E-07
249	587524.1	4154313	1.59E-06	3.49E-06	0.00E+00	5.08E-06	3.23E-06	3.53E-06	0.00E+00	6.76E-06	2.58E-07	7.93E-07	0.00E+00	1.05E-06	1.45E-07	4.97E-07	0.00E+00	6.42E-07
250	587529.2	4154306	1.72E-06	3.76E-06	0.00E+00	5.47E-06	3.49E-06	3.81E-06	0.00E+00	7.29E-06	2.78E-07	8.55E-07	0.00E+00	1.13E-06	1.57E-07	5.35E-07	0.00E+00	6.92E-07
251	587539.3	4154291	1.95E-06	4.26E-06	0.00E+00	6.21E-06	3.95E-06	4.32E-06	0.00E+00	8.27E-06	3.15E-07	9.70E-07	0.00E+00	1.28E-06	1.78E-07	6.07E-07	0.00E+00	7.85E-07
252	587544.4	4154284	2.04E-06	4.46E-06	0.00E+00	6.50E-06	4.14E-06	4.52E-06	0.00E+00	8.66E-06	3.30E-07	1.02E-06	0.00E+00	1.35E-06	1.86E-07	6.36E-07	0.00E+00	8.22E-07
253	587518	4154361	1.26E-06	2.76E-06	0.00E+00	4.03E-06	2.56E-06	2.80E-06	0.00E+00	5.36E-06	2.04E-07	6.29E-07	0.00E+00	8.33E-07	1.15E-07	3.94E-07	0.00E+00	5.09E-07
254	587514.5	4154344	1.29E-06	2.84E-06	0.00E+00	4.13E-06	2.63E-06	2.87E-06	0.00E+00	5.50E-06	2.10E-07	6.45E-07	0.00E+00	8.54E-07	1.18E-07	4.04E-07	0.00E+00	5.22E-07
255	587511	4154327	1.31E-06	2.87E-06	0.00E+00	4.18E-06	2.66E-06	2.90E-06	0.00E+00	5.56E-06	2.12E-07	6.53E-07	0.00E+00	8.65E-07	1.20E-07	4.09E-07	0.00E+00	5.28E-07
256	587514.3	4154311	1.41E-06	3.10E-06	0.00E+00	4.51E-06	2.87E-06	3.14E-06	0.00E+00	6.01E-06	2.29E-07	7.05E-07	0.00E+00	9.33E-07	1.29E-07	4.41E-07	0.00E+00	5.70E-07
257	587524.2	4154297	1.62E-06	3.55E-06	0.00E+00	5.17E-06	3.29E-06	3.60E-06	0.00E+00	6.89E-06	2.62E-07	8.08E-07	0.00E+00	1.07E-06	1.48E-07	5.06E-07	0.00E+00	6.54E-07
258	587534.2	4154282	1.80E-06	3.95E-06	0.00E+00	5.75E-06	3.66E-06	4.00E-06	0.00E+00	7.66E-06	2.92E-07	8.99E-07	0.00E+00	1.19E-06	1.65E-07	5.63E-07	0.00E+00	7.27E-07
259	587509.1	4154364	1.13E-06	2.47E-06	0.00E+00	3.59E-06	2.29E-06	2.50E-06	0.00E+00	4.78E-06	1.82E-07	5.61E-07	0.00E+00	7.43E-07	1.03E-07	3.51E-07	0.00E+00	4.54E-07
260	587507.2	4154355	1.14E-06	2.51E-06	0.00E+00	3.65E-06	2.32E-06	2.54E-06	0.00E+00	4.86E-06	1.85E-07	5.70E-07	0.00E+00	7.55E-07	1.04E-07	3.57E-07	0.00E+00	4.61E-07
261	587505.3	4154345	1.16E-06	2.54E-06	0.00E+00	3.70E-06	2.35E-06	2.57E-06	0.00E+00	4.92E-06	1.88E-07	5.77E-07	0.00E+00	7.65E-07	1.06E-07	3.62E-07	0.00E+00	4.67E-07
262	587503.3	4154335	1.17E-06	2.56E-06	0.00E+00	3.73E-06	2.38E-06	2.59E-06	0.00E+00	4.97E-06	1.89E-07	5.83E-07	0.00E+00	7.72E-07	1.07E-07	3.65E-07	0.00E+00	4.72E-07
263	587501.4	4154326	1.18E-06	2.58E-06	0.00E+00	3.76E-06	2.39E-06	2.61E-06	0.00E+00	5.00E-06	1.91E-07	5.87E-07	0.00E+00	7.78E-07	1.07E-07	3.68E-07	0.00E+00	4.75E-07
264	587516.1	4154292	1.48E-06	3.23E-06	0.00E+00	4.71E-06	3.00E-06	3.27E-06	0.00E+00	6.27E-06	2.39E-07	7.36E-07	0.00E+00	9.75E-07	1.35E-07	4.61E-07	0.00E+00	5.96E-07
265	587521.7	4154284	1.57E-06	3.44E-06	0.00E+00	5.01E-06	3.19E-06	3.48E-06	0.00E+00	6.67E-06	2.54E-07	7.82E-07	0.00E+00	1.04E-06	1.43E-07	4.90E-07	0.00E+00	6.33E-07
266	587527.2	4154276	1.65E-06	3.62E-06	0.00E+00	5.27E-06	3.36E-06	3.66E-06	0.00E+00	7.02E-06	2.67E-07	8.23E-07	0.00E+00	1.09E-06	1.51E-07	5.15E-07	0.00E+00	6.66E-07
267	587532.7	4154268	1.72E-06	3.76E-06	0.00E+00	5.48E-06	3.49E-06	3.81E-06	0.00E+00	7.30E-06	2.78E-07	8.56E-07	0.00E+00	1.13E-06	1.57E-07	5.36E-07	0.00E+00	6.93E-07
268	587501	4154370	1.00E-06	2.20E-06	0.00E+00	3.20E-06	2.04E-06	2.23E-06	0.00E+00	4.27E-06	1.63E-07	5.01E-07	0.00E+00	6.63E-07	9.17E-08	3.13E-07	0.00E+00	4.05E-07
269	587499.1	4154361	1.02E-06	2.24E-06	0.00E+00	3.26E-06	2.08E-06	2.27E-06	0.00E+00	4.34E-06	1.65E-07	5.09E-07	0.00E+00	6.75E-07	9.32E-08	3.19E-07	0.00E+00	4.12E-07
270	587497.2	4154352	1.04E-06	2.27E-06	0.00E+00	3.31E-06	2.11E-06	2.30E-06	0.00E+00	4.40E-06	1.68E-07	5.16E-07	0.00E+00	6.84E-07	9.46E-08	3.23E-07	0.00E+00	4.18E-07
271	587495.3	4154342	1.05E-06	2.30E-06	0.00E+00	3.35E-06	2.13E-06	2.33E-06	0.00E+00	4.46E-06	1.70E-07	5.23E-07	0.00E+00	6.92E-07	9.57E-08	3.27E-07	0.00E+00	4.23E-07
272	587493.5	4154333	1.06E-06	2.32E-06	0.00E+00	3.38E-06	2.15E-06	2.35E-06	0.00E+00	4.50E-06	1.71E-07	5.28E-07	0.00E+00	6.99E-07	9.66E-08	3.30E-07	0.00E+00	4.27E-07
273	587495.1	4154306	1.15E-06	2.53E-06	0.00E+00	3.68E-06	2.34E-06	2.56E-06	0.00E+00	4.90E-06	1.87E-07	5.75E-07	0.00E+00	7.62E-07	1.05E-07	3.60E-07	0.00E+00	4.65E-07
274	587511.4	4154283	1.40E-06	3.08E-06	0.00E+00	4.48E-06	2.85E-06	3.11E-06	0.00E+00	5.97E-06	2.27E-07	7.00E-07	0.00E+00	9.27E-07	1.28E-07	4.38E-07	0.00E+00	5.66E-07
275	587516.8	4154275	1.48E-06	3.24E-06	0.00E+00	4.72E-06	3.01E-06	3.28E-06	0.00E+00	6.29E-06	2.40E-07	7.37E-07	0.00E+00	9.77E-07	1.35E-07	4.62E-07	0.00E+00	5.97E-07
276	587522.2	4154267	1.54E-06	3.38E-06	0.00E+00	4.93E-06	3.14E-06	3.43E-06	0.00E+00	6.56E-06	2.50E-07	7.70E-07	0.00E+00	1.02E-06	1.41E-07	4.82E-07	0.00E+00	6.23E-07
277	587527.6	4154259	1.60E-06	3.50E-06	0.00E+00	5.10E-06	3.25E-06	3.54E-06	0.00E+00	6.79E-06	2.59E-07	7.97E-07	0.00E+00	1.06E-06	1.46E-07	4.99E-07	0.00E+00	6.45E-07
278	587492.9	4154377	9.02E-07	1.98E-06	0.00E+00	2.88E-06	1.83E-06	2.00E-06	0.00E+00	3.84E-06	1.46E-07	4.50E-07	0.00E+00	5.96E-07	8.24E-08	2.82E-07	0.00E+00	3.64E-07
279	587491	4154367	9.18E-07	2.01E-06	0.00E+00	2.93E-06	1.87E-06	2.04E-06	0.00E+00	3.90E-06	1.49E-07	4.58E-07	0.00E+00	6.06E-07	8.38E-08	2.87E-07	0.00E+00	3.70E-07
280	587489.2	4154358	9.32E-07	2.04E-06	0.00E+00	2.97E-06	1.89E-06	2.07E-06	0.00E+00	3.96E-06	1.51E-07	4.64E-07	0.00E+00	6.15E-07	8.51E-08	2.91E-07	0.00E+00	3.76E-07
281	587487.3	4154349	9.44E-07	2.07E-06	0.00E+00	3.01E-06	1.92E-06	2.09E-06	0.00E+00	4.01E-06	1.53E-07	4.71E-07	0.00E+00	6.23E-07	8.62E-08	2.95E-07	0.00E+00	3.81E-07
282	587485.4	4154340	9.55E-07	2.09E-06	0.00E+00	3.05E-06	1.94E-06	2.12E-06	0.00E+00	4.06E-06	1.55E-07	4.76E-07	0.00E+00	6.31E-07	8.72E-08	2.98E-07	0.00E+00	3.85E-07
283	587485.2	4154305	1.05E-06	2.29E-06	0.00E+00	3.34E-06	2.13E-06	2.32E-06	0.00E+00	4.45E-06	1.70E-07	5.22E-07	0.00E+00	6.92E-07	9.56E-08	3.27E-07	0.00E+00	4.22E-07
284	587490.5	4154297	1.12E-06	2.45E-06	0.00E+00	3.57E-06	2.28E-06	2.48E-06	0.00E+00	4.76E-06	1.81E-07	5.58E-07	0.00E+00	7.40E-07	1.02E-07	3.50E-07	0.00E+00	4.52E-07
285	587506.5	4154274	1.33E-06	2.92E-06	0.00E+00	4.25E-06	2.71E-06	2.96E-06	0.00E+00	5.66E-06	2.16E-07	6.64E-07	0.00E+00	8.80E-07	1.22E-07	4.16E-07	0.00E+00	5.38E-07
286	587511.8	4154266	1.39E-06	3.06E-06	0.00E+00	4.45E-06	2.83E-06	3.09E-06	0.00E+00	5.93E-06	2.26E-07	6.95E-07	0.00E+00	9.21E-07	1.27E-07	4.35E-07	0.00E+00	5.63E-07
287	587517.2	4154258	1.45E-06	3.17E-06	0.00E+00	4.62E-06	2.94E-06	3.21E-06	0.00E+00	6.15E-06	2.34E-07	7.21E-07	0.00E+00	9.56E-07	1.32E-07	4.52E-07	0.00E+00	5.84E-07
288	587522.5	4154251	1.49E-06	3.26E-06	0.00E+00	4.75E-06	3.03E-06	3.30E-06	0.00E+00	6.33E-06	2.41E-07	7.42E-07	0.00E+00	9.83E-07	1.36E-07	4.65E-07	0.00E+00	6.01E-07
289	587484.7	4154383	8.16E-07	1.79E-06	0.00E+00	2.60E-06	1.66E-06	1.81E-06	0.00E+00	3.47E-06	1.32E-07	4.07E-07	0.00E+00	5.39E-07	7.45E-08	2.55E-07	0.00E+00	3.29E-07
290	587482.9	4154374	8.30E-07	1.82E-06	0.00E+00	2.65E-06	1.69E-06	1.84E-06	0.00E+00	3.53E-06	1.34E-07	4.14E-07	0.00E+00	5.48E-07	7.58E-08	2.59E-07	0.00E+00	3.35E-07
291	587481	4154365	8.42E-07	1.85E-06	0.00E+00	2.69E-06	1.71E-06	1.87E-06	0.00E+00	3.58E-06	1.36E-07	4.20E-07	0.00E+00	5.56E-07	7.69E-08	2.63E-07	0.00E+00	3.40E-07
292	587479.2	4154356	8.54E-07	1.87E-06	0.00E+00	2.72E-06	1.74E-06	1.89E-06	0.00E+00	3.63E-06	1.38E-07	4.26E-07	0.00E+00	5.64E-07	7.79E-08	2.67E-07	0.00E+00	3.44E-07
293	587477.4	4154346	8.64E-07	1.89E-06	0.00E+00	2.76E-06	1.76E-06	1.92E-06	0.00E+00	3.67E-06	1.40E-07	4.31E-07	0.00E+00	5.71E-07	7.89E-08	2.70E-07	0.00E+00	3.49E-07
294	587475.6	4154337	8.74E-07	1.91E-06	0.00E+00	2.79E-06	1.78E-06	1.94E-06	0.00E+00	3.71E-06	1.41E-07	4.36E-07	0.00E+00	5.77E-07	7.98E-08	2.73E-07	0.00E+00	3.52E-07
295	587475.3	4154303	9.55E-07	2.09E-06	0.00E+00	3.05E-06	1.94E-06	2.12E-06	0.00E+00	4.06E-06	1.55E-07	4.76E-07	0.00E+00	6.31E-07	8.72E-08	2.98E-07	0.00E+00	3.85E-07
296	587480.6	4154295	1.02E-06	2.23E-06	0.00E+00	3.25E-06	2.07E-06	2.26E-06	0.00E+00	4.33E-06	1.65E-07	5.08E-07	0.00E+00	6.73E-07	9.30E-08	3.18E-07	0.00E+00	4.11E-07
297	587485.8	4154287	1.08E-06	2.37E-06	0.00E+00	3.46E-06	2.20E-06	2.40E-06	0.00E+00	4.60E-06	1.75E-07	5.40E-07	0.00E+00	7.15E-07	9.88E-08	3.38E-07	0.00E+00	4.37E-07
298	587501.5	4154265	1.26E-06	2.77E-06	0.00E+00	4.03E-06	2.57E-06	2.80E-06	0.00E+00	5.37E-06	2.05E-07	6.30E-07	0.00E+00	8.34E-07	1.15E-07	3.94E-07	0.00E+00	5.10E-07
299	587506.8	4154257	1.31E-06	2.88E-06	0.00E+00	4.19E-06	2.67E-06	2.91E-06	0.00E+00	5.58E-06	2.13E-07	6.55E-07	0.00E+00	8.68E-07	1.20E-07	4.10E-07	0.00E+00	5.30E-07
300	587512	4154249	1.36E-06	2.97E-06	0.00E+00	4.33E-06	2.76E-06	3.01E-06	0.00E+00	5.77E-06	2.20E-07	6.76E-07	0.00E+00	8.96E-07	1.24E-07	4.23E-07	0.00E+00	5.47E-07
301	587517.3	4154242	1.39E-06	3.05E-06	0.00E+00	4.43E-06	2.82E-06	3.08E-06	0.00E+00	5.91E-06	2.25E-07	6.93E-07	0.00E+00	9.18E-07	1.27E-07	4.34E-07	0.00E+00	5.61E-07
302	587476	4154386	7.46E-07	1.63E-06	0.00E+00	2.38E-06	1.52E-06	1.65E-06	0.00E+00	3.17E-06	1.21E-07	3.72E-07	0.00E+00	4.93E-07	6.81E-08	2.33E-07	0.00E+00	3.01E-07
303	587474.1	4154376	7.59E-07	1.66E-06	0.00E+00	2.42E-06	1.54E-06	1.68E-06	0.00E+00	3.23E-06	1.23E-07	3.78E-07	0.00E+00	5.01E-07	6.93E-08	2.37E-07	0.00E+00	3.06E-07
304	587472.1	4154367	7.71E-07	1.69E-06	0.00E+00	2.46E-06	1.57E-06	1.71E-06	0.00E+00	3.28E-06	1.25E-07	3.84E-07	0.00E+00	5.09E-07	7.04E-08	2.41E-07	0.00E+00	3.11E-07
305	587470.1	4154357	7.82E-07	1.71E-06	0.00E+00	2.49E-06	1.59E-06	1.73E-06	0.00E+00	3.32E-06	1.27E-07	3.90E-07	0.00E+00	5.16E-07	7.14E-08	2.44E-07	0.00E+00	3.15E-07
306	587468.2	4154347	7.92E-07	1.74E-06	0.00E+00	2.53E-06	1.61E-06	1.76E-06	0.00E+00	3.37E-06	1.28E-07	3.95E-07	0.00E+00	5.23E-07	7.23E-08	2.47E-07	0.00E+00	3.19E-07
307	587466.2	4154337	8.01E-07	1.76E-06	0.00E+00	2.56E-06	1.63E-06	1.78E-06	0.00E+00	3.41E-06	1.30E-07	3.99E-07	0.00E+00	5.29E-07	7.31E-08	2.50E-07	0.00E+00	3.23E-07
308	587465.9	4154300	8.81E-07	1.93E-06	0.00E+00	2.81E-06	1.79E-06	1.95E-06	0.00E+00	3.74E-06	1.43E-07	4.39E-07	0.00E+00	5.82E-07	8.04E-08	2.75E-07	0.00E+00	3.55E-07
309	587471.6	4154292	9.41E-07	2.06E-06	0.00E+00	3.00E-06	1.91E-06	2.09E-06	0.00E+00	4.00E-06	1.52E-07	4.69E-07	0.00E+00	6.22E-07	8.60E-08	2.94E-07	0.00E+00	3.80E-07
310	587477.2	4154284	1.00E-06	2.20E-06	0.00E+00	3.20E-06	2.04E-06	2.23E-06	0.00E+00	4.26E-06	1.62E-07	5.00E-07	0.00E+00	6.63E-07	9.16E-08	3.13E-07	0.00E+00	4.05E-07
311	587482.9	4154275	1.06E-06	2.33E-06	0.00E+00	3.39E-06	2.16E-06	2.36E-06	0.00E+00	4.52E-06	1.72E-07	5.30E-07	0.00E+00	7.02E-07	9.71E-08	3.32E-07	0.00E+00	4.29E-07
312	587499.8	4154251	1.22E-06	2.68E-06	0.00E+00	3.91E-06	2.49E-06	2.72E-06	0.00E+00	5.21E-06	1.98E-07	6.10E-07	0.00E+00	8.09E-07	1.12E-07	3.82E-07	0.00E+00	4.94E-07
313	587505.5	4154243	1.26E-06	2.77E-06	0.00E+00	4.04E-06	2.57E-06	2.81E-06	0.00E+00	5.38E-06	2.05E-07	6.30E-07	0.00E+00	8.35E-07	1.15E-07	3.95E-07	0.00E+00	5.10E-07
314	587511.1	4154235	1.29E-06	2.84E-06	0.00E+00	4.13E-06	2.63E-06	2.87E-06	0.00E+00	5.50E-06	2.10E-07	6.45E-07	0.00E+00	8.55E-07	1.18E-07	4.04E-07	0.00E+00	5.22E-07
315	587467.9	4154392	6.81E-07	1.49E-06	0.00E+00	2.17E-06	1.38E-06	1.51E-06	0.00E+00	2.90E-06	1.10E-07	3.40E-07	0.00E+00	4.50E-07	6.22E-08	2.13E-07	0.00E+00	2.75E-07
316	587465.9	4154383	6.93E-07	1.52E-06	0.00E+00	2.21E-06	1.41E-06	1.54E-06	0.00E+00	2.95E-06	1.12E-07	3.45E-07	0.00E+00	4.58E-07	6.33E-08	2.16E-07	0.00E+00	2.80E-07
317	587464	4154373	7.03E-07	1.54E-06	0.00E+00	2.25E-06	1.43E-06	1.56E-06	0.00E+00	2.99E-06	1.14E-07	3.51E-07	0.00E+00	4.65E-07	6.42E-08	2.20E-07	0.00E+00	2.84E-07
318	587462.1	4154364	7.13E-07	1.56E-06	0.00E+00	2.28E-06	1.45E-06	1.58E-06	0.00E+00	3.03E-06	1.16E-07	3.56E-07	0.00E+00	4.71E-07	6.51E-08	2.23E-07	0.00E+00	2.88E-07
319	587460.2	4154354	7.23E-07	1.58E-06	0.00E+00	2.31E-06	1.47E-06	1.60E-06	0.00E+00	3.07E-06	1.17E-07	3.60E-07	0.00E+00	4.77E-07	6.60E-08	2.26E-07	0.00E+00	2.92E-07
320	587458.2	4154345	7.32E-07	1.60E-06	0.00E+00	2.33E-06	1.49E-06	1.62E-06	0.00E+00	3.11E-06	1.18E-07	3.65E-07	0.00E+00	4.83E-07	6.68E-08	2.28E-07	0.00E+00	2.95E-07
321	587456.3	4154335	7.40E-07	1.62E-06	0.00E+00	2.36E-06	1.50E-06	1.64E-06	0.00E+00	3.14E-06	1.20E-07	3.69E-07	0.00E+00	4.89E-07	6.75E-08	2.31E-07	0.00E+00	2.99E-07
322	587454.4	4154325	7.47E-07	1.64E-06	0.00E+00	2.38E-06	1.52E-06	1.66E-06	0.00E+00	3.18E-06	1.21E-07	3.73E-07	0.00E+00	4.94E-07	6.82E-08	2.33E-07	0.00E+00	3.02E-07
323	587452.4	4154316	7.54E-07	1.65E-06	0.00E+00	2.41E-06	1.53E-06	1.67E-06	0.00E+00	3.20E-06	1.22E-07	3.76E-07	0.00E+00	4.98E-07	6.88E-08	2.35E-07	0.00E+00	3.04E-07
324	587456	4154298	8.10E-07	1.78E-06	0.00E+00	2.59E-06	1.65E-06	1.80E-06	0.00E+00	3.45E-06	1.31E-07	4.04E-07	0.00E+00	5.35E-07	7.40E-08	2.53E-07	0.00E+00	3.27E-07
325	587461.6	4154290	8.64E-07	1.89E-06	0.00E+00	2.76E-06	1.76E-06	1.92E-06	0.00E+00	3.67E-06	1.40E-07	4.31E-07	0.00E+00	5.70E-07	7.89E-08	2.70E-07	0.00E+00	3.48E-07
326	587467.1	4154282	9.18E-07	2.01E-06	0.00E+00	2.93E-06	1.87E-06	2.04E-06	0.00E+00	3.90E-06	1.49E-07	4.58E-07	0.00E+00	6.06E-07	8.38E-08	2.87E-07	0.00E+00	3.70E-07
327	587472.7	4154274	9.72E-07	2.13E-06	0.00E+00	3.10E-06	1.98E-06	2.16E-06	0.00E+00	4.13E-06	1.57E-07	4.85E-07	0.00E+00	6.42E-07	8.87E-08	3.03E-07	0.00E+00	3.92E-07

328	587478.2	4154266	1.02E-06	2.24E-06	0.00E+00	3.27E-06	2.08E-06	2.27E-06	0.00E+00	4.35E-06	1.66E-07	5.11E-07	0.00E+00	6.76E-07	9.35E-08	3.20E-07	0.00E+00	4.13E-07
329	587494.9	4154242	1.16E-06	2.54E-06	0.00E+00	3.70E-06	2.35E-06	2.57E-06	0.00E+00	4.92E-06	1.88E-07	5.78E-07	0.00E+00	7.65E-07	1.06E-07	3.62E-07	0.00E+00	4.67E-07
330	587500.4	4154234	1.19E-06	2.61E-06	0.00E+00	3.80E-06	2.42E-06	2.64E-06	0.00E+00	5.06E-06	1.93E-07	5.93E-07	0.00E+00	7.86E-07	1.09E-07	3.71E-07	0.00E+00	4.80E-07
331	587506	4154226	1.21E-06	2.66E-06	0.00E+00	3.87E-06	2.47E-06	2.69E-06	0.00E+00	5.16E-06	1.96E-07	6.05E-07	0.00E+00	8.01E-07	1.11E-07	3.79E-07	0.00E+00	4.89E-07
332	587459.7	4154398	6.26E-07	1.37E-06	0.00E+00	2.00E-06	1.27E-06	1.39E-06	0.00E+00	2.66E-06	1.01E-07	3.12E-07	0.00E+00	4.13E-07	5.71E-08	1.95E-07	0.00E+00	2.52E-07
333	587457.8	4154389	6.36E-07	1.39E-06	0.00E+00	2.03E-06	1.29E-06	1.41E-06	0.00E+00	2.70E-06	1.03E-07	3.17E-07	0.00E+00	4.20E-07	5.80E-08	1.98E-07	0.00E+00	2.57E-07
334	587455.9	4154380	6.45E-07	1.41E-06	0.00E+00	2.06E-06	1.31E-06	1.43E-06	0.00E+00	2.74E-06	1.05E-07	3.22E-07	0.00E+00	4.26E-07	5.89E-08	2.01E-07	0.00E+00	2.60E-07
335	587454	4154370	6.54E-07	1.43E-06	0.00E+00	2.09E-06	1.33E-06	1.45E-06	0.00E+00	2.78E-06	1.06E-07	3.26E-07	0.00E+00	4.32E-07	5.97E-08	2.04E-07	0.00E+00	2.64E-07
336	587452.1	4154361	6.63E-07	1.45E-06	0.00E+00	2.11E-06	1.35E-06	1.47E-06	0.00E+00	2.82E-06	1.07E-07	3.30E-07	0.00E+00	4.38E-07	6.05E-08	2.07E-07	0.00E+00	2.67E-07
337	587450.2	4154351	6.71E-07	1.47E-06	0.00E+00	2.14E-06	1.36E-06	1.49E-06	0.00E+00	2.85E-06	1.09E-07	3.34E-07	0.00E+00	4.43E-07	6.12E-08	2.09E-07	0.00E+00	2.71E-07
338	587448.3	4154342	6.78E-07	1.49E-06	0.00E+00	2.17E-06	1.38E-06	1.51E-06	0.00E+00	2.88E-06	1.10E-07	3.38E-07	0.00E+00	4.48E-07	6.19E-08	2.12E-07	0.00E+00	2.74E-07
339	587446.4	4154333	6.86E-07	1.5E-06	0.00E+00	2.19E-06	1.39E-06	1.52E-06	0.00E+00	2.92E-06	1.11E-07	3.42E-07	0.00E+00	4.53E-07	6.26E-08	2.14E-07	0.00E+00	2.77E-07
340	587444.5	4154323	6.93E-07	1.52E-06	0.00E+00	2.21E-06	1.41E-06	1.54E-06	0.00E+00	2.94E-06	1.12E-07	3.45E-07	0.00E+00	4.57E-07	6.32E-08	2.16E-07	0.00E+00	2.79E-07
341	587442.6	4154314	6.99E-07	1.53E-06	0.00E+00	2.23E-06	1.42E-06	1.55E-06	0.00E+00	2.97E-06	1.13E-07	3.48E-07	0.00E+00	4.62E-07	6.38E-08	2.18E-07	0.00E+00	2.82E-07
342	587446.2	4154296	7.49E-07	1.64E-06	0.00E+00	2.39E-06	1.52E-06	1.66E-06	0.00E+00	3.18E-06	1.21E-07	3.73E-07	0.00E+00	4.95E-07	6.84E-08	2.34E-07	0.00E+00	3.02E-07
343	587451.6	4154288	7.96E-07	1.74E-06	0.00E+00	2.54E-06	1.62E-06	1.77E-06	0.00E+00	3.38E-06	1.29E-07	3.97E-07	0.00E+00	5.26E-07	7.27E-08	2.48E-07	0.00E+00	3.21E-07
344	587457.1	4154280	8.44E-07	1.85E-06	0.00E+00	2.69E-06	1.72E-06	1.87E-06	0.00E+00	3.59E-06	1.37E-07	4.21E-07	0.00E+00	5.58E-07	7.71E-08	2.64E-07	0.00E+00	3.41E-07
345	587462.5	4154273	8.93E-07	1.96E-06	0.00E+00	2.85E-06	1.81E-06	1.98E-06	0.00E+00	3.79E-06	1.45E-07	4.45E-07	0.00E+00	5.90E-07	8.15E-08	2.79E-07	0.00E+00	3.60E-07
346	587468	4154265	9.4E-07	2.06E-06	0.00E+00	3.00E-06	1.91E-06	2.09E-06	0.00E+00	4.00E-06	1.52E-07	4.69E-07	0.00E+00	6.21E-07	8.58E-08	2.93E-07	0.00E+00	3.79E-07
347	587473.5	4154257	9.85E-07	2.16E-06	0.00E+00	3.14E-06	2.00E-06	2.19E-06	0.00E+00	4.19E-06	1.60E-07	4.91E-07	0.00E+00	6.51E-07	9.00E-08	3.08E-07	0.00E+00	3.98E-07
348	587484.4	4154241	1.06E-06	2.33E-06	0.00E+00	3.40E-06	2.16E-06	2.36E-06	0.00E+00	4.52E-06	1.72E-07	5.31E-07	0.00E+00	7.03E-07	9.72E-08	3.32E-07	0.00E+00	4.29E-07
349	587489.8	4154233	1.1E-06	2.4E-06	0.00E+00	3.50E-06	2.23E-06	2.43E-06	0.00E+00	4.66E-06	1.77E-07	5.46E-07	0.00E+00	7.24E-07	1.00E-07	3.42E-07	0.00E+00	4.42E-07
350	587495.3	4154225	1.12E-06	2.46E-06	0.00E+00	3.58E-06	2.28E-06	2.49E-06	0.00E+00	4.76E-06	1.81E-07	5.59E-07	0.00E+00	7.40E-07	1.02E-07	3.50E-07	0.00E+00	4.52E-07
351	587500.8	4154217	1.14E-06	2.49E-06	0.00E+00	3.63E-06	2.31E-06	2.52E-06	0.00E+00	4.84E-06	1.84E-07	5.67E-07	0.00E+00	7.51E-07	1.04E-07	3.55E-07	0.00E+00	4.59E-07
352	587449.7	4154395	5.86E-07	1.28E-06	0.00E+00	1.87E-06	1.19E-06	1.30E-06	0.00E+00	2.49E-06	9.49E-08	2.92E-07	0.00E+00	3.87E-07	5.35E-08	1.83E-07	0.00E+00	2.36E-07
353	587447.8	4154386	5.94E-07	1.3E-06	0.00E+00	1.90E-06	1.21E-06	1.32E-06	0.00E+00	2.53E-06	9.63E-08	2.96E-07	0.00E+00	3.93E-07	5.43E-08	1.86E-07	0.00E+00	2.40E-07
354	587445.9	4154377	6.02E-07	1.32E-06	0.00E+00	1.92E-06	1.22E-06	1.34E-06	0.00E+00	2.56E-06	9.76E-08	3.00E-07	0.00E+00	3.98E-07	5.50E-08	1.88E-07	0.00E+00	2.43E-07
355	587444	4154367	6.1E-07	1.34E-06	0.00E+00	1.95E-06	1.24E-06	1.35E-06	0.00E+00	2.59E-06	9.88E-08	3.04E-07	0.00E+00	4.03E-07	5.57E-08	1.90E-07	0.00E+00	2.46E-07
356	587442.2	4154358	6.17E-07	1.35E-06	0.00E+00	1.97E-06	1.25E-06	1.37E-06	0.00E+00	2.62E-06	1.00E-07	3.08E-07	0.00E+00	4.08E-07	5.64E-08	1.93E-07	0.00E+00	2.49E-07
357	587440.3	4154349	6.24E-07	1.37E-06	0.00E+00	1.99E-06	1.27E-06	1.39E-06	0.00E+00	2.65E-06	1.01E-07	3.11E-07	0.00E+00	4.12E-07	5.70E-08	1.95E-07	0.00E+00	2.52E-07
358	587438.4	4154339	6.31E-07	1.38E-06	0.00E+00	2.02E-06	1.28E-06	1.40E-06	0.00E+00	2.68E-06	1.02E-07	3.15E-07	0.00E+00	4.17E-07	5.76E-08	1.97E-07	0.00E+00	2.55E-07
359	587436.5	4154330	6.38E-07	1.4E-06	0.00E+00	2.04E-06	1.30E-06	1.42E-06	0.00E+00	2.71E-06	1.03E-07	3.18E-07	0.00E+00	4.21E-07	5.82E-08	1.99E-07	0.00E+00	2.57E-07
360	587434.7	4154321	6.44E-07	1.41E-06	0.00E+00	2.06E-06	1.31E-06	1.43E-06	0.00E+00	2.74E-06	1.04E-07	3.21E-07	0.00E+00	4.25E-07	5.88E-08	2.01E-07	0.00E+00	2.60E-07
361	587432.8	4154312	6.5E-07	1.42E-06	0.00E+00	2.07E-06	1.32E-06	1.44E-06	0.00E+00	2.76E-06	1.05E-07	3.24E-07	0.00E+00	4.29E-07	5.93E-08	2.03E-07	0.00E+00	2.62E-07
362	587436.3	4154294	6.95E-07	1.52E-06	0.00E+00	2.22E-06	1.41E-06	1.54E-06	0.00E+00	2.95E-06	1.13E-07	3.46E-07	0.00E+00	4.59E-07	6.34E-08	2.17E-07	0.00E+00	2.80E-07
363	587441.7	4154287	7.36E-07	1.61E-06	0.00E+00	2.35E-06	1.50E-06	1.63E-06	0.00E+00	3.13E-06	1.19E-07	3.67E-07	0.00E+00	4.86E-07	6.72E-08	2.30E-07	0.00E+00	2.97E-07
364	587447.1	4154279	7.79E-07	1.71E-06	0.00E+00	2.49E-06	1.58E-06	1.73E-06	0.00E+00	3.31E-06	1.26E-07	3.89E-07	0.00E+00	5.15E-07	7.12E-08	2.43E-07	0.00E+00	3.14E-07
365	587452.5	4154271	8.23E-07	1.8E-06	0.00E+00	2.63E-06	1.67E-06	1.83E-06	0.00E+00	3.50E-06	1.33E-07	4.10E-07	0.00E+00	5.44E-07	7.51E-08	2.57E-07	0.00E+00	3.32E-07
366	587457.8	4154263	8.66E-07	1.9E-06	0.00E+00	2.76E-06	1.76E-06	1.92E-06	0.00E+00	3.68E-06	1.40E-07	4.32E-07	0.00E+00	5.72E-07	7.91E-08	2.70E-07	0.00E+00	3.49E-07
367	587463.2	4154255	9.07E-07	1.99E-06	0.00E+00	2.90E-06	1.84E-06	2.01E-06	0.00E+00	3.86E-06	1.47E-07	4.52E-07	0.00E+00	5.99E-07	8.28E-08	2.83E-07	0.00E+00	3.66E-07
368	587468.6	4154248	9.46E-07	2.07E-06	0.00E+00	3.02E-06	1.92E-06	2.10E-06	0.00E+00	4.02E-06	1.53E-07	4.72E-07	0.00E+00	6.25E-07	8.64E-08	2.95E-07	0.00E+00	3.82E-07
369	587479.4	4154232	1.01E-06	2.22E-06	0.00E+00	3.23E-06	2.06E-06	2.25E-06	0.00E+00	4.30E-06	1.64E-07	5.05E-07	0.00E+00	6.68E-07	9.24E-08	3.16E-07	0.00E+00	4.08E-07
370	587484.8	4154224	1.04E-06	2.27E-06	0.00E+00	3.31E-06	2.11E-06	2.30E-06	0.00E+00	4.41E-06	1.68E-07	5.17E-07	0.00E+00	6.85E-07	9.46E-08	3.24E-07	0.00E+00	4.18E-07
371	587490.2	4154216	1.06E-06	2.31E-06	0.00E+00	3.37E-06	2.15E-06	2.34E-06	0.00E+00	4.49E-06	1.71E-07	5.26E-07	0.00E+00	6.97E-07	9.64E-08	3.29E-07	0.00E+00	4.26E-07
372	587495.5	4154208	1.07E-06	2.34E-06	0.00E+00	3.41E-06	2.17E-06	2.37E-06	0.00E+00	4.54E-06	1.73E-07	5.33E-07	0.00E+00	7.06E-07	9.75E-08	3.34E-07	0.00E+00	4.31E-07
373	587441.5	4154401	5.42E-07	1.19E-06	0.00E+00	1.73E-06	1.10E-06	1.20E-06	0.00E+00	2.30E-06	8.78E-08	2.70E-07	0.00E+00	3.58E-07	4.95E-08	1.69E-07	0.00E+00	2.19E-07
374	587439.6	4154392	5.5E-07	1.2E-06	0.00E+00	1.75E-06	1.12E-06	1.22E-06	0.00E+00	2.34E-06	8.90E-08	2.74E-07	0.00E+00	3.63E-07	5.02E-08	1.72E-07	0.00E+00	2.22E-07
375	587437.8	4154383	5.57E-07	1.22E-06	0.00E+00	1.78E-06	1.13E-06	1.24E-06	0.00E+00	2.37E-06	9.02E-08	2.78E-07	0.00E+00	3.68E-07	5.08E-08	1.74E-07	0.00E+00	2.25E-07
376	587435.9	4154374	5.64E-07	1.24E-06	0.00E+00	1.80E-06	1.15E-06	1.25E-06	0.00E+00	2.40E-06	9.13E-08	2.81E-07	0.00E+00	3.72E-07	5.15E-08	1.76E-07	0.00E+00	2.27E-07
377	587434.1	4154365	5.7E-07	1.25E-06	0.00E+00	1.82E-06	1.16E-06	1.26E-06	0.00E+00	2.42E-06	9.23E-08	2.84E-07	0.00E+00	3.77E-07	5.21E-08	1.78E-07	0.00E+00	2.30E-07
378	587432.2	4154355	5.77E-07	1.26E-06	0.00E+00	1.84E-06	1.17E-06	1.28E-06	0.00E+00	2.45E-06	9.34E-08	2.88E-07	0.00E+00	3.81E-07	5.27E-08	1.80E-07	0.00E+00	2.33E-07
379	587430.4	4154346	5.83E-07	1.28E-06	0.00E+00	1.86E-06	1.19E-06	1.29E-06	0.00E+00	2.48E-06	9.44E-08	2.91E-07	0.00E+00	3.85E-07	5.32E-08	1.82E-07	0.00E+00	2.35E-07
380	587428.5	4154337	5.89E-07	1.29E-06	0.00E+00	1.88E-06	1.20E-06	1.31E-06	0.00E+00	2.51E-06	9.54E-08	2.94E-07	0.00E+00	3.89E-07	5.38E-08	1.84E-07	0.00E+00	2.38E-07
381	587426.7	4154328	5.95E-07	1.3E-06	0.00E+00	1.90E-06	1.21E-06	1.32E-06	0.00E+00	2.53E-06	9.64E-08	2.97E-07	0.00E+00	3.93E-07	5.44E-08	1.86E-07	0.00E+00	2.40E-07
382	587424.8	4154319	6.01E-07	1.32E-06	0.00E+00	1.92E-06	1.22E-06	1.33E-06	0.00E+00	2.55E-06	9.73E-08	3.00E-07	0.00E+00	3.97E-07	5.49E-08	1.88E-07	0.00E+00	2.43E-07
383	587423	4154309	6.06E-07	1.33E-06	0.00E+00	1.94E-06	1.23E-06	1.35E-06	0.00E+00	2.58E-06	9.82E-08	3.02E-07	0.00E+00	4.00E-07	5.54E-08	1.89E-07	0.00E+00	2.45E-07
384	587426.4	4154292	6.47E-07	1.42E-06	0.00E+00	2.06E-06	1.31E-06	1.43E-06	0.00E+00	2.75E-06	1.05E-07	3.22E-07	0.00E+00	4.27E-07	5.90E-08	2.02E-07	0.00E+00	2.61E-07
385	587431.8	4154285	6.84E-07	1.5E-06	0.00E+00	2.18E-06	1.39E-06	1.52E-06	0.00E+00	2.91E-06	1.11E-07	3.41E-07	0.00E+00	4.52E-07	6.24E-08	2.13E-07	0.00E+00	2.76E-07
386	587437.1	4154277	7.22E-07	1.58E-06	0.00E+00	2.30E-06	1.47E-06	1.60E-06	0.00E+00	3.07E-06	1.17E-07	3.60E-07	0.00E+00	4.77E-07	6.59E-08	2.25E-07	0.00E+00	2.91E-07
387	587442.4	4154269	7.61E-07	1.67E-06	0.00E+00	2.43E-06	1.55E-06	1.69E-06	0.00E+00	3.24E-06	1.23E-07	3.80E-07	0.00E+00	5.03E-07	6.95E-08	2.38E-07	0.00E+00	3.07E-07
388	587447.7	4154262	8E-07	1.75E-06	0.00E+00	2.55E-06	1.63E-06	1.78E-06	0.00E+00	3.40E-06	1.30E-07	3.99E-07	0.00E+00	5.29E-07	7.31E-08	2.50E-07	0.00E+00	3.23E-07
389	587453.1	4154254	8.39E-07	1.84E-06	0.00E+00	2.68E-06	1.70E-06	1.86E-06	0.00E+00	3.56E-06	1.36E-07	4.18E-07	0.00E+00	5.54E-07	7.66E-08	2.62E-07	0.00E+00	3.38E-07
390	587474.3	4154223	9.62E-07	2.11E-06	0.00E+00	3.07E-06	1.96E-06	2.14E-06	0.00E+00	4.09E-06	1.56E-07	4.80E-07	0.00E+00	6.36E-07	8.79E-08	3.00E-07	0.00E+00	3.88E-07
391	587479.7	4154215	9.81E-07	2.15E-06	0.00E+00	3.13E-06	1.99E-06	2.18E-06	0.00E+00	4.17E-06	1.59E-07	4.89E-07	0.00E+00	6.48E-07	8.96E-08	3.06E-07	0.00E+00	3.96E-07
392	587485	4154208	9.95E-07	2.18E-06	0.00E+00	3.18E-06	2.02E-06	2.21E-06	0.00E+00	4.23E-06	1.61E-07	4.96E-07	0.00E+00	6.57E-07	9.09E-08	3.11E-07	0.00E+00	4.01E-07
393	587490.3	4154200	1.01E-06	2.2E-06	0.00E+00	3.21E-06	2.04E-06	2.23E-06	0.00E+00	4.27E-06	1.63E-07	5.01E-07	0.00E+00	6.64E-07	9.18E-08	3.14E-07	0.00E+00	4.06E-07
394	587434.8	4154415	4.97E-07	1.09E-06	0.00E+00	1.59E-06	1.01E-06	1.10E-06	0.00E+00	2.11E-06	8.05E-08	2.48E-07	0.00E+00	3.28E-07	4.54E-08	1.55E-07	0.00E+00	2.01E-07
395	587432.8	4154405	5.05E-07	1.11E-06	0.00E+00	1.61E-06	1.03E-06	1.12E-06	0.00E+00	2.15E-06	8.18E-08	2.52E-07	0.00E+00	3.34E-07	4.61E-08	1.58E-07	0.00E+00	2.04E-07
396	587430.9	4154395	5.12E-07	1.12E-06	0.00E+00	1.63E-06	1.04E-06	1.14E-06	0.00E+00	2.18E-06	8.29E-08	2.55E-07	0.00E+00	3.38E-07	4.68E-08	1.60E-07	0.00E+00	2.07E-07
397	587428.9	4154386	5.19E-07	1.14E-06	0.00E+00	1.66E-06	1.05E-06	1.15E-06	0.00E+00	2.21E-06	8.40E-08	2.59E-07	0.00E+00	3.43E-07	4.74E-08	1.62E-07	0.00E+00	2.09E-07
398	587427	4154376	5.25E-07	1.15E-06	0.00E+00	1.68E-06	1.07E-06	1.17E-06	0.00E+00	2.23E-06	8.51E-08	2.62E-07	0.00E+00	3.47E-07	4.80E-08	1.64E-07	0.00E+00	2.12E-07
399	587425	4154366	5.32E-07	1.17E-06	0.00E+00	1.70E-06	1.08E-06	1.18E-06	0.00E+00	2.26E-06	8.61E-08	2.65E-07	0.00E+00	3.51E-07	4.85E-08	1.66E-07	0.00E+00	2.15E-07
400	587423.1	4154356	5.38E-07	1.18E-06	0.00E+00	1.72E-06	1.09E-06	1.19E-06	0.00E+00	2.29E-06	8.71E-08	2.68E-07	0.00E+00	3.55E-07	4.91E-08	1.68E-07	0.00E+00	2.17E-07
401	587421.1	4154347	5.44E-07	1.19E-06	0.00E+00	1.74E-06	1.11E-06	1.21E-06	0.00E+00	2.31E-06	8.81E-08	2.71E-07	0.00E+00	3.59E-07	4.97E-08	1.70E-07	0.00E+00	2.20E-07
402	587419.1	4154337	5.5E-07	1.21E-06	0.00E+00	1.76E-06	1.12E-06	1.22E-06	0.00E+00	2.34E-06	8.91E-08	2.74E-07	0.00E+00	3.63E-07	5.02E-08	1.72E-07	0.00E+00	2.22E-07
403	587417.2	4154327	5.56E-07	1.22E-06	0.00E+00	1.77E-06	1.13E-06	1.23E-06	0.00E+00	2.36E-06	9.01E-08	2.77E-07	0.00E+00	3.67E-07	5.08E-08	1.74E-07	0.00E+00	2.24E-07
404	587415.2	4154318	5.62E-07	1.23E-06	0.00E+00	1.79E-06	1.14E-06	1.25E-06	0.00E+00	2.39E-06	9.10E-08	2.80E-07	0.00E+00	3.71E-07	5.13E-08	1.75E-07	0.00E+00	2.27E-07
405	587413.3	4154308	5.67E-07	1.24E-06	0.00E+00	1.81E-06	1.15E-06	1.26E-06	0.00E+00	2.41E-06	9.18E-08	2.83E-07	0.00E+00	3.74E-07	5.18E-08	1.77E-07	0.00E+00	2.29E-07
406	587416.9	4154290	6.06E-07	1.33E-06	0.00E+00	1.93E-06	1.23E-06	1.34E-06	0.00E+00	2.58E-06	9.81E-08	3.02E-07	0.00E+00	4.00E-07	5.53E-08	1.89E-07	0.00E+00	2.44E-07
407	587422.6	4154282	6.42E-07	1.41E-06	0.00E+00	2.05E-06	1.30E-06	1.42E-06	0.00E+00	2.73E-06	1.04E-07	3.20E-07	0.00E+00	4.24E-07	5.86E-08	2.00E-07	0.00E+00	2.59E-07
408	587428.2	4154274	6.79E-07	1.49E-06	0.00E+00	2.17E-06	1.38E-06	1.51E-06	0.00E+00	2.88E-06	1.10E-07	3.38E-07	0.00E+00	4.48E-07	6.20E-08	2.12E-07	0.00E+00	2.74E-07
409	587467.5	4154217	9.1E-07	1.99E-06	0.00E+00	2.90E-06	1.85E-06	2.02E-06	0.00E+00	3.87E-06	1.47E-07	4.54E-07	0.00E+00	6.01E-07	8.31E-08	2.84E-07	0.00E+00	3.67E-07
410	587473.1	4154209	9.27E-07	2.03E-06	0.00E+00	2.96E-06	1.89E-06	2.06E-06	0.00E+00	3.94E-06	1.50E-07	4.62E-07	0.00E+00	6.13E-07	8.47E-08	2.90E-07	0.00E+00	3.74E-07
411	587478.7	4154200	9.4E-07	2.06E-06	0.00E+00	3.00E-06	1.91E-06	2.08E-06	0.00E+00	3.99E-06	1.52E-07	4.68E-07	0.00E+00	6.21E-07	8.58E-08	2.93E-07	0.00E+00	3.79E-07
412	587484.4	4154192	9.47E-07	2.07E-06	0.00E+00	3.02E-06	1.92E-06	2.10E-06	0.00E+00	4.02E-06	1.53E-07	4.72E-07	0.00E+00	6.25E-07	8.64E-08	2.96E-07	0.00E+00	3.82E-07
413	587424.7	4154411	4.7E-07	1.03E-06	0.00E+00	1.50E-06	9.56E-07	1.04E-06	0.00E+00	2.00E-06	7.61E-08	2.34E-07	0.00E+00	3.11E-07	4.29E-08	1.47E-07	0.00E+00	1.90E-07
414	587422.8	4154402	4.77E-07	1.04E-06	0.00E+00	1.52E-06	9.69E-07	1.06E-06	0.00E+00	2.03E-06	7.72E-08	2.38E-07	0.00E+00	3.15E-07	4.35E-08	1.49E-07	0.00E+00	1.92E-07
415	587420.8	4154392	4.83E-07	1.06E-06	0.00E+00	1.54E-06	9.81E-07	1.07E-06	0.00E+00	2.05E-06	7.82E-08	2.41E-07	0.00E+00	3.19E-07	4.41E-08	1.51E-07	0.00E+00	1.95E-07
416	587418.9	4154382	4.89E-07	1.07E-06	0.00E+00	1.56E-06	9.93E-07	1.08E-06	0.00E+00	2.08E-06	7.91E-08	2.44E-07	0.00E+00	3.23E-07	4.46E-08	1.53E-07	0.00E+00	1.97E-07
417	587417	4154373	4.94E-07	1.08E-06	0.00E+00	1.58E-06	1.00E-06	1.10E-06	0.00E+00	2.10E-06	8.00E-08	2.46E-07	0.00E+00	3.26E-07	4.51E-08	1.54E-07	0.00E+00	1.99E-07
418	587415	4154363	5E-07	1.1E-06	0.00E+00	1.60E-06	1.02E-06	1.11E-06	0.00E+00	2.12E-06	8.09E-08	2.49E-07	0.00E+00	3.30E-07	4.56E-08	1.56E-07	0.00E+00	2.02E-07
419	587413.1	4154354	5.05E-07	1.11E-06	0.00E+00	1.61E-06	1.03E-06	1.12E-06	0.00E+00	2.15E-06	8.18E-08	2.52E-07	0.00E+00	3.34E-07	4.61E-08	1.58E-07	0.00E+00	2.04E-07
420	587411.2	4154344	5.11E-07	1.12E-06	0.00E+00	1.63E-06	1.04E-06	1.13E-06	0.00E+00	2.17E-06	8.27E-08	2.55E-07	0.00E+00	3.37E-07	4.66E-08	1.59E-07	0.00E+00	2.06E-07
421	587409.2	4154334	5.16E-07	1.13E-06	0.00E+00	1.65E-06	1.05E-06	1.15E-06	0.00E+00	2.20E-06	8.36E-08	2.57E-07	0.00E+00	3.41E-07	4.72E-08	1.61E-07	0.00E+00	2.08E-07
422	587407.3	4154325	5.22E-07	1.14E-06	0.00E+00	1.67E-06	1.06E-06	1.16E-06	0.00E+00	2.22E-06	8.45E-08	2.60E-07	0.00E+00	3.45E-07	4.76E-08	1.63E-07	0.00E+00	2.11E-07
423	587405.4	4154315	5.27E-07	1.16E-06	0.00E+00	1.68E-06	1.07E-06	1.17E-06	0.00E+00	2.24E-06	8.54E-08	2.63E-07	0.00E+00	3.48E-07	4.81E-08	1.65E-07	0.00E+00	2.13E-07
424	587403.4	4154306	5.32E-07	1.17E-06	0.00E+00	1.70E-06	1.08E-06	1.18E-06	0.00E+00	2.26E-06	8.61E-08	2.65E-07	0.00E+00	3.51E-07	4.86E-08	1.66E-07	0.00E+00	2.15E-07
425	587407.1	4154288	5.67E-07	1.24E-06	0.00E+00	1.81E-06	1.15E-06	1.26E-06	0.00E+00	2.41E-06	9.18E-08	2.83E-07	0.00E+00	3.75E-07	5.18E-08	1.77E-07	0.00E+00	2.29E-07
426	587412.6	4154280	5.99E-07	1.31E-06	0.00E+00	1.91E-06	1.22E-06	1.33E-06	0.00E+00	2.55E-06	9.70E-08	2.99E-07	0.00E+00	3.96E-07	5.47E-08	1.87E-07	0.00E+00	2.42E-07
427	587418.2	4154272	6.32E-07	1.39E-06	0.00E+00	2.02E-06	1.29E-06	1.40E-06	0.00E+00	2.69E-06	1.02E-07	3.15E-07	0.00E+00	4.18E-07	5.77E-08	1.97E-07	0.00E+00	2.55E-07
428	587440.3	4154240	7.66E-07	1.68E-06	0.00E+00	2.45E-06	1.56E-06	1.70E-06	0.00E+00	3.26E-06	1.24E-07	3.82E-07	0.00E+00	5.06E-07	7.00E-08	2.39E-07	0.00E+00	3.09E-07
429	587445.9	4154232	7.97E-07	1.75E-06	0.00E+00	2.54E-06	1.62E-06	1.77E-06	0.00E+00	3.39E-06	1.29E-07	3.97E-07	0.00E+00	5.26E-07	7.27E-08	2.49E-07	0.00E+00	3.21E-07
430	587462.5	4154208	8.67E-07	1.9E-06	0.00E+00	2.77E-06	1.76E-06	1.92E-06	0.00E+00	3.69E-06	1.40E-07	4.32E-07	0.00E+00	5.73E-07	7.92E-08	2.71E-07	0.00E+00	3.50E-07
431	587468.1	4154200	8.82E-07	1.93E-06	0.00E+00	2.81E-06	1.79E-06	1.96E-06	0.00E+00	3.75E-06	1.43E-07	4.40E-07	0.00E+00	5.82E-07	8.05E-08	2.75E-07	0.00E+00	3.56E-07
432	587473.6	4154192	8.91E-07	1.95E-06	0.00E+00	2.84E-06	1.81E-06	1.98E-06	0.00E+00	3.79E-06	1.44E-07	4.44E-07	0.00E+00	5.88E-07	8.13E-08	2.78E-07	0.00E+00	3.59E-07
433	587479.2	4154184	8.95E-07	1.96E-06	0.00E+00	2.86E-06	1.82E-06	1.99E-06	0.00E+00	3.80E-06	1.45E-07	4.46E-07	0.00E+00	5.91E-07	8.17E-08	2.79E-07	0.00E+00	3.61E-07
434	587416.5	4154417	4.39E-07	9.62E-07	0.00E+00	1.40E-06	8.92E-07	9.74E-07	0.00E+00	1.87E-06	7.11E-08	2.19E-07	0.00E+00	2.90E-07	4.01E-08	1.37E-07	0.00E+00	1.77E-07
435	587414.6	4154408	4.45E-07	9.75E-07	0.00E+00	1.42E-06	9.04E-07	9.87E-07	0.00E+00	1.89E-06	7.20E-08	2.22E-07	0.00E+00	2.94E-07	4.06E-08	1.39E-07	0.00E+00	1.80E-07
436	587412.7	4154398	4.5E-07	9.87E-07	0.00E+00	1.44E-06	9.15E-07	9.99E-07	0.00E+00	1.91E-06	7.29E-08	2.25E-07	0.00E+00	2.97E-07	4.11E-08	1.41E-07	0.00E+00	1.82E-07
437	587410.8	4154389	4.56E-07	9.99E-07	0.00E+00	1.45E-06	9.26E-07	1.01E-06	0.00E+00	1.94E-06	7.38E-08	2.27E-07	0.00E+00	3.01E-07	4.16E-08	1.42E-07	0.00E+00	1.84E-07

438	587408.9	4154379	4.61E-07	1.01E-06	0.00E+00	1.47E-06	9.36E-07	1.02E-06	0.00E+00	1.96E-06	7.46E-08	2.30E-07	0.00E+00	3.04E-07	4.21E-08	1.44E-07	0.00E+00	1.86E-07
439	587407	4154370	4.66E-07	1.02E-06	0.00E+00	1.49E-06	9.47E-07	1.03E-06	0.00E+00	1.98E-06	7.54E-08	2.32E-07	0.00E+00	3.08E-07	4.25E-08	1.45E-07	0.00E+00	1.88E-07
440	587403.2	4154351	4.76E-07	1.04E-06	0.00E+00	1.52E-06	9.67E-07	1.06E-06	0.00E+00	2.02E-06	7.71E-08	2.37E-07	0.00E+00	3.14E-07	4.34E-08	1.49E-07	0.00E+00	1.92E-07
441	587401.3	4154341	4.81E-07	1.05E-06	0.00E+00	1.53E-06	9.77E-07	1.07E-06	0.00E+00	2.04E-06	7.79E-08	2.40E-07	0.00E+00	3.18E-07	4.39E-08	1.50E-07	0.00E+00	1.94E-07
442	587399.4	4154332	4.86E-07	1.07E-06	0.00E+00	1.55E-06	9.88E-07	1.08E-06	0.00E+00	2.07E-06	7.87E-08	2.42E-07	0.00E+00	3.21E-07	4.44E-08	1.52E-07	0.00E+00	1.96E-07
443	587397.4	4154323	4.91E-07	1.08E-06	0.00E+00	1.57E-06	9.98E-07	1.09E-06	0.00E+00	2.09E-06	7.95E-08	2.45E-07	0.00E+00	3.24E-07	4.48E-08	1.53E-07	0.00E+00	1.98E-07
444	587395.5	4154313	4.96E-07	1.09E-06	0.00E+00	1.58E-06	1.01E-06	1.10E-06	0.00E+00	2.11E-06	8.03E-08	2.47E-07	0.00E+00	3.27E-07	4.53E-08	1.55E-07	0.00E+00	2.00E-07
445	587393.6	4154304	5E-07	1.1E-06	0.00E+00	1.60E-06	1.02E-06	1.11E-06	0.00E+00	2.13E-06	8.10E-08	2.49E-07	0.00E+00	3.30E-07	4.57E-08	1.56E-07	0.00E+00	2.02E-07
446	587397.2	4154286	5.32E-07	1.17E-06	0.00E+00	1.70E-06	1.08E-06	1.18E-06	0.00E+00	2.26E-06	8.62E-08	2.65E-07	0.00E+00	3.51E-07	4.86E-08	1.66E-07	0.00E+00	2.15E-07
447	587402.7	4154278	5.61E-07	1.23E-06	0.00E+00	1.79E-06	1.14E-06	1.24E-06	0.00E+00	2.38E-06	9.09E-08	2.80E-07	0.00E+00	3.71E-07	5.12E-08	1.75E-07	0.00E+00	2.26E-07
448	587408.2	4154270	5.91E-07	1.3E-06	0.00E+00	1.89E-06	1.20E-06	1.31E-06	0.00E+00	2.51E-06	9.57E-08	2.95E-07	0.00E+00	3.90E-07	5.40E-08	1.85E-07	0.00E+00	2.38E-07
449	587413.6	4154262	6.22E-07	1.36E-06	0.00E+00	1.98E-06	1.26E-06	1.38E-06	0.00E+00	2.64E-06	1.01E-07	3.10E-07	0.00E+00	4.11E-07	5.68E-08	1.94E-07	0.00E+00	2.51E-07
450	587430.1	4154239	7.13E-07	1.56E-06	0.00E+00	2.28E-06	1.45E-06	1.58E-06	0.00E+00	3.03E-06	1.16E-07	3.56E-07	0.00E+00	4.71E-07	6.51E-08	2.23E-07	0.00E+00	2.88E-07
451	587435.6	4154231	7.42E-07	1.63E-06	0.00E+00	2.37E-06	1.51E-06	1.65E-06	0.00E+00	3.15E-06	1.20E-07	3.70E-07	0.00E+00	4.90E-07	6.77E-08	2.32E-07	0.00E+00	2.99E-07
452	587441	4154223	7.68E-07	1.68E-06	0.00E+00	2.45E-06	1.56E-06	1.70E-06	0.00E+00	3.26E-06	1.24E-07	3.83E-07	0.00E+00	5.07E-07	7.01E-08	2.40E-07	0.00E+00	3.10E-07
453	587452	4154207	8.12E-07	1.78E-06	0.00E+00	2.59E-06	1.65E-06	1.80E-06	0.00E+00	3.45E-06	1.31E-07	4.05E-07	0.00E+00	5.36E-07	7.41E-08	2.53E-07	0.00E+00	3.28E-07
454	587457.5	4154199	8.27E-07	1.81E-06	0.00E+00	2.64E-06	1.68E-06	1.84E-06	0.00E+00	3.52E-06	1.34E-07	4.12E-07	0.00E+00	5.46E-07	7.55E-08	2.58E-07	0.00E+00	3.34E-07
455	587463	4154191	8.38E-07	1.84E-06	0.00E+00	2.68E-06	1.70E-06	1.86E-06	0.00E+00	3.56E-06	1.36E-07	4.18E-07	0.00E+00	5.54E-07	7.65E-08	2.62E-07	0.00E+00	3.38E-07
456	587468.4	4154183	8.45E-07	1.85E-06	0.00E+00	2.70E-06	1.72E-06	1.87E-06	0.00E+00	3.59E-06	1.37E-07	4.21E-07	0.00E+00	5.58E-07	7.71E-08	2.64E-07	0.00E+00	3.41E-07
457	587404.6	4154405	4.21E-07	9.24E-07	0.00E+00	1.35E-06	8.57E-07	9.35E-07	0.00E+00	1.79E-06	6.83E-08	2.10E-07	0.00E+00	2.78E-07	3.85E-08	1.32E-07	0.00E+00	1.70E-07
458	587402.7	4154395	4.26E-07	9.34E-07	0.00E+00	1.36E-06	8.66E-07	9.45E-07	0.00E+00	1.81E-06	6.90E-08	2.12E-07	0.00E+00	2.81E-07	3.89E-08	1.33E-07	0.00E+00	1.72E-07
459	587400.8	4154386	4.31E-07	9.44E-07	0.00E+00	1.37E-06	8.76E-07	9.56E-07	0.00E+00	1.83E-06	6.98E-08	2.15E-07	0.00E+00	2.85E-07	3.93E-08	1.34E-07	0.00E+00	1.74E-07
460	587398.9	4154376	4.35E-07	9.54E-07	0.00E+00	1.39E-06	8.85E-07	9.66E-07	0.00E+00	1.85E-06	7.05E-08	2.17E-07	0.00E+00	2.88E-07	3.97E-08	1.36E-07	0.00E+00	1.76E-07
461	587387.6	4154320	4.63E-07	1.01E-06	0.00E+00	1.48E-06	9.41E-07	1.03E-06	0.00E+00	1.97E-06	7.50E-08	2.31E-07	0.00E+00	3.06E-07	4.23E-08	1.44E-07	0.00E+00	1.87E-07
462	587385.7	4154311	4.67E-07	1.02E-06	0.00E+00	1.49E-06	9.50E-07	1.04E-06	0.00E+00	1.99E-06	7.57E-08	2.33E-07	0.00E+00	3.09E-07	4.27E-08	1.46E-07	0.00E+00	1.89E-07
463	587383.8	4154302	4.72E-07	1.03E-06	0.00E+00	1.51E-06	9.58E-07	1.05E-06	0.00E+00	2.00E-06	7.64E-08	2.35E-07	0.00E+00	3.11E-07	4.31E-08	1.47E-07	0.00E+00	1.90E-07
464	587387.3	4154284	5.01E-07	1.1E-06	0.00E+00	1.60E-06	1.02E-06	1.11E-06	0.00E+00	2.13E-06	8.11E-08	2.50E-07	0.00E+00	3.31E-07	4.57E-08	1.56E-07	0.00E+00	2.02E-07
465	587392.8	4154276	5.27E-07	1.15E-06	0.00E+00	1.68E-06	1.07E-06	1.17E-06	0.00E+00	2.24E-06	8.53E-08	2.63E-07	0.00E+00	3.48E-07	4.81E-08	1.64E-07	0.00E+00	2.13E-07
466	587398.2	4154269	5.54E-07	1.21E-06	0.00E+00	1.77E-06	1.13E-06	1.23E-06	0.00E+00	2.35E-06	8.97E-08	2.76E-07	0.00E+00	3.66E-07	5.06E-08	1.73E-07	0.00E+00	2.23E-07
467	587403.6	4154261	5.82E-07	1.28E-06	0.00E+00	1.86E-06	1.18E-06	1.29E-06	0.00E+00	2.47E-06	9.42E-08	2.90E-07	0.00E+00	3.84E-07	5.31E-08	1.82E-07	0.00E+00	2.35E-07
468	587409	4154253	6.1E-07	1.34E-06	0.00E+00	1.95E-06	1.24E-06	1.35E-06	0.00E+00	2.59E-06	9.88E-08	3.04E-07	0.00E+00	4.03E-07	5.57E-08	1.90E-07	0.00E+00	2.46E-07
469	587414.5	4154245	6.38E-07	1.4E-06	0.00E+00	2.04E-06	1.30E-06	1.42E-06	0.00E+00	2.71E-06	1.03E-07	3.18E-07	0.00E+00	4.21E-07	5.83E-08	1.99E-07	0.00E+00	2.57E-07
470	587419.9	4154237	6.66E-07	1.46E-06	0.00E+00	2.12E-06	1.35E-06	1.48E-06	0.00E+00	2.83E-06	1.08E-07	3.32E-07	0.00E+00	4.40E-07	6.08E-08	2.08E-07	0.00E+00	2.69E-07
471	587425.3	4154229	6.92E-07	1.52E-06	0.00E+00	2.21E-06	1.41E-06	1.54E-06	0.00E+00	2.94E-06	1.12E-07	3.45E-07	0.00E+00	4.57E-07	6.32E-08	2.16E-07	0.00E+00	2.79E-07
472	587430.7	4154221	7.17E-07	1.57E-06	0.00E+00	2.29E-06	1.46E-06	1.59E-06	0.00E+00	3.05E-06	1.16E-07	3.57E-07	0.00E+00	4.74E-07	6.55E-08	2.24E-07	0.00E+00	2.89E-07
473	587447	4154198	7.76E-07	1.7E-06	0.00E+00	2.48E-06	1.58E-06	1.72E-06	0.00E+00	3.30E-06	1.26E-07	3.87E-07	0.00E+00	5.13E-07	7.09E-08	2.42E-07	0.00E+00	3.13E-07
474	587452.4	4154190	7.89E-07	1.73E-06	0.00E+00	2.52E-06	1.60E-06	1.75E-06	0.00E+00	3.35E-06	1.28E-07	3.93E-07	0.00E+00	5.21E-07	7.20E-08	2.46E-07	0.00E+00	3.18E-07
475	587457.8	4154182	7.97E-07	1.75E-06	0.00E+00	2.54E-06	1.62E-06	1.77E-06	0.00E+00	3.39E-06	1.29E-07	3.97E-07	0.00E+00	5.27E-07	7.28E-08	2.49E-07	0.00E+00	3.22E-07
476	587390.8	4154383	4.08E-07	8.94E-07	0.00E+00	1.30E-06	8.29E-07	9.05E-07	0.00E+00	1.73E-06	6.61E-08	2.03E-07	0.00E+00	2.69E-07	3.72E-08	1.27E-07	0.00E+00	1.65E-07
477	587375.9	4154309	4.41E-07	9.67E-07	0.00E+00	1.41E-06	8.97E-07	9.79E-07	0.00E+00	1.88E-06	7.15E-08	2.20E-07	0.00E+00	2.92E-07	4.03E-08	1.38E-07	0.00E+00	1.78E-07
478	587374	4154299	4.45E-07	9.76E-07	0.00E+00	1.42E-06	9.05E-07	9.88E-07	0.00E+00	1.89E-06	7.21E-08	2.22E-07	0.00E+00	2.94E-07	4.07E-08	1.39E-07	0.00E+00	1.80E-07
479	587377.5	4154282	4.72E-07	1.03E-06	0.00E+00	1.51E-06	9.59E-07	1.05E-06	0.00E+00	2.01E-06	7.64E-08	2.35E-07	0.00E+00	3.12E-07	4.31E-08	1.47E-07	0.00E+00	1.90E-07
480	587382.9	4154275	4.96E-07	1.09E-06	0.00E+00	1.58E-06	1.01E-06	1.10E-06	0.00E+00	2.11E-06	8.03E-08	2.47E-07	0.00E+00	3.27E-07	4.53E-08	1.55E-07	0.00E+00	2.00E-07
481	587388.2	4154267	5.2E-07	1.14E-06	0.00E+00	1.66E-06	1.06E-06	1.15E-06	0.00E+00	2.21E-06	8.43E-08	2.59E-07	0.00E+00	3.44E-07	4.75E-08	1.62E-07	0.00E+00	2.10E-07
482	587393.6	4154259	5.46E-07	1.2E-06	0.00E+00	1.74E-06	1.11E-06	1.21E-06	0.00E+00	2.32E-06	8.84E-08	2.72E-07	0.00E+00	3.60E-07	4.98E-08	1.70E-07	0.00E+00	2.20E-07
483	587399	4154251	5.72E-07	1.25E-06	0.00E+00	1.82E-06	1.16E-06	1.27E-06	0.00E+00	2.43E-06	9.26E-08	2.85E-07	0.00E+00	3.78E-07	5.22E-08	1.78E-07	0.00E+00	2.31E-07
484	587404.4	4154243	5.97E-07	1.31E-06	0.00E+00	1.91E-06	1.21E-06	1.33E-06	0.00E+00	2.54E-06	9.67E-08	2.98E-07	0.00E+00	3.95E-07	5.45E-08	1.86E-07	0.00E+00	2.41E-07
485	587409.7	4154236	6.23E-07	1.36E-06	0.00E+00	1.99E-06	1.27E-06	1.38E-06	0.00E+00	2.65E-06	1.01E-07	3.10E-07	0.00E+00	4.11E-07	5.69E-08	1.94E-07	0.00E+00	2.51E-07
486	587415.1	4154228	6.47E-07	1.42E-06	0.00E+00	2.07E-06	1.32E-06	1.44E-06	0.00E+00	2.75E-06	1.05E-07	3.23E-07	0.00E+00	4.28E-07	5.91E-08	2.02E-07	0.00E+00	2.61E-07
487	587420.5	4154220	6.71E-07	1.47E-06	0.00E+00	2.14E-06	1.36E-06	1.49E-06	0.00E+00	2.85E-06	1.09E-07	3.34E-07	0.00E+00	4.43E-07	6.12E-08	2.09E-07	0.00E+00	2.71E-07
488	587436.6	4154197	7.29E-07	1.6E-06	0.00E+00	2.33E-06	1.48E-06	1.62E-06	0.00E+00	3.10E-06	1.18E-07	3.63E-07	0.00E+00	4.81E-07	6.65E-08	2.28E-07	0.00E+00	2.94E-07
489	587441.9	4154189	7.43E-07	1.63E-06	0.00E+00	2.37E-06	1.51E-06	1.65E-06	0.00E+00	3.16E-06	1.20E-07	3.70E-07	0.00E+00	4.91E-07	6.78E-08	2.32E-07	0.00E+00	3.00E-07
490	587447.3	4154181	7.53E-07	1.65E-06	0.00E+00	2.40E-06	1.53E-06	1.67E-06	0.00E+00	3.20E-06	1.22E-07	3.75E-07	0.00E+00	4.97E-07	6.87E-08	2.35E-07	0.00E+00	3.04E-07
491	587364.3	4154298	4.21E-07	9.23E-07	0.00E+00	1.34E-06	8.56E-07	9.35E-07	0.00E+00	1.79E-06	6.82E-08	2.10E-07	0.00E+00	2.78E-07	3.85E-08	1.32E-07	0.00E+00	1.70E-07
492	587367.9	4154280	4.47E-07	9.8E-07	0.00E+00	1.43E-06	9.09E-07	9.92E-07	0.00E+00	1.90E-06	7.24E-08	2.23E-07	0.00E+00	2.95E-07	4.08E-08	1.40E-07	0.00E+00	1.80E-07
493	587373.5	4154272	4.7E-07	1.03E-06	0.00E+00	1.50E-06	9.55E-07	1.04E-06	0.00E+00	2.00E-06	7.61E-08	2.34E-07	0.00E+00	3.10E-07	4.29E-08	1.47E-07	0.00E+00	1.90E-07
494	587379.1	4154264	4.94E-07	1.08E-06	0.00E+00	1.58E-06	1.00E-06	1.10E-06	0.00E+00	2.10E-06	8.00E-08	2.46E-07	0.00E+00	3.26E-07	4.51E-08	1.54E-07	0.00E+00	1.99E-07
495	587384.7	4154256	5.18E-07	1.14E-06	0.00E+00	1.65E-06	1.05E-06	1.15E-06	0.00E+00	2.20E-06	8.39E-08	2.58E-07	0.00E+00	3.42E-07	4.73E-08	1.62E-07	0.00E+00	2.09E-07
496	587390.4	4154248	5.43E-07	1.19E-06	0.00E+00	1.73E-06	1.10E-06	1.20E-06	0.00E+00	2.31E-06	8.80E-08	2.71E-07	0.00E+00	3.59E-07	4.96E-08	1.70E-07	0.00E+00	2.19E-07
497	587396	4154239	5.68E-07	1.24E-06	0.00E+00	1.81E-06	1.15E-06	1.26E-06	0.00E+00	2.41E-06	9.20E-08	2.83E-07	0.00E+00	3.75E-07	5.19E-08	1.77E-07	0.00E+00	2.29E-07
498	587401.6	4154231	5.93E-07	1.3E-06	0.00E+00	1.89E-06	1.20E-06	1.31E-06	0.00E+00	2.52E-06	9.60E-08	2.95E-07	0.00E+00	3.91E-07	5.41E-08	1.85E-07	0.00E+00	2.39E-07
499	587407.2	4154223	6.16E-07	1.35E-06	0.00E+00	1.97E-06	1.25E-06	1.37E-06	0.00E+00	2.62E-06	9.98E-08	3.07E-07	0.00E+00	4.07E-07	5.63E-08	1.92E-07	0.00E+00	2.49E-07
500	587412.8	4154215	6.39E-07	1.4E-06	0.00E+00	2.04E-06	1.30E-06	1.42E-06	0.00E+00	2.72E-06	1.03E-07	3.18E-07	0.00E+00	4.22E-07	5.83E-08	1.99E-07	0.00E+00	2.58E-07
501	587424	4154199	6.78E-07	1.49E-06	0.00E+00	2.16E-06	1.38E-06	1.50E-06	0.00E+00	2.88E-06	1.10E-07	3.38E-07	0.00E+00	4.48E-07	6.19E-08	2.12E-07	0.00E+00	2.74E-07
502	587429.6	4154191	6.94E-07	1.52E-06	0.00E+00	2.22E-06	1.41E-06	1.54E-06	0.00E+00	2.95E-06	1.12E-07	3.46E-07	0.00E+00	4.58E-07	6.34E-08	2.17E-07	0.00E+00	2.80E-07
503	587435.2	4154183	7.07E-07	1.55E-06	0.00E+00	2.26E-06	1.44E-06	1.57E-06	0.00E+00	3.01E-06	1.15E-07	3.53E-07	0.00E+00	4.67E-07	6.46E-08	2.21E-07	0.00E+00	2.85E-07
504	587356.4	4154305	3.96E-07	8.67E-07	0.00E+00	1.26E-06	8.04E-07	8.78E-07	0.00E+00	1.68E-06	6.41E-08	1.97E-07	0.00E+00	2.61E-07	3.61E-08	1.24E-07	0.00E+00	1.60E-07
505	587354.5	4154296	3.99E-07	8.76E-07	0.00E+00	1.28E-06	8.12E-07	8.86E-07	0.00E+00	1.70E-06	6.47E-08	1.99E-07	0.00E+00	2.64E-07	3.65E-08	1.25E-07	0.00E+00	1.61E-07
506	587358.1	4154278	4.23E-07	9.27E-07	0.00E+00	1.35E-06	8.60E-07	9.38E-07	0.00E+00	1.80E-06	6.85E-08	2.11E-07	0.00E+00	2.79E-07	3.86E-08	1.32E-07	0.00E+00	1.71E-07
507	587363.6	4154270	4.44E-07	9.73E-07	0.00E+00	1.42E-06	9.02E-07	9.85E-07	0.00E+00	1.89E-06	7.19E-08	2.21E-07	0.00E+00	2.93E-07	4.05E-08	1.39E-07	0.00E+00	1.79E-07
508	587369.2	4154262	4.66E-07	1.02E-06	0.00E+00	1.49E-06	9.47E-07	1.03E-06	0.00E+00	1.98E-06	7.54E-08	2.32E-07	0.00E+00	3.08E-07	4.25E-08	1.45E-07	0.00E+00	1.88E-07
509	587374.7	4154254	4.88E-07	1.07E-06	0.00E+00	1.56E-06	9.92E-07	1.08E-06	0.00E+00	2.07E-06	7.90E-08	2.43E-07	0.00E+00	3.22E-07	4.46E-08	1.52E-07	0.00E+00	1.97E-07
510	587380.3	4154246	5.11E-07	1.12E-06	0.00E+00	1.63E-06	1.04E-06	1.13E-06	0.00E+00	2.17E-06	8.27E-08	2.55E-07	0.00E+00	3.37E-07	4.66E-08	1.59E-07	0.00E+00	2.06E-07
511	587385.8	4154238	5.34E-07	1.17E-06	0.00E+00	1.70E-06	1.08E-06	1.18E-06	0.00E+00	2.27E-06	8.64E-08	2.66E-07	0.00E+00	3.53E-07	4.87E-08	1.67E-07	0.00E+00	2.15E-07
512	587391.4	4154230	5.57E-07	1.22E-06	0.00E+00	1.78E-06	1.13E-06	1.23E-06	0.00E+00	2.37E-06	9.01E-08	2.77E-07	0.00E+00	3.68E-07	5.08E-08	1.74E-07	0.00E+00	2.25E-07
513	587396.9	4154222	5.79E-07	1.27E-06	0.00E+00	1.85E-06	1.18E-06	1.28E-06	0.00E+00	2.46E-06	9.37E-08	2.89E-07	0.00E+00	3.82E-07	5.28E-08	1.81E-07	0.00E+00	2.33E-07
514	587413.5	4154198	6.37E-07	1.4E-06	0.00E+00	2.03E-06	1.30E-06	1.41E-06	0.00E+00	2.71E-06	1.03E-07	3.18E-07	0.00E+00	4.21E-07	5.82E-08	1.99E-07	0.00E+00	2.57E-07
515	587419.1	4154190	6.53E-07	1.43E-06	0.00E+00	2.08E-06	1.33E-06	1.45E-06	0.00E+00	2.78E-06	1.06E-07	3.26E-07	0.00E+00	4.31E-07	5.96E-08	2.04E-07	0.00E+00	2.64E-07
516	587424.6	4154182	6.66E-07	1.46E-06	0.00E+00	2.13E-06	1.35E-06	1.48E-06	0.00E+00	2.83E-06	1.08E-07	3.32E-07	0.00E+00	4.40E-07	6.08E-08	2.08E-07	0.00E+00	2.69E-07
517	587430.2	4154174	6.77E-07	1.48E-06	0.00E+00	2.16E-06	1.38E-06	1.50E-06	0.00E+00	2.88E-06	1.10E-07	3.38E-07	0.00E+00	4.47E-07	6.18E-08	2.11E-07	0.00E+00	2.73E-07
518	587348.5	4154313	3.72E-07	8.16E-07	0.00E+00	1.19E-06	7.57E-07	8.26E-07	0.00E+00	1.58E-06	6.03E-08	1.86E-07	0.00E+00	2.46E-07	3.40E-08	1.16E-07	0.00E+00	1.50E-07
519	587346.6	4154303	3.76E-07	8.24E-07	0.00E+00	1.20E-06	7.64E-07	8.34E-07	0.00E+00	1.60E-06	6.09E-08	1.87E-07	0.00E+00	2.48E-07	3.43E-08	1.17E-07	0.00E+00	1.52E-07
520	587344.7	4154294	3.79E-07	8.32E-07	0.00E+00	1.21E-06	7.71E-07	8.42E-07	0.00E+00	1.61E-06	6.14E-08	1.89E-07	0.00E+00	2.51E-07	3.46E-08	1.18E-07	0.00E+00	1.53E-07
521	587348.2	4154276	4.01E-07	8.79E-07	0.00E+00	1.28E-06	8.15E-07	8.90E-07	0.00E+00	1.70E-06	6.50E-08	2.00E-07	0.00E+00	2.65E-07	3.66E-08	1.25E-07	0.00E+00	1.62E-07
522	587353.7	4154268	4.2E-07	9.21E-07	0.00E+00	1.34E-06	8.54E-07	9.32E-07	0.00E+00	1.79E-06	6.81E-08	2.10E-07	0.00E+00	2.78E-07	3.84E-08	1.31E-07	0.00E+00	1.70E-07
523	587359.2	4154260	4.4E-07	9.65E-07	0.00E+00	1.40E-06	8.95E-07	9.76E-07	0.00E+00	1.87E-06	7.13E-08	2.19E-07	0.00E+00	2.91E-07	4.02E-08	1.37E-07	0.00E+00	1.78E-07
524	587364.7	4154252	4.61E-07	1.01E-06	0.00E+00	1.47E-06	9.36E-07	1.02E-06	0.00E+00	1.96E-06	7.46E-08	2.30E-07	0.00E+00	3.04E-07	4.21E-08	1.44E-07	0.00E+00	1.86E-07
525	587370.2	4154244	4.82E-07	1.06E-06	0.00E+00	1.54E-06	9.79E-07	1.07E-06	0.00E+00	2.05E-06	7.80E-08	2.40E-07	0.00E+00	3.18E-07	4.40E-08	1.50E-07	0.00E+00	1.94E-07
526	587375.7	4154236	5.03E-07	1.1E-06	0.00E+00	1.60E-06	1.02E-06	1.12E-06	0.00E+00	2.14E-06	8.14E-08	2.51E-07	0.00E+00	3.32E-07	4.59E-08	1.57E-07	0.00E+00	2.03E-07
527	587381.2	4154228	5.24E-07	1.15E-06	0.00E+00	1.67E-06	1.06E-06	1.16E-06	0.00E+00	2.23E-06	8.48E-08	2.61E-07	0.00E+00	3.46E-07	4.78E-08	1.64E-07	0.00E+00	2.11E-07
528	587386.7	4154220	5.44E-07	1.19E-06	0.00E+00	1.74E-06	1.11E-06	1.21E-06	0.00E+00	2.31E-06	8.82E-08	2.71E-07	0.00E+00	3.60E-07	4.97E-08	1.70E-07	0.00E+00	2.20E-07
529	587403.2	4154197	6E-07	1.32E-06	0.00E+00	1.92E-06	1.22E-06	1.33E-06	0.00E+00	2.55E-06	9.72E-08	2.99E-07	0.00E+00	3.96E-07	5.48E-08	1.87E-07	0.00E+00	2.42E-07
530	587408.7	4154189	6.16E-07	1.35E-06	0.00E+00	1.96E-06	1.25E-06	1.37E-06	0.00E+00	2.62E-06	9.97E-08	3.07E-07	0.00E+00	4.07E-07	5.62E-08	1.92E-07	0.00E+00	2.48E-07
531	587414.1	4154181	6.29E-07	1.38E-06	0.00E+00	2.01E-06	1.28E-06	1.40E-06	0.00E+00	2.67E-06	1.02E-07	3.14E-07	0.00E+00	4.15E-07	5.74E-08	1.96E-07	0.00E+00	2.54E-07
532	587419.6	4154173	6.4E-07	1.4E-06	0.00E+00	2.04E-06	1.30E-06	1.42E-06	0.00E+00	2.72E-06	1.04E-07	3.19E-07	0.00E+00	4.23E-07	5.84E-08	2.00E-07	0.00E+00	2.58E-07
533	587441.6	4154141	6.57E-07	1.44E-06	0.00E+00	2.10E-06	1.33E-06	1.46E-06	0.00E+00	2.79E-06	1.06E-07	3.27E-07	0.00E+00	4.34E-07	5.99E-08	2.05E-07	0.00E+00	2.65E-07
534	587447.1	4154133	6.52E-07	1.43E-06	0.00E+00	2.08E-06	1.33E-06	1.45E-06	0.00E+00	2.77E-06	1.06E-07	3.25E-07	0.00E+00	4.31E-07	5.95E-08	2.04E-07	0.00E+00	2.63E-07
535	587452.6	4154125	6.45E-07	1.41E-06	0.00E+00	2.06E-06	1.31E-06	1.43E-06	0.00E+00	2.74E-06	1.04E-07	3.22E-07	0.00E+00	4.26E-07	5.89E-08	2.01E-07	0.00E+00	2.60E-07
536	587338.6	4154310	3.54E-07	7.77E-07	0.00E+00	1.13E-06	7.20E-07	7.86E-07	0.00E+00	1.51E-06	5.74E-08	1.77E-07	0.00E+00	2.34E-07	3.23E-08	1.11E-07	0.00E+00	1.43E-07
537	587336.7	4154301	3.58E-07	7.84E-07	0.00E+00	1.14E-06	7.27E-07	7.93E-07	0.00E+00	1.52E-06	5.79E-08	1.78E-07	0.00E+00	2.36E-07	3.27E-08	1.12E-07	0.00E+00	1.44E-07
538	587334.8	4154292	3.61E-07	7.91E-07	0.00E+00	1.15E-06	7.34E-07	8.01E-07	0.00E+00	1.53E-06	5.85E-08	1.80E-07	0.00E+00	2.38E-07	3.30E-08	1.13E-07	0.00E+00	1.46E-07
539	587338.4	4154274	3.81E-07	8.35E-07	0.00E+00	1.22E-06	7.74E-07	8.45E-07	0.00E+00	1.62E-06	6.17E-08	1.90E-07	0.00E+00	2.52E-07	3.48E-08	1.19E-07	0.00E+00	1.54E-07
540	587343.8	4154266	3.99E-07	8.73E-07	0.00E+00	1.27E-06	8.10E-07	8.84E-07	0.00E+00	1.69E-06	6.45E-08	1.99E-07	0.00E+00	2.63E-07	3.64E-08	1.24E-07	0.00E+00	1.61E-07
541	587349.3	4154258	4.17E-07	9.14E-07	0.00E+00	1.33E-06	8.47E-07	9.25E-07	0.00E+00	1.77E-06	6.75E-08	2.08E-07	0.00E+00	2.75E-07	3.81E-08	1.30E-07	0.00E+00	1.68E-07
542	587354.7	4154251	4.36E-07	9.55E-07	0.00E+00	1.39E-06	8.86E-07	9.67E-07	0.00E+00	1.85E-06	7.06E-08	2.17E-07	0.00E+00	2.88E-07	3.98E-08	1.36E-07	0.00E+00	1.76E-07
543	587360.2	4154243	4.55E-07	9.97E-07	0.00E+00	1.45E-06	9.25E-07	1.01E-06	0.00E+00	1.93E-06	7.37E-08	2.27E-07	0.00E+00	3.01E-07	4.15E-08	1.42E-07	0.00E+00	1.84E-07
544	587365.6	4154235	4.74E-07	1.04E-06	0.00E+00	1.51E-06	9.64E-07	1.05E-06	0.00E+00	2.02E-06	7.68E-08	2.37E-07	0.00E+00	3.13E-07	4.33E-08	1.48E-07	0.00E+00	1.91E-07
545	587371.1	4154227	4.94E-07	1.08E-06	0.00E+00	1.58E-06	1.00E-06	1.10E-06	0.00E+00	2.10E-06	8.00E-08	2.46E-07	0.00E+00	3.26E-07	4.51E-08	1.54E-07	0.00E+00	1.99E-07
546	587376.5	4154219	5.13E-07	1.12E-06	0.00E+00	1.64E-06	1.04E-06	1.14E-06	0.00E+00	2.18E-06	8.31E-08	2.56E-07	0.00E+00	3.39E-07	4.69E-08	1.60E-07	0.00E+00	2.07E-07
547	587392.8	4154195	5.66E-07	1.24E-06	0.00E+00	1.81E-06	1.15E-06	1.26E-06	0.00E+00	2.41E-06	9.17E-08	2.82E-07	0.00E+00	3.74E-07	5.17E-08	1.77E-07	0.00E+00	2.28E-07

548	587398.3	4154187	5.81E-07	1.27E-06	0.00E+00	1.85E-06	1.18E-06	1.29E-06	0.00E+00	2.47E-06	9.41E-08	2.90E-07	0.00E+00	3.84E-07	5.31E-08	1.81E-07	0.00E+00	2.34E-07
549	587403.7	4154179	5.94E-07	1.3E-06	0.00E+00	1.90E-06	1.21E-06	1.32E-06	0.00E+00	2.53E-06	9.63E-08	2.96E-07	0.00E+00	3.93E-07	5.43E-08	1.86E-07	0.00E+00	2.40E-07
550	587409.2	4154172	6.06E-07	1.33E-06	0.00E+00	1.93E-06	1.23E-06	1.34E-06	0.00E+00	2.58E-06	9.81E-08	3.02E-07	0.00E+00	4.00E-07	5.53E-08	1.89E-07	0.00E+00	2.44E-07
551	587431	4154140	6.28E-07	1.38E-06	0.00E+00	2.00E-06	1.28E-06	1.39E-06	0.00E+00	2.67E-06	1.02E-07	3.13E-07	0.00E+00	4.15E-07	5.73E-08	1.96E-07	0.00E+00	2.53E-07
552	587436.4	4154132	6.26E-07	1.37E-06	0.00E+00	2.00E-06	1.27E-06	1.39E-06	0.00E+00	2.66E-06	1.01E-07	3.12E-07	0.00E+00	4.13E-07	5.71E-08	1.95E-07	0.00E+00	2.52E-07
553	587441.8	4154124	6.21E-07	1.36E-06	0.00E+00	1.98E-06	1.26E-06	1.38E-06	0.00E+00	2.64E-06	1.01E-07	3.10E-07	0.00E+00	4.10E-07	5.67E-08	1.94E-07	0.00E+00	2.50E-07
554	587447.3	4154116	6.14E-07	1.35E-06	0.00E+00	1.96E-06	1.25E-06	1.36E-06	0.00E+00	2.61E-06	9.94E-08	3.06E-07	0.00E+00	4.05E-07	5.60E-08	1.92E-07	0.00E+00	2.48E-07
555	587331	4154319	3.34E-07	7.32E-07	0.00E+00	1.07E-06	6.79E-07	7.41E-07	0.00E+00	1.42E-06	5.41E-08	1.66E-07	0.00E+00	2.21E-07	3.05E-08	1.04E-07	0.00E+00	1.35E-07
556	587329	4154309	3.37E-07	7.39E-07	0.00E+00	1.08E-06	6.85E-07	7.48E-07	0.00E+00	1.43E-06	5.46E-08	1.68E-07	0.00E+00	2.23E-07	3.08E-08	1.05E-07	0.00E+00	1.36E-07
557	587327.1	4154300	3.4E-07	7.46E-07	0.00E+00	1.09E-06	6.92E-07	7.55E-07	0.00E+00	1.45E-06	5.51E-08	1.70E-07	0.00E+00	2.25E-07	3.11E-08	1.06E-07	0.00E+00	1.37E-07
558	587325.1	4154290	3.44E-07	7.53E-07	0.00E+00	1.10E-06	6.99E-07	7.62E-07	0.00E+00	1.46E-06	5.57E-08	1.71E-07	0.00E+00	2.27E-07	3.14E-08	1.07E-07	0.00E+00	1.39E-07
559	587328.8	4154272	3.63E-07	7.96E-07	0.00E+00	1.16E-06	7.38E-07	8.05E-07	0.00E+00	1.54E-06	5.88E-08	1.81E-07	0.00E+00	2.40E-07	3.31E-08	1.13E-07	0.00E+00	1.46E-07
560	587334.4	4154264	3.8E-07	8.33E-07	0.00E+00	1.21E-06	7.73E-07	8.43E-07	0.00E+00	1.62E-06	6.16E-08	1.90E-07	0.00E+00	2.51E-07	3.47E-08	1.19E-07	0.00E+00	1.53E-07
561	587340.1	4154256	3.98E-07	8.72E-07	0.00E+00	1.27E-06	8.09E-07	8.82E-07	0.00E+00	1.69E-06	6.44E-08	1.98E-07	0.00E+00	2.63E-07	3.63E-08	1.24E-07	0.00E+00	1.61E-07
562	587345.7	4154247	4.16E-07	9.12E-07	0.00E+00	1.33E-06	8.46E-07	9.23E-07	0.00E+00	1.77E-06	6.74E-08	2.07E-07	0.00E+00	2.75E-07	3.80E-08	1.30E-07	0.00E+00	1.68E-07
563	587351.4	4154239	4.35E-07	9.53E-07	0.00E+00	1.39E-06	8.84E-07	9.64E-07	0.00E+00	1.85E-06	7.04E-08	2.17E-07	0.00E+00	2.87E-07	3.97E-08	1.36E-07	0.00E+00	1.75E-07
564	587357	4154231	4.54E-07	9.94E-07	0.00E+00	1.45E-06	9.22E-07	1.01E-06	0.00E+00	1.93E-06	7.35E-08	2.26E-07	0.00E+00	3.00E-07	4.14E-08	1.42E-07	0.00E+00	1.83E-07
565	587390.9	4154182	5.56E-07	1.22E-06	0.00E+00	1.78E-06	1.13E-06	1.23E-06	0.00E+00	2.37E-06	9.01E-08	2.77E-07	0.00E+00	3.68E-07	5.08E-08	1.74E-07	0.00E+00	2.25E-07
566	587396.6	4154174	5.69E-07	1.25E-06	0.00E+00	1.82E-06	1.16E-06	1.26E-06	0.00E+00	2.42E-06	9.22E-08	2.84E-07	0.00E+00	3.76E-07	5.20E-08	1.78E-07	0.00E+00	2.30E-07
567	587419.1	4154141	5.99E-07	1.31E-06	0.00E+00	1.91E-06	1.22E-06	1.33E-06	0.00E+00	2.55E-06	9.70E-08	2.99E-07	0.00E+00	3.96E-07	5.47E-08	1.87E-07	0.00E+00	2.42E-07
568	587424.8	4154133	6E-07	1.31E-06	0.00E+00	1.91E-06	1.22E-06	1.33E-06	0.00E+00	2.55E-06	9.72E-08	2.99E-07	0.00E+00	3.96E-07	5.48E-08	1.87E-07	0.00E+00	2.42E-07
569	587430.4	4154125	5.97E-07	1.31E-06	0.00E+00	1.91E-06	1.21E-06	1.32E-06	0.00E+00	2.54E-06	9.67E-08	2.98E-07	0.00E+00	3.94E-07	5.45E-08	1.86E-07	0.00E+00	2.41E-07
570	587436.1	4154116	5.92E-07	1.3E-06	0.00E+00	1.89E-06	1.20E-06	1.31E-06	0.00E+00	2.52E-06	9.58E-08	2.95E-07	0.00E+00	3.91E-07	5.40E-08	1.85E-07	0.00E+00	2.39E-07
571	587441.7	4154108	5.85E-07	1.28E-06	0.00E+00	1.87E-06	1.19E-06	1.30E-06	0.00E+00	2.49E-06	9.48E-08	2.92E-07	0.00E+00	3.87E-07	5.35E-08	1.83E-07	0.00E+00	2.36E-07
572	587323.1	4154326	3.16E-07	6.92E-07	0.00E+00	1.01E-06	6.41E-07	7.00E-07	0.00E+00	1.34E-06	5.11E-08	1.57E-07	0.00E+00	2.08E-07	2.88E-08	9.85E-08	0.00E+00	1.27E-07
573	587321.1	4154317	3.19E-07	6.98E-07	0.00E+00	1.02E-06	6.48E-07	7.07E-07	0.00E+00	1.35E-06	5.16E-08	1.59E-07	0.00E+00	2.10E-07	2.91E-08	9.95E-08	0.00E+00	1.29E-07
574	587319.2	4154307	3.22E-07	7.05E-07	0.00E+00	1.03E-06	6.54E-07	7.14E-07	0.00E+00	1.37E-06	5.21E-08	1.60E-07	0.00E+00	2.13E-07	2.94E-08	1.00E-07	0.00E+00	1.30E-07
575	587317.2	4154297	3.25E-07	7.12E-07	0.00E+00	1.04E-06	6.60E-07	7.21E-07	0.00E+00	1.38E-06	5.26E-08	1.62E-07	0.00E+00	2.15E-07	2.97E-08	1.01E-07	0.00E+00	1.31E-07
576	587315.3	4154288	3.28E-07	7.19E-07	0.00E+00	1.05E-06	6.66E-07	7.27E-07	0.00E+00	1.39E-06	5.31E-08	1.63E-07	0.00E+00	2.17E-07	2.99E-08	1.02E-07	0.00E+00	1.32E-07
577	587318.9	4154270	3.46E-07	7.58E-07	0.00E+00	1.10E-06	7.03E-07	7.67E-07	0.00E+00	1.47E-06	5.60E-08	1.72E-07	0.00E+00	2.28E-07	3.16E-08	1.08E-07	0.00E+00	1.40E-07
578	587324.5	4154262	3.62E-07	7.92E-07	0.00E+00	1.15E-06	7.35E-07	8.02E-07	0.00E+00	1.54E-06	5.86E-08	1.80E-07	0.00E+00	2.39E-07	3.30E-08	1.13E-07	0.00E+00	1.46E-07
579	587330.1	4154254	3.78E-07	8.28E-07	0.00E+00	1.21E-06	7.68E-07	8.38E-07	0.00E+00	1.61E-06	6.12E-08	1.88E-07	0.00E+00	2.50E-07	3.45E-08	1.18E-07	0.00E+00	1.52E-07
580	587335.7	4154246	3.95E-07	8.65E-07	0.00E+00	1.26E-06	8.02E-07	8.76E-07	0.00E+00	1.68E-06	6.39E-08	1.97E-07	0.00E+00	2.61E-07	3.60E-08	1.23E-07	0.00E+00	1.59E-07
581	587408.4	4154140	5.71E-07	1.25E-06	0.00E+00	1.82E-06	1.16E-06	1.27E-06	0.00E+00	2.43E-06	9.25E-08	2.85E-07	0.00E+00	3.77E-07	5.22E-08	1.78E-07	0.00E+00	2.31E-07
582	587414	4154132	5.74E-07	1.26E-06	0.00E+00	1.83E-06	1.17E-06	1.27E-06	0.00E+00	2.44E-06	9.29E-08	2.86E-07	0.00E+00	3.79E-07	5.24E-08	1.79E-07	0.00E+00	2.32E-07
583	587419.6	4154124	5.73E-07	1.26E-06	0.00E+00	1.83E-06	1.16E-06	1.27E-06	0.00E+00	2.44E-06	9.28E-08	2.86E-07	0.00E+00	3.78E-07	5.23E-08	1.79E-07	0.00E+00	2.31E-07
584	587425.2	4154116	5.69E-07	1.25E-06	0.00E+00	1.82E-06	1.16E-06	1.26E-06	0.00E+00	2.42E-06	9.22E-08	2.84E-07	0.00E+00	3.76E-07	5.20E-08	1.78E-07	0.00E+00	2.30E-07
585	587430.8	4154108	5.65E-07	1.24E-06	0.00E+00	1.80E-06	1.15E-06	1.25E-06	0.00E+00	2.40E-06	9.15E-08	2.82E-07	0.00E+00	3.73E-07	5.16E-08	1.76E-07	0.00E+00	2.28E-07
586	587436.4	4154100	5.58E-07	1.22E-06	0.00E+00	1.78E-06	1.13E-06	1.24E-06	0.00E+00	2.37E-06	9.04E-08	2.78E-07	0.00E+00	3.69E-07	5.10E-08	1.74E-07	0.00E+00	2.25E-07
587	587313.2	4154324	3.02E-07	6.61E-07	0.00E+00	9.63E-07	6.13E-07	6.69E-07	0.00E+00	1.28E-06	4.88E-08	1.50E-07	0.00E+00	1.99E-07	2.75E-08	9.42E-08	0.00E+00	1.22E-07
588	587311.3	4154314	3.05E-07	6.67E-07	0.00E+00	9.72E-07	6.19E-07	6.76E-07	0.00E+00	1.29E-06	4.93E-08	1.52E-07	0.00E+00	2.01E-07	2.78E-08	9.51E-08	0.00E+00	1.23E-07
589	587309.4	4154305	3.07E-07	6.74E-07	0.00E+00	9.81E-07	6.25E-07	6.82E-07	0.00E+00	1.31E-06	4.98E-08	1.53E-07	0.00E+00	2.03E-07	2.81E-08	9.60E-08	0.00E+00	1.24E-07
590	587307.4	4154295	3.1E-07	6.8E-07	0.00E+00	9.91E-07	6.31E-07	6.89E-07	0.00E+00	1.32E-06	5.03E-08	1.55E-07	0.00E+00	2.05E-07	2.83E-08	9.69E-08	0.00E+00	1.25E-07
591	587305.5	4154286	3.13E-07	6.86E-07	0.00E+00	1.00E-06	6.37E-07	6.95E-07	0.00E+00	1.33E-06	5.07E-08	1.56E-07	0.00E+00	2.07E-07	2.86E-08	9.78E-08	0.00E+00	1.26E-07
592	587309.1	4154268	3.3E-07	7.23E-07	0.00E+00	1.05E-06	6.71E-07	7.32E-07	0.00E+00	1.40E-06	5.34E-08	1.64E-07	0.00E+00	2.18E-07	3.01E-08	1.03E-07	0.00E+00	1.33E-07
593	587314.6	4154260	3.44E-07	7.55E-07	0.00E+00	1.10E-06	7.00E-07	7.64E-07	0.00E+00	1.46E-06	5.58E-08	1.72E-07	0.00E+00	2.27E-07	3.14E-08	1.08E-07	0.00E+00	1.39E-07
594	587347.9	4154212	4.4E-07	9.63E-07	0.00E+00	1.40E-06	8.93E-07	9.75E-07	0.00E+00	1.87E-06	7.12E-08	2.19E-07	0.00E+00	2.90E-07	4.01E-08	1.37E-07	0.00E+00	1.77E-07
595	587353.5	4154204	4.55E-07	9.98E-07	0.00E+00	1.45E-06	9.26E-07	1.01E-06	0.00E+00	1.94E-06	7.38E-08	2.27E-07	0.00E+00	3.01E-07	4.16E-08	1.42E-07	0.00E+00	1.84E-07
596	587359	4154196	4.71E-07	1.03E-06	0.00E+00	1.50E-06	9.57E-07	1.04E-06	0.00E+00	2.00E-06	7.62E-08	2.35E-07	0.00E+00	3.11E-07	4.30E-08	1.47E-07	0.00E+00	1.90E-07
597	587364.6	4154188	4.85E-07	1.06E-06	0.00E+00	1.55E-06	9.87E-07	1.08E-06	0.00E+00	2.06E-06	7.86E-08	2.42E-07	0.00E+00	3.21E-07	4.43E-08	1.52E-07	0.00E+00	1.96E-07
598	587370.1	4154180	4.99E-07	1.09E-06	0.00E+00	1.59E-06	1.01E-06	1.11E-06	0.00E+00	2.12E-06	8.08E-08	2.49E-07	0.00E+00	3.30E-07	4.56E-08	1.56E-07	0.00E+00	2.01E-07
599	587397.8	4154139	5.45E-07	1.19E-06	0.00E+00	1.74E-06	1.11E-06	1.21E-06	0.00E+00	2.32E-06	8.82E-08	2.72E-07	0.00E+00	3.60E-07	4.97E-08	1.70E-07	0.00E+00	2.20E-07
600	587403.4	4154131	5.49E-07	1.2E-06	0.00E+00	1.75E-06	1.12E-06	1.22E-06	0.00E+00	2.33E-06	8.88E-08	2.74E-07	0.00E+00	3.62E-07	5.01E-08	1.71E-07	0.00E+00	2.21E-07
601	587408.9	4154123	5.49E-07	1.2E-06	0.00E+00	1.75E-06	1.12E-06	1.22E-06	0.00E+00	2.34E-06	8.90E-08	2.74E-07	0.00E+00	3.63E-07	5.02E-08	1.71E-07	0.00E+00	2.22E-07
602	587414.5	4154115	5.48E-07	1.2E-06	0.00E+00	1.75E-06	1.11E-06	1.21E-06	0.00E+00	2.33E-06	8.87E-08	2.73E-07	0.00E+00	3.62E-07	5.00E-08	1.71E-07	0.00E+00	2.21E-07
603	587420	4154107	5.44E-07	1.19E-06	0.00E+00	1.74E-06	1.11E-06	1.21E-06	0.00E+00	2.31E-06	8.81E-08	2.71E-07	0.00E+00	3.59E-07	4.97E-08	1.70E-07	0.00E+00	2.20E-07
604	587425.6	4154099	5.39E-07	1.18E-06	0.00E+00	1.72E-06	1.10E-06	1.20E-06	0.00E+00	2.29E-06	8.73E-08	2.69E-07	0.00E+00	3.56E-07	4.92E-08	1.68E-07	0.00E+00	2.18E-07
605	587431.1	4154091	5.33E-07	1.17E-06	0.00E+00	1.70E-06	1.08E-06	1.18E-06	0.00E+00	2.26E-06	8.63E-08	2.66E-07	0.00E+00	3.52E-07	4.86E-08	1.66E-07	0.00E+00	2.15E-07
606	587305.3	4154331	2.86E-07	6.27E-07	0.00E+00	9.13E-07	5.81E-07	6.34E-07	0.00E+00	1.22E-06	4.63E-08	1.43E-07	0.00E+00	1.89E-07	2.61E-08	8.93E-08	0.00E+00	1.15E-07
607	587303.3	4154322	2.89E-07	6.33E-07	0.00E+00	9.21E-07	5.87E-07	6.40E-07	0.00E+00	1.23E-06	4.67E-08	1.44E-07	0.00E+00	1.91E-07	2.64E-08	9.01E-08	0.00E+00	1.16E-07
608	587301.4	4154312	2.91E-07	6.39E-07	0.00E+00	9.30E-07	5.92E-07	6.46E-07	0.00E+00	1.24E-06	4.72E-08	1.45E-07	0.00E+00	1.92E-07	2.66E-08	9.10E-08	0.00E+00	1.18E-07
609	587299.5	4154303	2.94E-07	6.45E-07	0.00E+00	9.39E-07	5.98E-07	6.53E-07	0.00E+00	1.25E-06	4.76E-08	1.47E-07	0.00E+00	1.94E-07	2.69E-08	9.18E-08	0.00E+00	1.19E-07
610	587297.6	4154293	2.97E-07	6.51E-07	0.00E+00	9.48E-07	6.03E-07	6.59E-07	0.00E+00	1.26E-06	4.81E-08	1.48E-07	0.00E+00	1.96E-07	2.71E-08	9.27E-08	0.00E+00	1.20E-07
611	587295.7	4154284	3E-07	6.57E-07	0.00E+00	9.56E-07	6.09E-07	6.65E-07	0.00E+00	1.27E-06	4.85E-08	1.49E-07	0.00E+00	1.98E-07	2.74E-08	9.35E-08	0.00E+00	1.21E-07
612	587321.3	4154234	3.72E-07	8.15E-07	0.00E+00	1.19E-06	7.56E-07	8.25E-07	0.00E+00	1.58E-06	6.02E-08	1.85E-07	0.00E+00	2.46E-07	3.39E-08	1.16E-07	0.00E+00	1.50E-07
613	587337.8	4154210	4.17E-07	9.14E-07	0.00E+00	1.33E-06	8.47E-07	9.25E-07	0.00E+00	1.77E-06	6.75E-08	2.08E-07	0.00E+00	2.75E-07	3.81E-08	1.30E-07	0.00E+00	1.68E-07
614	587343.3	4154202	4.32E-07	9.46E-07	0.00E+00	1.38E-06	8.78E-07	9.58E-07	0.00E+00	1.84E-06	6.99E-08	2.15E-07	0.00E+00	2.85E-07	3.94E-08	1.35E-07	0.00E+00	1.74E-07
615	587348.8	4154194	4.46E-07	9.78E-07	0.00E+00	1.42E-06	9.07E-07	9.90E-07	0.00E+00	1.90E-06	7.23E-08	2.23E-07	0.00E+00	2.95E-07	4.08E-08	1.39E-07	0.00E+00	1.80E-07
616	587354.3	4154186	4.6E-07	1.01E-06	0.00E+00	1.47E-06	9.36E-07	1.02E-06	0.00E+00	1.96E-06	7.46E-08	2.30E-07	0.00E+00	3.04E-07	4.20E-08	1.44E-07	0.00E+00	1.86E-07
617	587359.8	4154178	4.73E-07	1.04E-06	0.00E+00	1.51E-06	9.62E-07	1.05E-06	0.00E+00	2.01E-06	7.67E-08	2.36E-07	0.00E+00	3.13E-07	4.32E-08	1.48E-07	0.00E+00	1.91E-07
618	587365.3	4154170	4.85E-07	1.06E-06	0.00E+00	1.55E-06	9.87E-07	1.08E-06	0.00E+00	2.06E-06	7.86E-08	2.42E-07	0.00E+00	3.21E-07	4.43E-08	1.52E-07	0.00E+00	1.96E-07
619	587398.3	4154123	5.26E-07	1.15E-06	0.00E+00	1.68E-06	1.07E-06	1.17E-06	0.00E+00	2.24E-06	8.52E-08	2.62E-07	0.00E+00	3.48E-07	4.81E-08	1.64E-07	0.00E+00	2.12E-07
620	587403.8	4154115	5.26E-07	1.15E-06	0.00E+00	1.68E-06	1.07E-06	1.17E-06	0.00E+00	2.24E-06	8.52E-08	2.62E-07	0.00E+00	3.47E-07	4.80E-08	1.64E-07	0.00E+00	2.12E-07
621	587409.3	4154107	5.24E-07	1.15E-06	0.00E+00	1.67E-06	1.07E-06	1.16E-06	0.00E+00	2.23E-06	8.49E-08	2.61E-07	0.00E+00	3.46E-07	4.79E-08	1.64E-07	0.00E+00	2.12E-07
622	587414.8	4154099	5.21E-07	1.14E-06	0.00E+00	1.66E-06	1.06E-06	1.15E-06	0.00E+00	2.21E-06	8.43E-08	2.60E-07	0.00E+00	3.44E-07	4.75E-08	1.62E-07	0.00E+00	2.10E-07
623	587420.3	4154091	5.15E-07	1.13E-06	0.00E+00	1.64E-06	1.05E-06	1.14E-06	0.00E+00	2.19E-06	8.34E-08	2.57E-07	0.00E+00	3.40E-07	4.70E-08	1.61E-07	0.00E+00	2.08E-07
624	587425.8	4154083	5.08E-07	1.11E-06	0.00E+00	1.62E-06	1.03E-06	1.13E-06	0.00E+00	2.16E-06	8.23E-08	2.53E-07	0.00E+00	3.36E-07	4.64E-08	1.59E-07	0.00E+00	2.05E-07
625	587689.9	4154487	1.06E-06	2.32E-06	0.00E+00	3.37E-06	2.15E-06	2.34E-06	0.00E+00	4.49E-06	1.71E-07	5.27E-07	0.00E+00	6.98E-07	9.65E-08	3.30E-07	0.00E+00	4.26E-07
626	587706.3	4154480	1.2E-06	2.63E-06	0.00E+00	3.83E-06	2.44E-06	2.66E-06	0.00E+00	5.10E-06	1.94E-07	5.99E-07	0.00E+00	7.93E-07	1.10E-07	3.75E-07	0.00E+00	4.84E-07
627	587714.2	4154474	1.32E-06	2.89E-06	0.00E+00	4.21E-06	2.68E-06	2.93E-06	0.00E+00	5.61E-06	2.14E-07	6.58E-07	0.00E+00	8.71E-07	1.20E-07	4.12E-07	0.00E+00	5.32E-07
628	587722	4154469	1.45E-06	3.18E-06	0.00E+00	4.63E-06	2.95E-06	3.22E-06	0.00E+00	6.16E-06	2.35E-07	7.23E-07	0.00E+00	9.58E-07	1.32E-07	4.53E-07	0.00E+00	5.85E-07
629	587729.9	4154464	1.59E-06	3.49E-06	0.00E+00	5.08E-06	3.24E-06	3.53E-06	0.00E+00	6.77E-06	2.58E-07	7.94E-07	0.00E+00	1.05E-06	1.45E-07	4.97E-07	0.00E+00	6.43E-07
630	587737.8	4154458	1.74E-06	3.82E-06	0.00E+00	5.57E-06	3.55E-06	3.87E-06	0.00E+00	7.42E-06	2.83E-07	8.70E-07	0.00E+00	1.15E-06	1.59E-07	5.45E-07	0.00E+00	7.04E-07
631	587745.7	4154453	1.9E-06	4.17E-06	0.00E+00	6.07E-06	3.87E-06	4.22E-06	0.00E+00	8.09E-06	3.08E-07	9.49E-07	0.00E+00	1.26E-06	1.74E-07	5.94E-07	0.00E+00	7.68E-07
632	587695.6	4154495	9.38E-07	2.06E-06	0.00E+00	2.99E-06	1.91E-06	2.08E-06	0.00E+00	3.99E-06	1.52E-07	4.68E-07	0.00E+00	6.20E-07	8.56E-08	2.93E-07	0.00E+00	3.78E-07
633	587678.8	4154498	8.76E-07	1.92E-06	0.00E+00	2.80E-06	1.78E-06	1.94E-06	0.00E+00	3.72E-06	1.42E-07	4.37E-07	0.00E+00	5.79E-07	8.00E-08	2.74E-07	0.00E+00	3.54E-07
634	587662	4154502	8.14E-07	1.78E-06	0.00E+00	2.60E-06	1.66E-06	1.81E-06	0.00E+00	3.46E-06	1.32E-07	4.06E-07	0.00E+00	5.38E-07	7.44E-08	2.54E-07	0.00E+00	3.29E-07
635	587711.9	4154488	1.05E-06	2.31E-06	0.00E+00	3.36E-06	2.14E-06	2.34E-06	0.00E+00	4.48E-06	1.71E-07	5.25E-07	0.00E+00	6.96E-07	9.62E-08	3.29E-07	0.00E+00	4.25E-07
636	587719.7	4154483	1.15E-06	2.52E-06	0.00E+00	3.67E-06	2.33E-06	2.55E-06	0.00E+00	4.88E-06	1.86E-07	5.73E-07	0.00E+00	7.59E-07	1.05E-07	3.59E-07	0.00E+00	4.63E-07
637	587727.6	4154477	1.25E-06	2.75E-06	0.00E+00	4.00E-06	2.55E-06	2.78E-06	0.00E+00	5.33E-06	2.03E-07	6.25E-07	0.00E+00	8.28E-07	1.14E-07	3.91E-07	0.00E+00	5.06E-07
638	587735.5	4154472	1.37E-06	2.99E-06	0.00E+00	4.36E-06	2.78E-06	3.03E-06	0.00E+00	5.81E-06	2.21E-07	6.81E-07	0.00E+00	9.02E-07	1.25E-07	4.27E-07	0.00E+00	5.51E-07
639	587743.4	4154467	1.49E-06	3.26E-06	0.00E+00	4.75E-06	3.02E-06	3.30E-06	0.00E+00	6.32E-06	2.41E-07	7.41E-07	0.00E+00	9.82E-07	1.36E-07	4.64E-07	0.00E+00	6.00E-07
640	587751.3	4154461	1.61E-06	3.54E-06	0.00E+00	5.15E-06	3.28E-06	3.58E-06	0.00E+00	6.86E-06	2.61E-07	8.04E-07	0.00E+00	1.07E-06	1.47E-07	5.04E-07	0.00E+00	6.51E-07
641	587759.1	4154456	1.74E-06	3.82E-06	0.00E+00	5.56E-06	3.54E-06	3.87E-06	0.00E+00	7.41E-06	2.82E-07	8.69E-07	0.00E+00	1.15E-06	1.59E-07	5.44E-07	0.00E+00	7.03E-07
642	587701.3	4154503	8.39E-07	1.84E-06	0.00E+00	2.68E-06	1.71E-06	1.86E-06	0.00E+00	3.57E-06	1.36E-07	4.18E-07	0.00E+00	5.54E-07	7.66E-08	2.62E-07	0.00E+00	3.38E-07
643	587684.7	4154507	7.89E-07	1.73E-06	0.00E+00	2.52E-06	1.60E-06	1.75E-06	0.00E+00	3.35E-06	1.28E-07	3.93E-07	0.00E+00	5.21E-07	7.20E-08	2.46E-07	0.00E+00	3.18E-07
644	587668.1	4154510	7.39E-07	1.62E-06	0.00E+00	2.36E-06	1.50E-06	1.64E-06	0.00E+00	3.14E-06	1.20E-07	3.68E-07	0.00E+00	4.88E-07	6.74E-08	2.31E-07	0.00E+00	2.98E-07
645	587651.5	4154513	6.9E-07	1.51E-06	0.00E+00	2.20E-06	1.40E-06	1.53E-06	0.00E+00	2.93E-06	1.12E-07	3.44E-07	0.00E+00	4.56E-07	6.30E-08	2.15E-07	0.00E+00	2.78E-07
646	587717.5	4154496	9.34E-07	2.05E-06	0.00E+00	2.98E-06	1.90E-06	2.07E-06	0.00E+00	3.97E-06	1.51E-07	4.65E-07	0.00E+00	6.17E-07	8.52E-08	2.91E-07	0.00E+00	3.77E-07
647	587725.3	4154491	1.01E-06	2.22E-06	0.00E+00	3.23E-06	2.05E-06	2.24E-06	0.00E+00	4.30E-06	1.64E-07	5.04E-07	0.00E+00	6.68E-07	9.23E-08	3.16E-07	0.00E+00	4.08E-07
648	587733.2	4154486	1.1E-06	2.4E-06	0.00E+00	3.50E-06	2.23E-06	2.43E-06	0.00E+00	4.66E-06	1.77E-07	5.46E-07	0.00E+00	7.24E-07	1.00E-07	3.42E-07	0.00E+00	4.42E-07
649	587741.1	4154480	1.19E-06	2.6E-06	0.00E+00	3.79E-06	2.41E-06	2.63E-06	0.00E+00	5.05E-06	1.92E-07	5.92E-07	0.00E+00	7.84E-07	1.08E-07	3.71E-07	0.00E+00	4.79E-07
650	587749	4154475	1.28E-06	2.82E-06	0.00E+00	4.10E-06	2.61E-06	2.85E-06	0.00E+00	5.46E-06	2.08E-07	6.40E-07	0.00E+00	8.48E-07	1.17E-07	4.01E-07	0.00E+00	5.18E-07
651	587756.8	4154470	1.39E-06	3.04E-06	0.00E+00	4.43E-06	2.82E-06	3.08E-06	0.00E+00	5.90E-06	2.25E-07	6.92E-07	0.00E+00	9.16E-07	1.27E-07	4.33E-07	0.00E+00	5.60E-07
652	587764.7	4154464	1.49E-06	3.27E-06	0.00E+00	4.76E-06	3.03E-06	3.31E-06	0.00E+00	6.35E-06	2.42E-07	7.44E-07	0.00E+00	9.86E-07	1.36E-07	4.66E-07	0.00E+00	6.02E-07
653	587706	4154512	7.53E-07	1.65E-06	0.00E+00	2.40E-06	1.53E-06	1.67E-06	0.00E+00	3.20E-06	1.22E-07	3.75E-07	0.00E+00	4.97E-07	6.87E-08	2.35E-07	0.00E+00	3.04E-07
654	587696.9	4154513	7.3E-07	1.6E-06	0.00E+00	2.33E-06	1.48E-06	1.62E-06	0.00E+00	3.10E-06	1.18E-07	3.64E-07	0.00E+00	4.82E-07	6.67E-08	2.28E-07	0.00E+00	2.95E-07
655	587687.8	4154515	7.07E-07	1.55E-06	0.00E+00	2.26E-06	1.44E-06	1.57E-06	0.00E+00	3.01E-06	1.15E-07	3.53E-07	0.00E+00	4.67E-07	6.46E-08	2.21E-07	0.00E+00	2.85E-07
656	587678.7	4154517	6.84E-07	1.5E-06	0.00E+00	2.18E-06	1.39E-06	1.52E-06	0.00E+00	2.91E-06	1.11E-07	3.41E-07	0.00E+00	4.52E-07	6.25E-08	2.14E-07	0.00E+00	2.76E-07
657	587669.6	4154519	6.61E-07	1.45E-06	0.00E+00	2.11E-06	1.34E-06	1.47E-06	0.00E+00	2.81E-06	1.07E-07	3.30E-07	0.00E+00	4.37E-07	6.04E-08	2.06E-07	0.00E+00	2.67E-07

658	587660.4	4154521	6.38E-07	1.4E-06	0.00E+00	2.04E-06	1.30E-06	1.42E-06	0.00E+00	2.71E-06	1.03E-07	3.18E-07	0.00E+00	4.22E-07	5.83E-08	1.99E-07	0.00E+00	2.58E-07
659	587651.3	4154523	6.17E-07	1.35E-06	0.00E+00	1.97E-06	1.25E-06	1.37E-06	0.00E+00	2.62E-06	9.99E-08	3.07E-07	0.00E+00	4.07E-07	5.63E-08	1.92E-07	0.00E+00	2.49E-07
660	587642.2	4154525	5.96E-07	1.31E-06	0.00E+00	1.90E-06	1.21E-06	1.32E-06	0.00E+00	2.53E-06	9.65E-08	2.97E-07	0.00E+00	3.93E-07	5.44E-08	1.86E-07	0.00E+00	2.40E-07
661	587754.6	4154483	1.12E-06	2.46E-06	0.00E+00	3.58E-06	2.28E-06	2.49E-06	0.00E+00	4.77E-06	1.82E-07	5.59E-07	0.00E+00	7.41E-07	1.02E-07	3.50E-07	0.00E+00	4.53E-07
662	587762.4	4154478	1.21E-06	2.64E-06	0.00E+00	3.85E-06	2.45E-06	2.68E-06	0.00E+00	5.13E-06	1.95E-07	6.01E-07	0.00E+00	7.97E-07	1.10E-07	3.77E-07	0.00E+00	4.87E-07
663	587770.3	4154473	1.29E-06	2.83E-06	0.00E+00	4.13E-06	2.63E-06	2.87E-06	0.00E+00	5.50E-06	2.09E-07	6.45E-07	0.00E+00	8.54E-07	1.18E-07	4.04E-07	0.00E+00	5.22E-07
664	587684.9	4154525	6.25E-07	1.37E-06	0.00E+00	2.00E-06	1.27E-06	1.39E-06	0.00E+00	2.66E-06	1.01E-07	3.12E-07	0.00E+00	4.13E-07	5.71E-08	1.95E-07	0.00E+00	2.52E-07
665	587676	4154527	6.06E-07	1.33E-06	0.00E+00	1.93E-06	1.23E-06	1.34E-06	0.00E+00	2.58E-06	9.82E-08	3.02E-07	0.00E+00	4.00E-07	5.53E-08	1.89E-07	0.00E+00	2.45E-07
666	587667	4154529	5.87E-07	1.29E-06	0.00E+00	1.87E-06	1.19E-06	1.30E-06	0.00E+00	2.50E-06	9.51E-08	2.93E-07	0.00E+00	3.88E-07	5.36E-08	1.83E-07	0.00E+00	2.37E-07
667	587658.1	4154531	5.69E-07	1.25E-06	0.00E+00	1.82E-06	1.16E-06	1.26E-06	0.00E+00	2.42E-06	9.21E-08	2.84E-07	0.00E+00	3.76E-07	5.19E-08	1.78E-07	0.00E+00	2.29E-07
668	587649.1	4154533	5.51E-07	1.21E-06	0.00E+00	1.76E-06	1.12E-06	1.22E-06	0.00E+00	2.34E-06	8.92E-08	2.75E-07	0.00E+00	3.64E-07	5.03E-08	1.72E-07	0.00E+00	2.22E-07
669	587640.1	4154535	5.34E-07	1.17E-06	0.00E+00	1.70E-06	1.08E-06	1.18E-06	0.00E+00	2.27E-06	8.64E-08	2.66E-07	0.00E+00	3.53E-07	4.87E-08	1.67E-07	0.00E+00	2.15E-07
670	587623.5	4154531	5.39E-07	1.18E-06	0.00E+00	1.72E-06	1.10E-06	1.20E-06	0.00E+00	2.29E-06	8.73E-08	2.69E-07	0.00E+00	3.56E-07	4.92E-08	1.68E-07	0.00E+00	2.17E-07
671	587760.1	4154491	9.9E-07	2.17E-06	0.00E+00	3.16E-06	2.01E-06	2.20E-06	0.00E+00	4.21E-06	1.60E-07	4.93E-07	0.00E+00	6.54E-07	9.03E-08	3.09E-07	0.00E+00	3.99E-07
672	587768	4154486	1.06E-06	2.32E-06	0.00E+00	3.38E-06	2.15E-06	2.35E-06	0.00E+00	4.50E-06	1.72E-07	5.28E-07	0.00E+00	7.00E-07	9.67E-08	3.31E-07	0.00E+00	4.27E-07
673	587775.9	4154481	1.13E-06	2.48E-06	0.00E+00	3.61E-06	2.30E-06	2.51E-06	0.00E+00	4.81E-06	1.83E-07	5.64E-07	0.00E+00	7.47E-07	1.03E-07	3.53E-07	0.00E+00	4.57E-07
674	587717.5	4154528	6.21E-07	1.36E-06	0.00E+00	1.98E-06	1.26E-06	1.38E-06	0.00E+00	2.64E-06	1.01E-07	3.10E-07	0.00E+00	4.10E-07	5.67E-08	1.94E-07	0.00E+00	2.50E-07
675	587647	4154543	4.96E-07	1.09E-06	0.00E+00	1.58E-06	1.01E-06	1.10E-06	0.00E+00	2.11E-06	8.03E-08	2.47E-07	0.00E+00	3.27E-07	4.53E-08	1.55E-07	0.00E+00	2.00E-07
676	587638.1	4154544	4.81E-07	1.06E-06	0.00E+00	1.54E-06	9.79E-07	1.07E-06	0.00E+00	2.05E-06	7.80E-08	2.40E-07	0.00E+00	3.18E-07	4.40E-08	1.50E-07	0.00E+00	1.94E-07
677	587621.8	4154541	4.86E-07	1.07E-06	0.00E+00	1.55E-06	9.88E-07	1.08E-06	0.00E+00	2.07E-06	7.88E-08	2.42E-07	0.00E+00	3.21E-07	4.44E-08	1.52E-07	0.00E+00	1.96E-07
678	587614.2	4154536	5.05E-07	1.11E-06	0.00E+00	1.61E-06	1.03E-06	1.12E-06	0.00E+00	2.15E-06	8.18E-08	2.52E-07	0.00E+00	3.34E-07	4.61E-08	1.58E-07	0.00E+00	2.04E-07
679	587734.2	4154521	6.78E-07	1.49E-06	0.00E+00	2.16E-06	1.38E-06	1.50E-06	0.00E+00	2.88E-06	1.10E-07	3.38E-07	0.00E+00	4.48E-07	6.19E-08	2.12E-07	0.00E+00	2.74E-07
680	587742.1	4154516	7.23E-07	1.59E-06	0.00E+00	2.31E-06	1.47E-06	1.60E-06	0.00E+00	3.08E-06	1.17E-07	3.61E-07	0.00E+00	4.78E-07	6.61E-08	2.26E-07	0.00E+00	2.92E-07
681	587765.7	4154500	8.8E-07	1.93E-06	0.00E+00	2.81E-06	1.79E-06	1.95E-06	0.00E+00	3.74E-06	1.43E-07	4.39E-07	0.00E+00	5.81E-07	8.03E-08	2.75E-07	0.00E+00	3.55E-07
682	587773.6	4154494	9.38E-07	2.06E-06	0.00E+00	2.99E-06	1.91E-06	2.08E-06	0.00E+00	3.99E-06	1.52E-07	4.68E-07	0.00E+00	6.20E-07	8.57E-08	2.93E-07	0.00E+00	3.79E-07
683	587781.5	4154489	9.99E-07	2.19E-06	0.00E+00	3.19E-06	2.03E-06	2.22E-06	0.00E+00	4.25E-06	1.62E-07	4.98E-07	0.00E+00	6.60E-07	9.12E-08	3.12E-07	0.00E+00	4.03E-07
684	587723.2	4154536	5.68E-07	1.24E-06	0.00E+00	1.81E-06	1.15E-06	1.26E-06	0.00E+00	2.41E-06	9.19E-08	2.83E-07	0.00E+00	3.75E-07	5.18E-08	1.77E-07	0.00E+00	2.29E-07
685	587705.8	4154540	5.41E-07	1.19E-06	0.00E+00	1.73E-06	1.10E-06	1.20E-06	0.00E+00	2.30E-06	8.77E-08	2.70E-07	0.00E+00	3.57E-07	4.94E-08	1.69E-07	0.00E+00	2.18E-07
686	587636.1	4154554	4.37E-07	9.57E-07	0.00E+00	1.39E-06	8.88E-07	9.69E-07	0.00E+00	1.86E-06	7.07E-08	2.18E-07	0.00E+00	2.88E-07	3.99E-08	1.36E-07	0.00E+00	1.76E-07
687	587620	4154551	4.41E-07	9.67E-07	0.00E+00	1.41E-06	8.97E-07	9.79E-07	0.00E+00	1.88E-06	7.15E-08	2.20E-07	0.00E+00	2.91E-07	4.03E-08	1.38E-07	0.00E+00	1.78E-07
688	587605.1	4154541	4.74E-07	1.04E-06	0.00E+00	1.51E-06	9.64E-07	1.05E-06	0.00E+00	2.02E-06	7.68E-08	2.37E-07	0.00E+00	3.13E-07	4.33E-08	1.48E-07	0.00E+00	1.91E-07
689	587739.8	4154529	6.17E-07	1.35E-06	0.00E+00	1.97E-06	1.25E-06	1.37E-06	0.00E+00	2.62E-06	9.99E-08	3.07E-07	0.00E+00	4.07E-07	5.63E-08	1.93E-07	0.00E+00	2.49E-07
690	587747.7	4154524	6.55E-07	1.44E-06	0.00E+00	2.09E-06	1.33E-06	1.45E-06	0.00E+00	2.79E-06	1.06E-07	3.27E-07	0.00E+00	4.33E-07	5.98E-08	2.05E-07	0.00E+00	2.64E-07
691	587771.3	4154508	7.88E-07	1.73E-06	0.00E+00	2.52E-06	1.60E-06	1.75E-06	0.00E+00	3.35E-06	1.28E-07	3.93E-07	0.00E+00	5.21E-07	7.20E-08	2.46E-07	0.00E+00	3.18E-07
692	587779.2	4154503	8.37E-07	1.84E-06	0.00E+00	2.67E-06	1.70E-06	1.86E-06	0.00E+00	3.56E-06	1.36E-07	4.18E-07	0.00E+00	5.53E-07	7.65E-08	2.61E-07	0.00E+00	3.38E-07
693	587787.1	4154497	8.89E-07	1.95E-06	0.00E+00	2.84E-06	1.81E-06	1.97E-06	0.00E+00	3.78E-06	1.44E-07	4.43E-07	0.00E+00	5.87E-07	8.12E-08	2.78E-07	0.00E+00	3.59E-07
694	587728.9	4154545	5.21E-07	1.14E-06	0.00E+00	1.66E-06	1.06E-06	1.16E-06	0.00E+00	2.22E-06	8.44E-08	2.60E-07	0.00E+00	3.44E-07	4.76E-08	1.63E-07	0.00E+00	2.10E-07
695	587711.7	4154548	4.99E-07	1.09E-06	0.00E+00	1.59E-06	1.01E-06	1.11E-06	0.00E+00	2.12E-06	8.08E-08	2.49E-07	0.00E+00	3.29E-07	4.55E-08	1.56E-07	0.00E+00	2.01E-07
696	587694.5	4154552	4.75E-07	1.04E-06	0.00E+00	1.52E-06	9.66E-07	1.05E-06	0.00E+00	2.02E-06	7.70E-08	2.37E-07	0.00E+00	3.14E-07	4.34E-08	1.48E-07	0.00E+00	1.92E-07
697	587677.2	4154555	4.52E-07	9.91E-07	0.00E+00	1.44E-06	9.19E-07	1.00E-06	0.00E+00	1.92E-06	7.32E-08	2.25E-07	0.00E+00	2.99E-07	4.13E-08	1.41E-07	0.00E+00	1.82E-07
698	587618.2	4154561	4.02E-07	8.82E-07	0.00E+00	1.28E-06	8.18E-07	8.93E-07	0.00E+00	1.71E-06	6.52E-08	2.01E-07	0.00E+00	2.66E-07	3.67E-08	1.26E-07	0.00E+00	1.62E-07
699	587603.5	4154551	4.31E-07	9.45E-07	0.00E+00	1.38E-06	8.77E-07	9.57E-07	0.00E+00	1.83E-06	6.99E-08	2.15E-07	0.00E+00	2.85E-07	3.94E-08	1.35E-07	0.00E+00	1.74E-07
700	587745.4	4154538	5.64E-07	1.24E-06	0.00E+00	1.80E-06	1.15E-06	1.25E-06	0.00E+00	2.40E-06	9.13E-08	2.81E-07	0.00E+00	3.72E-07	5.15E-08	1.76E-07	0.00E+00	2.27E-07
701	587753.3	4154532	5.97E-07	1.31E-06	0.00E+00	1.91E-06	1.21E-06	1.32E-06	0.00E+00	2.54E-06	9.67E-08	2.98E-07	0.00E+00	3.94E-07	5.45E-08	1.86E-07	0.00E+00	2.41E-07
702	587776.9	4154516	7.1E-07	1.56E-06	0.00E+00	2.27E-06	1.44E-06	1.58E-06	0.00E+00	3.02E-06	1.15E-07	3.54E-07	0.00E+00	4.69E-07	6.49E-08	2.22E-07	0.00E+00	2.87E-07
703	587784.8	4154511	7.52E-07	1.65E-06	0.00E+00	2.40E-06	1.53E-06	1.67E-06	0.00E+00	3.20E-06	1.22E-07	3.75E-07	0.00E+00	4.97E-07	6.87E-08	2.35E-07	0.00E+00	3.04E-07
704	587792.7	4154506	7.96E-07	1.75E-06	0.00E+00	2.54E-06	1.62E-06	1.77E-06	0.00E+00	3.38E-06	1.29E-07	3.97E-07	0.00E+00	5.26E-07	7.27E-08	2.49E-07	0.00E+00	3.21E-07
705	587733.9	4154553	4.8E-07	1.05E-06	0.00E+00	1.53E-06	9.75E-07	1.06E-06	0.00E+00	2.04E-06	7.77E-08	2.39E-07	0.00E+00	3.17E-07	4.38E-08	1.50E-07	0.00E+00	1.94E-07
706	587724.7	4154555	4.7E-07	1.03E-06	0.00E+00	1.50E-06	9.54E-07	1.04E-06	0.00E+00	2.00E-06	7.60E-08	2.34E-07	0.00E+00	3.10E-07	4.29E-08	1.47E-07	0.00E+00	1.89E-07
707	587715.6	4154557	4.59E-07	1.01E-06	0.00E+00	1.46E-06	9.33E-07	1.02E-06	0.00E+00	1.95E-06	7.43E-08	2.29E-07	0.00E+00	3.03E-07	4.19E-08	1.43E-07	0.00E+00	1.85E-07
708	587706.4	4154559	4.48E-07	9.82E-07	0.00E+00	1.43E-06	9.11E-07	9.94E-07	0.00E+00	1.90E-06	7.26E-08	2.23E-07	0.00E+00	2.96E-07	4.09E-08	1.40E-07	0.00E+00	1.81E-07
709	587678.8	4154564	4.15E-07	9.1E-07	0.00E+00	1.33E-06	8.44E-07	9.21E-07	0.00E+00	1.77E-06	6.73E-08	2.07E-07	0.00E+00	2.74E-07	3.79E-08	1.30E-07	0.00E+00	1.68E-07
710	587669.6	4154566	4.05E-07	8.87E-07	0.00E+00	1.29E-06	8.23E-07	8.98E-07	0.00E+00	1.72E-06	6.55E-08	2.02E-07	0.00E+00	2.67E-07	3.70E-08	1.26E-07	0.00E+00	1.63E-07
711	587660.4	4154568	3.94E-07	8.64E-07	0.00E+00	1.26E-06	8.01E-07	8.75E-07	0.00E+00	1.68E-06	6.39E-08	1.97E-07	0.00E+00	2.60E-07	3.60E-08	1.23E-07	0.00E+00	1.59E-07
712	587651.2	4154570	3.84E-07	8.42E-07	0.00E+00	1.23E-06	7.81E-07	8.52E-07	0.00E+00	1.63E-06	6.22E-08	1.92E-07	0.00E+00	2.54E-07	3.51E-08	1.20E-07	0.00E+00	1.55E-07
713	587608	4154565	3.83E-07	8.4E-07	0.00E+00	1.22E-06	7.79E-07	8.50E-07	0.00E+00	1.63E-06	6.21E-08	1.91E-07	0.00E+00	2.53E-07	3.50E-08	1.20E-07	0.00E+00	1.55E-07
714	587600.1	4154560	3.97E-07	8.7E-07	0.00E+00	1.27E-06	8.07E-07	8.81E-07	0.00E+00	1.69E-06	6.43E-08	1.98E-07	0.00E+00	2.62E-07	3.63E-08	1.24E-07	0.00E+00	1.60E-07
715	587592.3	4154555	4.11E-07	9.01E-07	0.00E+00	1.31E-06	8.36E-07	9.12E-07	0.00E+00	1.75E-06	6.66E-08	2.05E-07	0.00E+00	2.72E-07	3.76E-08	1.28E-07	0.00E+00	1.66E-07
716	587743.1	4154551	4.9E-07	1.07E-06	0.00E+00	1.56E-06	9.96E-07	1.09E-06	0.00E+00	2.08E-06	7.93E-08	2.44E-07	0.00E+00	3.24E-07	4.47E-08	1.53E-07	0.00E+00	1.98E-07
717	587751	4154546	5.17E-07	1.13E-06	0.00E+00	1.65E-06	1.05E-06	1.15E-06	0.00E+00	2.20E-06	8.38E-08	2.58E-07	0.00E+00	3.42E-07	4.72E-08	1.61E-07	0.00E+00	2.09E-07
718	587758.9	4154541	5.46E-07	1.2E-06	0.00E+00	1.74E-06	1.11E-06	1.21E-06	0.00E+00	2.32E-06	8.84E-08	2.72E-07	0.00E+00	3.61E-07	4.99E-08	1.70E-07	0.00E+00	2.20E-07
719	587782.5	4154525	6.44E-07	1.41E-06	0.00E+00	2.05E-06	1.31E-06	1.43E-06	0.00E+00	2.74E-06	1.04E-07	3.21E-07	0.00E+00	4.25E-07	5.88E-08	2.01E-07	0.00E+00	2.60E-07
720	587790.4	4154519	6.8E-07	1.49E-06	0.00E+00	2.17E-06	1.38E-06	1.51E-06	0.00E+00	2.89E-06	1.10E-07	3.39E-07	0.00E+00	4.49E-07	6.21E-08	2.12E-07	0.00E+00	2.74E-07
721	587798.3	4154514	7.18E-07	1.57E-06	0.00E+00	2.29E-06	1.46E-06	1.59E-06	0.00E+00	3.05E-06	1.16E-07	3.58E-07	0.00E+00	4.74E-07	6.55E-08	2.24E-07	0.00E+00	2.90E-07
722	587739.6	4154561	4.44E-07	9.73E-07	0.00E+00	1.42E-06	9.02E-07	9.85E-07	0.00E+00	1.89E-06	7.19E-08	2.21E-07	0.00E+00	2.93E-07	4.05E-08	1.39E-07	0.00E+00	1.79E-07
723	587730.6	4154563	4.35E-07	9.53E-07	0.00E+00	1.39E-06	8.84E-07	9.65E-07	0.00E+00	1.85E-06	7.05E-08	2.17E-07	0.00E+00	2.87E-07	3.97E-08	1.36E-07	0.00E+00	1.76E-07
724	587721.5	4154565	4.26E-07	9.33E-07	0.00E+00	1.36E-06	8.66E-07	9.45E-07	0.00E+00	1.81E-06	6.90E-08	2.12E-07	0.00E+00	2.81E-07	3.89E-08	1.33E-07	0.00E+00	1.72E-07
725	587712.4	4154567	4.17E-07	9.13E-07	0.00E+00	1.33E-06	8.47E-07	9.24E-07	0.00E+00	1.77E-06	6.75E-08	2.08E-07	0.00E+00	2.75E-07	3.80E-08	1.30E-07	0.00E+00	1.68E-07
726	587703.4	4154569	4.07E-07	8.92E-07	0.00E+00	1.30E-06	8.27E-07	9.03E-07	0.00E+00	1.73E-06	6.59E-08	2.03E-07	0.00E+00	2.69E-07	3.72E-08	1.27E-07	0.00E+00	1.64E-07
727	587685.3	4154572	3.88E-07	8.51E-07	0.00E+00	1.24E-06	7.89E-07	8.61E-07	0.00E+00	1.65E-06	6.29E-08	1.93E-07	0.00E+00	2.56E-07	3.54E-08	1.21E-07	0.00E+00	1.57E-07
728	587676.2	4154574	3.79E-07	8.3E-07	0.00E+00	1.21E-06	7.70E-07	8.40E-07	0.00E+00	1.61E-06	6.13E-08	1.89E-07	0.00E+00	2.50E-07	3.46E-08	1.18E-07	0.00E+00	1.53E-07
729	587667.1	4154576	3.7E-07	8.1E-07	0.00E+00	1.18E-06	7.51E-07	8.20E-07	0.00E+00	1.57E-06	5.99E-08	1.84E-07	0.00E+00	2.44E-07	3.37E-08	1.15E-07	0.00E+00	1.49E-07
730	587658.1	4154578	3.61E-07	7.9E-07	0.00E+00	1.15E-06	7.33E-07	8.00E-07	0.00E+00	1.53E-06	5.84E-08	1.80E-07	0.00E+00	2.38E-07	3.29E-08	1.13E-07	0.00E+00	1.46E-07
731	587649	4154580	3.52E-07	7.71E-07	0.00E+00	1.12E-06	7.15E-07	7.80E-07	0.00E+00	1.50E-06	5.70E-08	1.75E-07	0.00E+00	2.32E-07	3.21E-08	1.10E-07	0.00E+00	1.42E-07
732	587639.9	4154582	3.43E-07	7.52E-07	0.00E+00	1.10E-06	6.98E-07	7.61E-07	0.00E+00	1.46E-06	5.56E-08	1.71E-07	0.00E+00	2.27E-07	3.13E-08	1.07E-07	0.00E+00	1.38E-07
733	587630.9	4154584	3.35E-07	7.35E-07	0.00E+00	1.07E-06	6.82E-07	7.44E-07	0.00E+00	1.43E-06	5.43E-08	1.67E-07	0.00E+00	2.21E-07	3.06E-08	1.05E-07	0.00E+00	1.35E-07
734	587598.6	4154570	3.64E-07	7.98E-07	0.00E+00	1.16E-06	7.40E-07	8.08E-07	0.00E+00	1.55E-06	5.90E-08	1.82E-07	0.00E+00	2.40E-07	3.32E-08	1.14E-07	0.00E+00	1.47E-07
735	587590.8	4154565	3.77E-07	8.25E-07	0.00E+00	1.20E-06	7.65E-07	8.35E-07	0.00E+00	1.60E-06	6.10E-08	1.88E-07	0.00E+00	2.49E-07	3.44E-08	1.18E-07	0.00E+00	1.52E-07
736	587583.1	4154560	3.89E-07	8.53E-07	0.00E+00	1.24E-06	7.91E-07	8.63E-07	0.00E+00	1.65E-06	6.30E-08	1.94E-07	0.00E+00	2.57E-07	3.55E-08	1.22E-07	0.00E+00	1.57E-07
737	587748.7	4154559	4.52E-07	9.92E-07	0.00E+00	1.44E-06	9.20E-07	1.00E-06	0.00E+00	1.92E-06	7.33E-08	2.26E-07	0.00E+00	2.99E-07	4.13E-08	1.41E-07	0.00E+00	1.83E-07
738	587756.6	4154554	4.76E-07	1.04E-06	0.00E+00	1.52E-06	9.68E-07	1.06E-06	0.00E+00	2.02E-06	7.71E-08	2.37E-07	0.00E+00	3.15E-07	4.35E-08	1.49E-07	0.00E+00	1.92E-07
739	587764.5	4154549	5.02E-07	1.1E-06	0.00E+00	1.60E-06	1.02E-06	1.11E-06	0.00E+00	2.13E-06	8.12E-08	2.50E-07	0.00E+00	3.31E-07	4.58E-08	1.57E-07	0.00E+00	2.02E-07
740	587788.1	4154533	5.86E-07	1.29E-06	0.00E+00	1.87E-06	1.19E-06	1.30E-06	0.00E+00	2.49E-06	9.50E-08	2.92E-07	0.00E+00	3.87E-07	5.35E-08	1.83E-07	0.00E+00	2.37E-07
741	587796	4154528	6.18E-07	1.35E-06	0.00E+00	1.97E-06	1.26E-06	1.37E-06	0.00E+00	2.63E-06	1.00E-07	3.08E-07	0.00E+00	4.08E-07	5.64E-08	1.93E-07	0.00E+00	2.49E-07
742	587803.8	4154522	6.5E-07	1.43E-06	0.00E+00	2.08E-06	1.32E-06	1.44E-06	0.00E+00	2.76E-06	1.05E-07	3.24E-07	0.00E+00	4.29E-07	5.94E-08	2.03E-07	0.00E+00	2.62E-07
743	587745.3	4154570	4.12E-07	9.03E-07	0.00E+00	1.31E-06	8.37E-07	9.14E-07	0.00E+00	1.75E-06	6.67E-08	2.05E-07	0.00E+00	2.72E-07	3.76E-08	1.29E-07	0.00E+00	1.66E-07
744	587736.4	4154571	4.04E-07	8.86E-07	0.00E+00	1.29E-06	8.22E-07	8.97E-07	0.00E+00	1.72E-06	6.55E-08	2.02E-07	0.00E+00	2.67E-07	3.69E-08	1.26E-07	0.00E+00	1.63E-07
745	587727.4	4154573	3.96E-07	8.69E-07	0.00E+00	1.26E-06	8.05E-07	8.79E-07	0.00E+00	1.68E-06	6.42E-08	1.98E-07	0.00E+00	2.62E-07	3.62E-08	1.24E-07	0.00E+00	1.60E-07
746	587718.5	4154575	3.88E-07	8.51E-07	0.00E+00	1.24E-06	7.89E-07	8.61E-07	0.00E+00	1.65E-06	6.29E-08	1.94E-07	0.00E+00	2.56E-07	3.54E-08	1.21E-07	0.00E+00	1.57E-07
747	587709.5	4154577	3.8E-07	8.33E-07	0.00E+00	1.21E-06	7.72E-07	8.43E-07	0.00E+00	1.62E-06	6.15E-08	1.89E-07	0.00E+00	2.51E-07	3.47E-08	1.19E-07	0.00E+00	1.53E-07
748	587691.6	4154581	3.63E-07	7.96E-07	0.00E+00	1.16E-06	7.39E-07	8.06E-07	0.00E+00	1.54E-06	5.89E-08	1.81E-07	0.00E+00	2.40E-07	3.32E-08	1.13E-07	0.00E+00	1.47E-07
749	587682.6	4154582	3.55E-07	7.78E-07	0.00E+00	1.13E-06	7.22E-07	7.88E-07	0.00E+00	1.51E-06	5.75E-08	1.77E-07	0.00E+00	2.35E-07	3.24E-08	1.11E-07	0.00E+00	1.43E-07
750	587673.7	4154584	3.47E-07	7.6E-07	0.00E+00	1.11E-06	7.05E-07	7.70E-07	0.00E+00	1.47E-06	5.62E-08	1.73E-07	0.00E+00	2.29E-07	3.17E-08	1.08E-07	0.00E+00	1.40E-07
751	587664.7	4154586	3.39E-07	7.43E-07	0.00E+00	1.08E-06	6.89E-07	7.52E-07	0.00E+00	1.44E-06	5.49E-08	1.69E-07	0.00E+00	2.24E-07	3.09E-08	1.06E-07	0.00E+00	1.37E-07
752	587655.8	4154588	3.31E-07	7.25E-07	0.00E+00	1.06E-06	6.72E-07	7.34E-07	0.00E+00	1.41E-06	5.36E-08	1.65E-07	0.00E+00	2.19E-07	3.02E-08	1.03E-07	0.00E+00	1.33E-07
753	587646.8	4154590	3.23E-07	7.09E-07	0.00E+00	1.03E-06	6.57E-07	7.17E-07	0.00E+00	1.37E-06	5.24E-08	1.61E-07	0.00E+00	2.14E-07	2.95E-08	1.01E-07	0.00E+00	1.30E-07
754	587637.8	4154592	3.16E-07	6.93E-07	0.00E+00	1.01E-06	6.43E-07	7.02E-07	0.00E+00	1.34E-06	5.12E-08	1.58E-07	0.00E+00	2.09E-07	2.89E-08	9.87E-08	0.00E+00	1.28E-07
755	587628.9	4154593	3.1E-07	6.78E-07	0.00E+00	9.88E-07	6.29E-07	6.87E-07	0.00E+00	1.32E-06	5.01E-08	1.54E-07	0.00E+00	2.04E-07	2.83E-08	9.66E-08	0.00E+00	1.25E-07
756	587589.3	4154575	3.46E-07	7.59E-07	0.00E+00	1.11E-06	7.04E-07	7.68E-07	0.00E+00	1.47E-06	5.61E-08	1.73E-07	0.00E+00	2.29E-07	3.16E-08	1.08E-07	0.00E+00	1.40E-07
757	587581.7	4154570	3.57E-07	7.84E-07	0.00E+00	1.14E-06	7.27E-07	7.93E-07	0.00E+00	1.52E-06	5.79E-08	1.78E-07	0.00E+00	2.36E-07	3.26E-08	1.12E-07	0.00E+00	1.44E-07
758	587574	4154565	3.69E-07	8.08E-07	0.00E+00	1.18E-06	7.49E-07	8.18E-07	0.00E+00	1.57E-06	5.97E-08	1.84E-07	0.00E+00	2.44E-07	3.37E-08	1.15E-07	0.00E+00	1.49E-07
759	587754.3	4154568	4.19E-07	9.19E-07	0.00E+00	1.34E-06	8.52E-07	9.30E-07	0.00E+00	1.78E-06	6.79E-08	2.09E-07	0.00E+00	2.77E-07	3.83E-08	1.31E-07	0.00E+00	1.69E-07
760	587762.2	4154562	4.4E-07	9.65E-07	0.00E+00	1.41E-06	8.95E-07	9.77E-07	0.00E+00	1.87E-06	7.13E-08	2.20E-07	0.00E+00	2.91E-07	4.02E-08	1.37E-07	0.00E+00	1.78E-07
761	587770	4154557	4.63E-07	1.01E-06	0.00E+00	1.48E-06	9.40E-07	1.03E-06	0.00E+00	1.97E-06	7.49E-08	2.31E-07	0.00E+00	3.06E-07	4.22E-08	1.44E-07	0.00E+00	1.87E-07
762	587785.8	4154547	5.11E-07	1.12E-06	0.00E+00	1.63E-06	1.04E-06	1.13E-06	0.00E+00	2.17E-06	8.27E-08	2.55E-07	0.00E+00	3.37E-07	4.66E-08	1.59E-07	0.00E+00	2.06E-07
763	587793.7	4154541	5.37E-07	1.18E-06	0.00E+00	1.71E-06	1.09E-06	1.19E-06	0.00E+00	2.28E-06	8.69E-08	2.67E-07	0.00E+00	3.54E-07	4.90E-08	1.67E-07	0.00E+00	2.16E-07
764	587801.6	4154536	5.64E-07	1.24E-06	0.00E+00	1.80E-06	1.15E-06	1.25E-06	0.00E+00	2.40E-06	9.13E-08	2.81E-07	0.00E+00	3.72E-07	5.15E-08	1.76E-07	0.00E+00	2.27E-07
765	587809.4	4154531	5.92E-07	1.3E-06	0.00E+00	1.89E-06	1.20E-06	1.31E-06	0.00E+00	2.52E-06	9.59E-08	2.95E-07	0.00E+00	3.91E-07	5.41E-08	1.85E-07	0.00E+00	2.39E-07
766	587751	4154578	3.83E-07	8.4E-07	0.00E+00	1.22E-06	7.79E-07	8.50E-07	0.00E+00	1.63E-06	6.21E-08	1.91E-07	0.00E+00	2.53E-07	3.50E-08	1.20E-07	0.00E+00	1.55E-07
767	587742.2	4154580	3.77E-07	8.25E-07	0.00E+00	1.20E-06	7.65E-07	8.35E-07	0.00E+00	1.60E-06	6.10E-08	1.88E-07	0.00E+00	2.49E-07	3.44E-08	1.18E-07	0.00E+00	1.52E-07

768	587724.4	4154583	3.63E-07	7.95E-07	0.00E+00	1.16E-06	7.37E-07	8.05E-07	0.00E+00	1.54E-06	5.87E-08	1.81E-07	0.00E+00	2.40E-07	3.31E-08	1.13E-07	0.00E+00	1.46E-07
769	587715.6	4154585	3.55E-07	7.79E-07	0.00E+00	1.13E-06	7.22E-07	7.89E-07	0.00E+00	1.51E-06	5.76E-08	1.77E-07	0.00E+00	2.35E-07	3.25E-08	1.11E-07	0.00E+00	1.43E-07
770	587697.8	4154589	3.41E-07	7.47E-07	0.00E+00	1.09E-06	6.93E-07	7.56E-07	0.00E+00	1.45E-06	5.52E-08	1.70E-07	0.00E+00	2.25E-07	3.11E-08	1.06E-07	0.00E+00	1.38E-07
771	587689	4154591	3.34E-07	7.31E-07	0.00E+00	1.06E-06	6.78E-07	7.40E-07	0.00E+00	1.42E-06	5.40E-08	1.66E-07	0.00E+00	2.20E-07	3.05E-08	1.04E-07	0.00E+00	1.35E-07
772	587680.1	4154592	3.26E-07	7.15E-07	0.00E+00	1.04E-06	6.63E-07	7.24E-07	0.00E+00	1.39E-06	5.28E-08	1.63E-07	0.00E+00	2.16E-07	2.98E-08	1.02E-07	0.00E+00	1.32E-07
773	587671.2	4154594	3.19E-07	6.99E-07	0.00E+00	1.02E-06	6.48E-07	7.07E-07	0.00E+00	1.36E-06	5.16E-08	1.59E-07	0.00E+00	2.11E-07	2.91E-08	9.95E-08	0.00E+00	1.29E-07
774	587662.4	4154596	3.11E-07	6.83E-07	0.00E+00	9.94E-07	6.33E-07	6.91E-07	0.00E+00	1.32E-06	5.04E-08	1.55E-07	0.00E+00	2.06E-07	2.84E-08	9.72E-08	0.00E+00	1.26E-07
775	587653.5	4154598	3.05E-07	6.68E-07	0.00E+00	9.73E-07	6.20E-07	6.76E-07	0.00E+00	1.30E-06	4.94E-08	1.52E-07	0.00E+00	2.01E-07	2.78E-08	9.52E-08	0.00E+00	1.23E-07
776	587644.7	4154600	2.99E-07	6.54E-07	0.00E+00	9.53E-07	6.07E-07	6.62E-07	0.00E+00	1.27E-06	4.83E-08	1.49E-07	0.00E+00	1.97E-07	2.73E-08	9.32E-08	0.00E+00	1.20E-07
777	587610.5	4154600	2.9E-07	6.36E-07	0.00E+00	9.26E-07	5.90E-07	6.44E-07	0.00E+00	1.23E-06	4.70E-08	1.45E-07	0.00E+00	1.92E-07	2.65E-08	9.06E-08	0.00E+00	1.17E-07
778	587587.8	4154585	3.19E-07	7E-07	0.00E+00	1.02E-06	6.49E-07	7.09E-07	0.00E+00	1.36E-06	5.17E-08	1.59E-07	0.00E+00	2.11E-07	2.92E-08	9.97E-08	0.00E+00	1.29E-07
779	587580.2	4154580	3.3E-07	7.22E-07	0.00E+00	1.05E-06	6.70E-07	7.31E-07	0.00E+00	1.40E-06	5.34E-08	1.64E-07	0.00E+00	2.18E-07	3.01E-08	1.03E-07	0.00E+00	1.33E-07
780	587565.1	4154570	3.5E-07	7.66E-07	0.00E+00	1.12E-06	7.11E-07	7.76E-07	0.00E+00	1.49E-06	5.66E-08	1.74E-07	0.00E+00	2.31E-07	3.19E-08	1.09E-07	0.00E+00	1.41E-07
781	587759.9	4154576	3.9E-07	8.54E-07	0.00E+00	1.24E-06	7.92E-07	8.65E-07	0.00E+00	1.66E-06	6.31E-08	1.94E-07	0.00E+00	2.57E-07	3.56E-08	1.22E-07	0.00E+00	1.57E-07
782	587767.8	4154571	4.08E-07	8.95E-07	0.00E+00	1.30E-06	8.30E-07	9.06E-07	0.00E+00	1.74E-06	6.61E-08	2.04E-07	0.00E+00	2.70E-07	3.73E-08	1.27E-07	0.00E+00	1.65E-07
783	587775.6	4154565	4.28E-07	9.38E-07	0.00E+00	1.37E-06	8.70E-07	9.49E-07	0.00E+00	1.82E-06	6.93E-08	2.13E-07	0.00E+00	2.83E-07	3.91E-08	1.34E-07	0.00E+00	1.73E-07
784	587791.4	4154555	4.7E-07	1.03E-06	0.00E+00	1.50E-06	9.56E-07	1.04E-06	0.00E+00	2.00E-06	7.62E-08	2.34E-07	0.00E+00	3.11E-07	4.29E-08	1.47E-07	0.00E+00	1.90E-07
785	587799.3	4154550	4.93E-07	1.08E-06	0.00E+00	1.57E-06	1.00E-06	1.09E-06	0.00E+00	2.10E-06	7.98E-08	2.46E-07	0.00E+00	3.26E-07	4.50E-08	1.54E-07	0.00E+00	1.99E-07
786	587807.1	4154544	5.17E-07	1.13E-06	0.00E+00	1.65E-06	1.05E-06	1.15E-06	0.00E+00	2.20E-06	8.37E-08	2.58E-07	0.00E+00	3.41E-07	4.72E-08	1.61E-07	0.00E+00	2.08E-07
787	587815	4154539	5.42E-07	1.19E-06	0.00E+00	1.73E-06	1.10E-06	1.20E-06	0.00E+00	2.30E-06	8.77E-08	2.70E-07	0.00E+00	3.58E-07	4.94E-08	1.69E-07	0.00E+00	2.19E-07
788	587756.7	4154586	3.58E-07	7.84E-07	0.00E+00	1.14E-06	7.27E-07	7.93E-07	0.00E+00	1.52E-06	5.79E-08	1.78E-07	0.00E+00	2.36E-07	3.26E-08	1.12E-07	0.00E+00	1.44E-07
789	587739.1	4154590	3.46E-07	7.58E-07	0.00E+00	1.10E-06	7.03E-07	7.67E-07	0.00E+00	1.47E-06	5.60E-08	1.72E-07	0.00E+00	2.28E-07	3.16E-08	1.08E-07	0.00E+00	1.39E-07
790	587721.6	4154593	3.33E-07	7.3E-07	0.00E+00	1.06E-06	6.77E-07	7.39E-07	0.00E+00	1.42E-06	5.40E-08	1.66E-07	0.00E+00	2.20E-07	3.04E-08	1.04E-07	0.00E+00	1.34E-07
791	587695.2	4154599	3.14E-07	6.88E-07	0.00E+00	1.00E-06	6.38E-07	6.96E-07	0.00E+00	1.33E-06	5.08E-08	1.56E-07	0.00E+00	2.07E-07	2.87E-08	9.80E-08	0.00E+00	1.27E-07
792	587677.7	4154602	3.01E-07	6.59E-07	0.00E+00	9.60E-07	6.11E-07	6.67E-07	0.00E+00	1.28E-06	4.87E-08	1.50E-07	0.00E+00	1.99E-07	2.75E-08	9.39E-08	0.00E+00	1.21E-07
793	587660.1	4154606	2.88E-07	6.31E-07	0.00E+00	9.19E-07	5.85E-07	6.39E-07	0.00E+00	1.22E-06	4.66E-08	1.44E-07	0.00E+00	1.90E-07	2.63E-08	8.99E-08	0.00E+00	1.16E-07
794	587642.5	4154610	2.77E-07	6.06E-07	0.00E+00	8.83E-07	5.62E-07	6.14E-07	0.00E+00	1.18E-06	4.48E-08	1.38E-07	0.00E+00	1.83E-07	2.53E-08	8.64E-08	0.00E+00	1.12E-07
795	587608.7	4154610	2.7E-07	5.91E-07	0.00E+00	8.60E-07	5.48E-07	5.98E-07	0.00E+00	1.15E-06	4.37E-08	1.34E-07	0.00E+00	1.78E-07	2.46E-08	8.42E-08	0.00E+00	1.09E-07
796	587571.2	4154586	3.14E-07	6.88E-07	0.00E+00	1.00E-06	6.38E-07	6.96E-07	0.00E+00	1.33E-06	5.08E-08	1.57E-07	0.00E+00	2.07E-07	2.87E-08	9.80E-08	0.00E+00	1.27E-07
797	587563.7	4154581	3.23E-07	7.08E-07	0.00E+00	1.03E-06	6.57E-07	7.17E-07	0.00E+00	1.37E-06	5.23E-08	1.61E-07	0.00E+00	2.13E-07	2.95E-08	1.01E-07	0.00E+00	1.30E-07
798	587773.3	4154579	3.8E-07	8.32E-07	0.00E+00	1.21E-06	7.72E-07	8.43E-07	0.00E+00	1.61E-06	6.15E-08	1.89E-07	0.00E+00	2.51E-07	3.47E-08	1.19E-07	0.00E+00	1.53E-07
799	587781.2	4154574	3.97E-07	8.7E-07	0.00E+00	1.27E-06	8.07E-07	8.81E-07	0.00E+00	1.69E-06	6.43E-08	1.98E-07	0.00E+00	2.62E-07	3.63E-08	1.24E-07	0.00E+00	1.60E-07
800	587797	4154563	4.35E-07	9.52E-07	0.00E+00	1.39E-06	8.83E-07	9.64E-07	0.00E+00	1.85E-06	7.04E-08	2.17E-07	0.00E+00	2.87E-07	3.97E-08	1.36E-07	0.00E+00	1.75E-07
801	587804.9	4154558	4.55E-07	9.96E-07	0.00E+00	1.45E-06	9.24E-07	1.01E-06	0.00E+00	1.93E-06	7.36E-08	2.27E-07	0.00E+00	3.00E-07	4.15E-08	1.42E-07	0.00E+00	1.83E-07
802	587812.7	4154552	4.76E-07	1.04E-06	0.00E+00	1.52E-06	9.67E-07	1.05E-06	0.00E+00	2.02E-06	7.70E-08	2.37E-07	0.00E+00	3.14E-07	4.34E-08	1.48E-07	0.00E+00	1.92E-07
803	587820.6	4154547	4.97E-07	1.09E-06	0.00E+00	1.59E-06	1.01E-06	1.10E-06	0.00E+00	2.11E-06	8.05E-08	2.48E-07	0.00E+00	3.29E-07	4.54E-08	1.55E-07	0.00E+00	2.01E-07
804	587761.8	4154595	3.34E-07	7.32E-07	0.00E+00	1.07E-06	6.79E-07	7.41E-07	0.00E+00	1.42E-06	5.41E-08	1.67E-07	0.00E+00	2.21E-07	3.05E-08	1.04E-07	0.00E+00	1.35E-07
805	587752.6	4154596	3.29E-07	7.2E-07	0.00E+00	1.05E-06	6.68E-07	7.29E-07	0.00E+00	1.40E-06	5.32E-08	1.64E-07	0.00E+00	2.17E-07	3.00E-08	1.03E-07	0.00E+00	1.33E-07
806	587743.4	4154598	3.23E-07	7.08E-07	0.00E+00	1.03E-06	6.57E-07	7.17E-07	0.00E+00	1.37E-06	5.23E-08	1.61E-07	0.00E+00	2.13E-07	2.95E-08	1.01E-07	0.00E+00	1.30E-07
807	587734.2	4154600	3.17E-07	6.95E-07	0.00E+00	1.01E-06	6.45E-07	7.04E-07	0.00E+00	1.35E-06	5.14E-08	1.58E-07	0.00E+00	2.10E-07	2.90E-08	9.90E-08	0.00E+00	1.28E-07
808	587725	4154602	3.11E-07	6.82E-07	0.00E+00	9.94E-07	6.33E-07	6.91E-07	0.00E+00	1.32E-06	5.04E-08	1.55E-07	0.00E+00	2.06E-07	2.84E-08	9.72E-08	0.00E+00	1.26E-07
809	587706.5	4154606	2.99E-07	6.56E-07	0.00E+00	9.55E-07	6.08E-07	6.64E-07	0.00E+00	1.27E-06	4.84E-08	1.49E-07	0.00E+00	1.98E-07	2.73E-08	9.34E-08	0.00E+00	1.21E-07
810	587697.3	4154608	2.93E-07	6.42E-07	0.00E+00	9.35E-07	5.96E-07	6.50E-07	0.00E+00	1.25E-06	4.75E-08	1.46E-07	0.00E+00	1.94E-07	2.68E-08	9.15E-08	0.00E+00	1.18E-07
811	587688.1	4154610	2.87E-07	6.29E-07	0.00E+00	9.16E-07	5.83E-07	6.36E-07	0.00E+00	1.22E-06	4.65E-08	1.43E-07	0.00E+00	1.89E-07	2.62E-08	8.96E-08	0.00E+00	1.16E-07
812	587678.9	4154612	2.81E-07	6.15E-07	0.00E+00	8.95E-07	5.70E-07	6.22E-07	0.00E+00	1.19E-06	4.54E-08	1.40E-07	0.00E+00	1.85E-07	2.56E-08	8.76E-08	0.00E+00	1.13E-07
813	587669.6	4154613	2.74E-07	6.01E-07	0.00E+00	8.76E-07	5.58E-07	6.09E-07	0.00E+00	1.17E-06	4.44E-08	1.37E-07	0.00E+00	1.81E-07	2.51E-08	8.57E-08	0.00E+00	1.11E-07
814	587660.4	4154615	2.69E-07	5.89E-07	0.00E+00	8.58E-07	5.46E-07	5.96E-07	0.00E+00	1.14E-06	4.35E-08	1.34E-07	0.00E+00	1.77E-07	2.45E-08	8.39E-08	0.00E+00	1.08E-07
815	587651.2	4154617	2.63E-07	5.77E-07	0.00E+00	8.40E-07	5.35E-07	5.84E-07	0.00E+00	1.12E-06	4.26E-08	1.31E-07	0.00E+00	1.74E-07	2.40E-08	8.22E-08	0.00E+00	1.06E-07
816	587642	4154619	2.58E-07	5.66E-07	0.00E+00	8.24E-07	5.25E-07	5.73E-07	0.00E+00	1.10E-06	4.18E-08	1.29E-07	0.00E+00	1.70E-07	2.36E-08	8.06E-08	0.00E+00	1.04E-07
817	587623.5	4154623	2.48E-07	5.44E-07	0.00E+00	7.93E-07	5.05E-07	5.51E-07	0.00E+00	1.06E-06	4.02E-08	1.24E-07	0.00E+00	1.64E-07	2.27E-08	7.75E-08	0.00E+00	1.00E-07
818	587606.4	4154620	2.52E-07	5.51E-07	0.00E+00	8.03E-07	5.11E-07	5.58E-07	0.00E+00	1.07E-06	4.07E-08	1.25E-07	0.00E+00	1.66E-07	2.30E-08	7.85E-08	0.00E+00	1.02E-07
819	587598.6	4154614	2.6E-07	5.69E-07	0.00E+00	8.29E-07	5.28E-07	5.76E-07	0.00E+00	1.10E-06	4.20E-08	1.29E-07	0.00E+00	1.71E-07	2.37E-08	8.10E-08	0.00E+00	1.05E-07
820	587590.7	4154609	2.68E-07	5.87E-07	0.00E+00	8.55E-07	5.45E-07	5.94E-07	0.00E+00	1.14E-06	4.34E-08	1.34E-07	0.00E+00	1.77E-07	2.45E-08	8.36E-08	0.00E+00	1.08E-07
821	587567.1	4154594	2.94E-07	6.44E-07	0.00E+00	9.38E-07	5.98E-07	6.52E-07	0.00E+00	1.25E-06	4.76E-08	1.47E-07	0.00E+00	1.94E-07	2.68E-08	9.18E-08	0.00E+00	1.19E-07
822	587559.2	4154589	3.03E-07	6.64E-07	0.00E+00	9.66E-07	6.15E-07	6.72E-07	0.00E+00	1.29E-06	4.90E-08	1.51E-07	0.00E+00	2.00E-07	2.76E-08	9.45E-08	0.00E+00	1.22E-07
823	587551.3	4154584	3.11E-07	6.82E-07	0.00E+00	9.94E-07	6.33E-07	6.91E-07	0.00E+00	1.32E-06	5.04E-08	1.55E-07	0.00E+00	2.06E-07	2.84E-08	9.72E-08	0.00E+00	1.26E-07
824	587543.4	4154578	3.2E-07	7.01E-07	0.00E+00	1.02E-06	6.50E-07	7.09E-07	0.00E+00	1.36E-06	5.18E-08	1.59E-07	0.00E+00	2.11E-07	2.92E-08	9.98E-08	0.00E+00	1.29E-07
825	587771.1	4154593	3.39E-07	7.44E-07	0.00E+00	1.08E-06	6.90E-07	7.53E-07	0.00E+00	1.44E-06	5.50E-08	1.69E-07	0.00E+00	2.24E-07	3.10E-08	1.06E-07	0.00E+00	1.37E-07
826	587778.9	4154587	3.54E-07	7.76E-07	0.00E+00	1.13E-06	7.20E-07	7.86E-07	0.00E+00	1.51E-06	5.74E-08	1.77E-07	0.00E+00	2.34E-07	3.23E-08	1.11E-07	0.00E+00	1.43E-07
827	587786.8	4154582	3.7E-07	8.1E-07	0.00E+00	1.18E-06	7.51E-07	8.20E-07	0.00E+00	1.57E-06	5.99E-08	1.84E-07	0.00E+00	2.44E-07	3.37E-08	1.15E-07	0.00E+00	1.49E-07
828	587802.6	4154571	4.03E-07	8.83E-07	0.00E+00	1.29E-06	8.19E-07	8.94E-07	0.00E+00	1.71E-06	6.52E-08	2.01E-07	0.00E+00	2.66E-07	3.68E-08	1.26E-07	0.00E+00	1.63E-07
829	587810.4	4154566	4.21E-07	9.22E-07	0.00E+00	1.34E-06	8.55E-07	9.33E-07	0.00E+00	1.79E-06	6.81E-08	2.10E-07	0.00E+00	2.78E-07	3.84E-08	1.31E-07	0.00E+00	1.70E-07
830	587818.3	4154561	4.39E-07	9.62E-07	0.00E+00	1.40E-06	8.92E-07	9.74E-07	0.00E+00	1.87E-06	7.11E-08	2.19E-07	0.00E+00	2.90E-07	4.01E-08	1.37E-07	0.00E+00	1.77E-07
831	587826.2	4154555	4.58E-07	1E-06	0.00E+00	1.46E-06	9.32E-07	1.02E-06	0.00E+00	1.95E-06	7.42E-08	2.29E-07	0.00E+00	3.03E-07	4.19E-08	1.43E-07	0.00E+00	1.85E-07
832	587767.5	4154603	3.13E-07	6.86E-07	0.00E+00	1.00E-06	6.37E-07	6.95E-07	0.00E+00	1.33E-06	5.07E-08	1.56E-07	0.00E+00	2.07E-07	2.86E-08	9.78E-08	0.00E+00	1.26E-07
833	587758.4	4154605	3.08E-07	6.76E-07	0.00E+00	9.84E-07	6.27E-07	6.84E-07	0.00E+00	1.31E-06	4.99E-08	1.54E-07	0.00E+00	2.04E-07	2.82E-08	9.63E-08	0.00E+00	1.24E-07
834	587749.3	4154607	3.03E-07	6.65E-07	0.00E+00	9.69E-07	6.17E-07	6.73E-07	0.00E+00	1.29E-06	4.91E-08	1.51E-07	0.00E+00	2.00E-07	2.77E-08	9.47E-08	0.00E+00	1.22E-07
835	587740.2	4154608	2.98E-07	6.54E-07	0.00E+00	9.52E-07	6.06E-07	6.62E-07	0.00E+00	1.27E-06	4.83E-08	1.49E-07	0.00E+00	1.97E-07	2.72E-08	9.31E-08	0.00E+00	1.20E-07
836	587731	4154610	2.93E-07	6.42E-07	0.00E+00	9.36E-07	5.96E-07	6.50E-07	0.00E+00	1.25E-06	4.75E-08	1.46E-07	0.00E+00	1.94E-07	2.68E-08	9.15E-08	0.00E+00	1.18E-07
837	587712.8	4154614	2.82E-07	6.19E-07	0.00E+00	9.01E-07	5.74E-07	6.26E-07	0.00E+00	1.20E-06	4.57E-08	1.41E-07	0.00E+00	1.86E-07	2.58E-08	8.81E-08	0.00E+00	1.14E-07
838	587703.7	4154616	2.77E-07	6.07E-07	0.00E+00	8.84E-07	5.63E-07	6.14E-07	0.00E+00	1.18E-06	4.48E-08	1.38E-07	0.00E+00	1.83E-07	2.53E-08	8.64E-08	0.00E+00	1.12E-07
839	587694.5	4154618	2.71E-07	5.94E-07	0.00E+00	8.65E-07	5.51E-07	6.01E-07	0.00E+00	1.15E-06	4.39E-08	1.35E-07	0.00E+00	1.79E-07	2.48E-08	8.46E-08	0.00E+00	1.09E-07
840	587685.4	4154620	2.65E-07	5.82E-07	0.00E+00	8.47E-07	5.40E-07	5.89E-07	0.00E+00	1.13E-06	4.30E-08	1.32E-07	0.00E+00	1.75E-07	2.42E-08	8.29E-08	0.00E+00	1.07E-07
841	587676.3	4154622	2.6E-07	5.7E-07	0.00E+00	8.30E-07	5.29E-07	5.77E-07	0.00E+00	1.11E-06	4.21E-08	1.30E-07	0.00E+00	1.72E-07	2.37E-08	8.12E-08	0.00E+00	1.05E-07
842	587667.2	4154623	2.55E-07	5.59E-07	0.00E+00	8.13E-07	5.18E-07	5.65E-07	0.00E+00	1.08E-06	4.13E-08	1.27E-07	0.00E+00	1.68E-07	2.33E-08	7.96E-08	0.00E+00	1.03E-07
843	587658	4154625	2.5E-07	5.48E-07	0.00E+00	7.98E-07	5.08E-07	5.54E-07	0.00E+00	1.06E-06	4.05E-08	1.25E-07	0.00E+00	1.65E-07	2.28E-08	7.80E-08	0.00E+00	1.01E-07
844	587648.9	4154627	2.45E-07	5.37E-07	0.00E+00	7.82E-07	4.98E-07	5.44E-07	0.00E+00	1.04E-06	3.97E-08	1.22E-07	0.00E+00	1.62E-07	2.24E-08	7.65E-08	0.00E+00	9.89E-08
845	587621.6	4154633	2.32E-07	5.08E-07	0.00E+00	7.40E-07	4.72E-07	5.15E-07	0.00E+00	9.86E-07	3.76E-08	1.16E-07	0.00E+00	1.53E-07	2.12E-08	7.24E-08	0.00E+00	9.36E-08
846	587604.6	4154630	2.35E-07	5.15E-07	0.00E+00	7.50E-07	4.78E-07	5.21E-07	0.00E+00	9.99E-07	3.81E-08	1.17E-07	0.00E+00	1.55E-07	2.15E-08	7.33E-08	0.00E+00	9.48E-08
847	587596.8	4154624	2.42E-07	5.31E-07	0.00E+00	7.73E-07	4.92E-07	5.37E-07	0.00E+00	1.03E-06	3.92E-08	1.21E-07	0.00E+00	1.60E-07	2.21E-08	7.56E-08	0.00E+00	9.77E-08
848	587589.1	4154619	2.5E-07	5.47E-07	0.00E+00	7.97E-07	5.07E-07	5.54E-07	0.00E+00	1.06E-06	4.04E-08	1.24E-07	0.00E+00	1.65E-07	2.28E-08	7.79E-08	0.00E+00	1.01E-07
849	587581.3	4154614	2.57E-07	5.64E-07	0.00E+00	8.21E-07	5.23E-07	5.71E-07	0.00E+00	1.09E-06	4.17E-08	1.28E-07	0.00E+00	1.70E-07	2.35E-08	8.03E-08	0.00E+00	1.04E-07
850	587557.9	4154599	2.81E-07	6.16E-07	0.00E+00	8.98E-07	5.72E-07	6.24E-07	0.00E+00	1.20E-06	4.55E-08	1.40E-07	0.00E+00	1.86E-07	2.57E-08	8.78E-08	0.00E+00	1.13E-07
851	587550.1	4154594	2.89E-07	6.34E-07	0.00E+00	9.23E-07	5.88E-07	6.41E-07	0.00E+00	1.23E-06	4.68E-08	1.44E-07	0.00E+00	1.91E-07	2.64E-08	9.02E-08	0.00E+00	1.17E-07
852	587542.3	4154589	2.97E-07	6.5E-07	0.00E+00	9.47E-07	6.03E-07	6.58E-07	0.00E+00	1.26E-06	4.81E-08	1.48E-07	0.00E+00	1.96E-07	2.71E-08	9.26E-08	0.00E+00	1.20E-07
853	587534.5	4154584	3.04E-07	6.66E-07	0.00E+00	9.71E-07	6.18E-07	6.75E-07	0.00E+00	1.29E-06	4.93E-08	1.52E-07	0.00E+00	2.01E-07	2.78E-08	9.49E-08	0.00E+00	1.23E-07
854	587776.6	4154601	3.18E-07	6.96E-07	0.00E+00	1.01E-06	6.46E-07	7.05E-07	0.00E+00	1.35E-06	5.15E-08	1.58E-07	0.00E+00	2.10E-07	2.90E-08	9.92E-08	0.00E+00	1.28E-07
855	587784.5	4154596	3.31E-07	7.26E-07	0.00E+00	1.06E-06	6.73E-07	7.34E-07	0.00E+00	1.41E-06	5.36E-08	1.65E-07	0.00E+00	2.19E-07	3.02E-08	1.03E-07	0.00E+00	1.34E-07
856	587792.4	4154590	3.45E-07	7.56E-07	0.00E+00	1.10E-06	7.01E-07	7.65E-07	0.00E+00	1.47E-06	5.59E-08	1.72E-07	0.00E+00	2.28E-07	3.15E-08	1.08E-07	0.00E+00	1.39E-07
857	587808.2	4154580	3.75E-07	8.21E-07	0.00E+00	1.20E-06	7.61E-07	8.31E-07	0.00E+00	1.59E-06	6.07E-08	1.87E-07	0.00E+00	2.47E-07	3.42E-08	1.17E-07	0.00E+00	1.51E-07
858	587816	4154574	3.9E-07	8.56E-07	0.00E+00	1.25E-06	7.93E-07	8.66E-07	0.00E+00	1.66E-06	6.32E-08	1.95E-07	0.00E+00	2.58E-07	3.56E-08	1.22E-07	0.00E+00	1.58E-07
859	587823.9	4154569	4.07E-07	8.92E-07	0.00E+00	1.30E-06	8.27E-07	9.03E-07	0.00E+00	1.73E-06	6.59E-08	2.03E-07	0.00E+00	2.69E-07	3.71E-08	1.27E-07	0.00E+00	1.64E-07
860	587831.8	4154564	4.24E-07	9.29E-07	0.00E+00	1.35E-06	8.62E-07	9.41E-07	0.00E+00	1.80E-06	6.87E-08	2.11E-07	0.00E+00	2.80E-07	3.87E-08	1.32E-07	0.00E+00	1.71E-07
861	587773.2	4154611	2.94E-07	6.45E-07	0.00E+00	9.39E-07	5.98E-07	6.53E-07	0.00E+00	1.25E-06	4.76E-08	1.47E-07	0.00E+00	1.94E-07	2.69E-08	9.18E-08	0.00E+00	1.19E-07
862	587764.2	4154613	2.9E-07	6.36E-07	0.00E+00	9.26E-07	5.89E-07	6.43E-07	0.00E+00	1.23E-06	4.70E-08	1.45E-07	0.00E+00	1.92E-07	2.65E-08	9.05E-08	0.00E+00	1.17E-07
863	587755.1	4154615	2.86E-07	6.26E-07	0.00E+00	9.12E-07	5.81E-07	6.34E-07	0.00E+00	1.21E-06	4.63E-08	1.42E-07	0.00E+00	1.89E-07	2.61E-08	8.92E-08	0.00E+00	1.15E-07
864	587746.1	4154617	2.81E-07	6.16E-07	0.00E+00	8.97E-07	5.71E-07	6.24E-07	0.00E+00	1.19E-06	4.55E-08	1.40E-07	0.00E+00	1.86E-07	2.57E-08	8.78E-08	0.00E+00	1.13E-07
865	587737.1	4154618	2.76E-07	6.06E-07	0.00E+00	8.82E-07	5.62E-07	6.13E-07	0.00E+00	1.18E-06	4.48E-08	1.38E-07	0.00E+00	1.83E-07	2.52E-08	8.63E-08	0.00E+00	1.12E-07
866	587710	4154624	2.62E-07	5.74E-07	0.00E+00	8.36E-07	5.32E-07	5.81E-07	0.00E+00	1.11E-06	4.24E-08	1.31E-07	0.00E+00	1.73E-07	2.39E-08	8.18E-08	0.00E+00	1.06E-07
867	587700.9	4154626	2.57E-07	5.63E-07	0.00E+00	8.19E-07	5.22E-07	5.70E-07	0.00E+00	1.09E-06	4.16E-08	1.28E-07	0.00E+00	1.70E-07	2.34E-08	8.01E-08	0.00E+00	1.04E-07
868	587691.9	4154628	2.51E-07	5.51E-07	0.00E+00	8.03E-07	5.11E-07	5.58E-07	0.00E+00	1.07E-06	4.07E-08	1.25E-07	0.00E+00	1.66E-07	2.30E-08	7.85E-08	0.00E+00	1.01E-07
869	587682.8	4154630	2.47E-07	5.41E-07	0.00E+00	7.87E-07	5.01E-07	5.47E-07	0.00E+00	1.05E-06	3.99E-08	1.23E-07	0.00E+00	1.63E-07	2.25E-08	7.70E-08	0.00E+00	9.95E-08
870	587673.8	4154631	2.42E-07	5.3E-07	0.00E+00	7.72E-07	4.92E-07	5.37E-07	0.00E+00	1.03E-06	3.92E-08	1.21E-07	0.00E+00	1.60E-07	2.21E-08	7.55E-08	0.00E+00	9.76E-08
871	587664.8	4154633	2.37E-07	5.2E-07	0.00E+00	7.58E-07	4.83E-07	5.27E-07	0.00E+00	1.01E-06	3.85E-08	1.18E-07	0.00E+00	1.57E-07	2.17E-08	7.41E-08	0.00E+00	9.58E-08
872	587655.7	4154635	2.33E-07	5.11E-07	0.00E+00	7.44E-07	4.74E-07	5.17E-07	0.00E+00	9.91E-07	3.77E-08	1.16E-07	0.00E+00	1.54E-07	2.13E-08	7.27E-08	0.00E+00	9.40E-08
873	587628.6	4154641	2.21E-07	4.84E-07	0.00E+00	7.05E-07	4.49E-07	4.90E-07	0.00E+00	9.39E-07	3.58E-08	1.10E-07	0.00E+00	1.46E-07	2.02E-08	6.90E-08	0.00E+00	8.91E-08
874	587619.6	4154643	2.17E-07	4.76E-07	0.00E+00	6.93E-07	4.42E-07	4.82E-07	0.00E+00	9.23E-07	3.52E-08	1.08E-07	0.00E+00	1.43E-07	1.98E-08	6.78E-08	0.00E+00	8.76E-08
875	587602.8	4154639	2.2E-07	4.82E-07	0.00E+00	7.02E-07	4.47E-07	4.88E-07	0.00E+00	9.35E-07	3.56E-08	1.10E-07	0.00E+00	1.45E-07	2.01E-08	6.87E-08	0.00E+00	8.88E-08
876	587595.1	4154634	2.27E-07	4.96E-07	0.00E+00	7.23E-07	4.60E-07	5.02E-07	0.00E+00	9.63E-07	3.67E-08	1.13E-07	0.00E+00	1.50E-07	2.07E-08	7.07E-08	0.00E+00	9.14E-08
877	587587.4	4154629	2.33E-07	5.11E-07	0.00E+00	7.45E-07	4.74E-07	5.17E-07	0.00E+00	9.92E-07	3.78E-08	1.16E-07	0.00E+00	1.54E-07	2.13E-08	7.28E-08	0.00E+00	9.41E-08

878	587579.7	4154624	2.4E-07	5.27E-07	0.00E+00	7.67E-07	4.88E-07	5.33E-07	0.00E+00	1.02E-06	3.89E-08	1.20E-07	0.00E+00	1.59E-07	2.19E-08	7.50E-08	0.00E+00	9.69E-08
879	587572	4154619	2.47E-07	5.42E-07	0.00E+00	7.89E-07	5.03E-07	5.49E-07	0.00E+00	1.05E-06	4.01E-08	1.23E-07	0.00E+00	1.63E-07	2.26E-08	7.72E-08	0.00E+00	9.98E-08
880	587548.8	4154604	2.69E-07	5.9E-07	0.00E+00	8.59E-07	5.47E-07	5.97E-07	0.00E+00	1.14E-06	4.36E-08	1.34E-07	0.00E+00	1.78E-07	2.46E-08	8.40E-08	0.00E+00	1.09E-07
881	587541.1	4154599	2.76E-07	6.05E-07	0.00E+00	8.81E-07	5.61E-07	6.13E-07	0.00E+00	1.17E-06	4.47E-08	1.38E-07	0.00E+00	1.82E-07	2.52E-08	8.62E-08	0.00E+00	1.11E-07
882	587533.4	4154594	2.83E-07	6.2E-07	0.00E+00	9.03E-07	5.75E-07	6.28E-07	0.00E+00	1.20E-06	4.58E-08	1.41E-07	0.00E+00	1.87E-07	2.58E-08	8.84E-08	0.00E+00	1.14E-07
883	587525.7	4154589	2.9E-07	6.35E-07	0.00E+00	9.24E-07	5.89E-07	6.42E-07	0.00E+00	1.23E-06	4.69E-08	1.44E-07	0.00E+00	1.91E-07	2.64E-08	9.04E-08	0.00E+00	1.17E-07
884	587782.2	4154609	2.98E-07	6.54E-07	0.00E+00	9.52E-07	6.06E-07	6.62E-07	0.00E+00	1.27E-06	4.83E-08	1.49E-07	0.00E+00	1.97E-07	2.72E-08	9.31E-08	0.00E+00	1.20E-07
885	587790.1	4154604	3.1E-07	6.8E-07	0.00E+00	9.90E-07	6.31E-07	6.88E-07	0.00E+00	1.32E-06	5.02E-08	1.55E-07	0.00E+00	2.05E-07	2.83E-08	9.68E-08	0.00E+00	1.25E-07
886	587798	4154599	3.23E-07	7.07E-07	0.00E+00	1.03E-06	6.56E-07	7.16E-07	0.00E+00	1.37E-06	5.23E-08	1.61E-07	0.00E+00	2.13E-07	2.95E-08	1.01E-07	0.00E+00	1.30E-07
887	587813.8	4154588	3.49E-07	7.65E-07	0.00E+00	1.11E-06	7.10E-07	7.75E-07	0.00E+00	1.48E-06	5.66E-08	1.74E-07	0.00E+00	2.31E-07	3.19E-08	1.09E-07	0.00E+00	1.41E-07
888	587821.6	4154583	3.63E-07	7.96E-07	0.00E+00	1.16E-06	7.39E-07	8.06E-07	0.00E+00	1.54E-06	5.88E-08	1.81E-07	0.00E+00	2.40E-07	3.32E-08	1.13E-07	0.00E+00	1.47E-07
889	587829.5	4154577	3.78E-07	8.29E-07	0.00E+00	1.21E-06	7.68E-07	8.39E-07	0.00E+00	1.61E-06	6.12E-08	1.88E-07	0.00E+00	2.50E-07	3.45E-08	1.18E-07	0.00E+00	1.53E-07
890	587837.4	4154572	3.93E-07	8.62E-07	0.00E+00	1.26E-06	8.00E-07	8.73E-07	0.00E+00	1.67E-06	6.37E-08	1.96E-07	0.00E+00	2.60E-07	3.59E-08	1.23E-07	0.00E+00	1.59E-07
891	587778.9	4154619	2.77E-07	6.07E-07	0.00E+00	8.84E-07	5.63E-07	6.14E-07	0.00E+00	1.18E-06	4.48E-08	1.38E-07	0.00E+00	1.83E-07	2.53E-08	8.64E-08	0.00E+00	1.12E-07
892	587769.9	4154621	2.73E-07	5.99E-07	0.00E+00	8.72E-07	5.55E-07	6.06E-07	0.00E+00	1.16E-06	4.42E-08	1.36E-07	0.00E+00	1.80E-07	2.49E-08	8.53E-08	0.00E+00	1.10E-07
893	587761	4154623	2.69E-07	5.9E-07	0.00E+00	8.59E-07	5.47E-07	5.97E-07	0.00E+00	1.14E-06	4.36E-08	1.34E-07	0.00E+00	1.78E-07	2.46E-08	8.41E-08	0.00E+00	1.09E-07
894	587752	4154625	2.65E-07	5.81E-07	0.00E+00	8.47E-07	5.39E-07	5.88E-07	0.00E+00	1.13E-06	4.30E-08	1.32E-07	0.00E+00	1.75E-07	2.42E-08	8.28E-08	0.00E+00	1.07E-07
895	587743	4154627	2.61E-07	5.72E-07	0.00E+00	8.34E-07	5.31E-07	5.79E-07	0.00E+00	1.11E-06	4.23E-08	1.30E-07	0.00E+00	1.73E-07	2.38E-08	8.15E-08	0.00E+00	1.05E-07
896	587716.2	4154632	2.48E-07	5.44E-07	0.00E+00	7.92E-07	5.05E-07	5.51E-07	0.00E+00	1.06E-06	4.02E-08	1.24E-07	0.00E+00	1.64E-07	2.27E-08	7.75E-08	0.00E+00	1.00E-07
897	587707.2	4154634	2.44E-07	5.34E-07	0.00E+00	7.77E-07	4.95E-07	5.40E-07	0.00E+00	1.04E-06	3.94E-08	1.21E-07	0.00E+00	1.61E-07	2.22E-08	7.60E-08	0.00E+00	9.83E-08
898	587698.3	4154636	2.39E-07	5.24E-07	0.00E+00	7.62E-07	4.86E-07	5.30E-07	0.00E+00	1.02E-06	3.87E-08	1.19E-07	0.00E+00	1.58E-07	2.18E-08	7.46E-08	0.00E+00	9.64E-08
899	587689.3	4154638	2.34E-07	5.14E-07	0.00E+00	7.48E-07	4.76E-07	5.20E-07	0.00E+00	9.96E-07	3.80E-08	1.17E-07	0.00E+00	1.55E-07	2.14E-08	7.32E-08	0.00E+00	9.46E-08
900	587680.3	4154640	2.3E-07	5.04E-07	0.00E+00	7.34E-07	4.68E-07	5.10E-07	0.00E+00	9.78E-07	3.73E-08	1.15E-07	0.00E+00	1.52E-07	2.10E-08	7.18E-08	0.00E+00	9.28E-08
901	587671.4	4154641	2.26E-07	4.95E-07	0.00E+00	7.21E-07	4.59E-07	5.01E-07	0.00E+00	9.60E-07	3.66E-08	1.13E-07	0.00E+00	1.49E-07	2.06E-08	7.05E-08	0.00E+00	9.11E-08
902	587662.4	4154643	2.22E-07	4.86E-07	0.00E+00	7.08E-07	4.51E-07	4.92E-07	0.00E+00	9.43E-07	3.59E-08	1.11E-07	0.00E+00	1.47E-07	2.03E-08	6.93E-08	0.00E+00	8.95E-08
903	587635.6	4154649	2.11E-07	4.61E-07	0.00E+00	6.72E-07	4.28E-07	4.67E-07	0.00E+00	8.95E-07	3.41E-08	1.05E-07	0.00E+00	1.39E-07	1.92E-08	6.57E-08	0.00E+00	8.50E-08
904	587626.6	4154651	2.07E-07	4.54E-07	0.00E+00	6.61E-07	4.21E-07	4.59E-07	0.00E+00	8.80E-07	3.35E-08	1.03E-07	0.00E+00	1.37E-07	1.89E-08	6.47E-08	0.00E+00	8.36E-08
905	587617.6	4154652	2.04E-07	4.47E-07	0.00E+00	6.51E-07	4.14E-07	4.52E-07	0.00E+00	8.67E-07	3.30E-08	1.02E-07	0.00E+00	1.35E-07	1.86E-08	6.36E-08	0.00E+00	8.22E-08
906	587601	4154649	2.06E-07	4.52E-07	0.00E+00	6.59E-07	4.20E-07	4.58E-07	0.00E+00	8.77E-07	3.34E-08	1.03E-07	0.00E+00	1.36E-07	1.88E-08	6.44E-08	0.00E+00	8.33E-08
907	587593.4	4154644	2.12E-07	4.65E-07	0.00E+00	6.78E-07	4.32E-07	4.71E-07	0.00E+00	9.03E-07	3.44E-08	1.06E-07	0.00E+00	1.40E-07	1.94E-08	6.63E-08	0.00E+00	8.57E-08
908	587585.7	4154639	2.18E-07	4.79E-07	0.00E+00	6.97E-07	4.44E-07	4.85E-07	0.00E+00	9.29E-07	3.54E-08	1.09E-07	0.00E+00	1.44E-07	1.99E-08	6.82E-08	0.00E+00	8.82E-08
909	587578.1	4154634	2.25E-07	4.93E-07	0.00E+00	7.17E-07	4.57E-07	4.99E-07	0.00E+00	9.56E-07	3.64E-08	1.12E-07	0.00E+00	1.48E-07	2.05E-08	7.02E-08	0.00E+00	9.07E-08
910	587570.4	4154629	2.31E-07	5.07E-07	0.00E+00	7.38E-07	4.70E-07	5.13E-07	0.00E+00	9.83E-07	3.75E-08	1.15E-07	0.00E+00	1.53E-07	2.11E-08	7.22E-08	0.00E+00	9.33E-08
911	587562.8	4154624	2.38E-07	5.21E-07	0.00E+00	7.59E-07	4.83E-07	5.28E-07	0.00E+00	1.01E-06	3.85E-08	1.19E-07	0.00E+00	1.57E-07	2.17E-08	7.43E-08	0.00E+00	9.60E-08
912	587539.8	4154609	2.58E-07	5.65E-07	0.00E+00	8.22E-07	5.24E-07	5.72E-07	0.00E+00	1.10E-06	4.17E-08	1.28E-07	0.00E+00	1.70E-07	2.35E-08	8.04E-08	0.00E+00	1.04E-07
913	587532.2	4154604	2.64E-07	5.79E-07	0.00E+00	8.43E-07	5.37E-07	5.86E-07	0.00E+00	1.12E-06	4.28E-08	1.32E-07	0.00E+00	1.74E-07	2.41E-08	8.24E-08	0.00E+00	1.07E-07
914	587524.5	4154599	2.7E-07	5.92E-07	0.00E+00	8.62E-07	5.49E-07	5.99E-07	0.00E+00	1.15E-06	4.38E-08	1.35E-07	0.00E+00	1.78E-07	2.47E-08	8.43E-08	0.00E+00	1.09E-07
915	587516.9	4154594	2.76E-07	6.05E-07	0.00E+00	8.81E-07	5.61E-07	6.12E-07	0.00E+00	1.17E-06	4.47E-08	1.38E-07	0.00E+00	1.82E-07	2.52E-08	8.62E-08	0.00E+00	1.11E-07
916	587787.8	4154618	2.8E-07	6.15E-07	0.00E+00	8.95E-07	5.70E-07	6.22E-07	0.00E+00	1.19E-06	4.54E-08	1.40E-07	0.00E+00	1.85E-07	2.56E-08	8.76E-08	0.00E+00	1.13E-07
917	587795.7	4154612	2.91E-07	6.38E-07	0.00E+00	9.30E-07	5.92E-07	6.46E-07	0.00E+00	1.24E-06	4.72E-08	1.45E-07	0.00E+00	1.92E-07	2.66E-08	9.09E-08	0.00E+00	1.18E-07
918	587803.6	4154607	3.03E-07	6.63E-07	0.00E+00	9.66E-07	6.15E-07	6.71E-07	0.00E+00	1.29E-06	4.90E-08	1.51E-07	0.00E+00	2.00E-07	2.76E-08	9.44E-08	0.00E+00	1.22E-07
919	587819.3	4154596	3.26E-07	7.15E-07	0.00E+00	1.04E-06	6.63E-07	7.24E-07	0.00E+00	1.39E-06	5.29E-08	1.63E-07	0.00E+00	2.16E-07	2.98E-08	1.02E-07	0.00E+00	1.32E-07
920	587827.2	4154591	3.39E-07	7.43E-07	0.00E+00	1.08E-06	6.89E-07	7.52E-07	0.00E+00	1.44E-06	5.49E-08	1.69E-07	0.00E+00	2.24E-07	3.10E-08	1.06E-07	0.00E+00	1.37E-07
921	587835.1	4154586	3.52E-07	7.72E-07	0.00E+00	1.12E-06	7.16E-07	7.82E-07	0.00E+00	1.50E-06	5.71E-08	1.76E-07	0.00E+00	2.33E-07	3.22E-08	1.10E-07	0.00E+00	1.42E-07
922	587843	4154580	3.66E-07	8.02E-07	0.00E+00	1.17E-06	7.44E-07	8.12E-07	0.00E+00	1.56E-06	5.93E-08	1.83E-07	0.00E+00	2.42E-07	3.34E-08	1.14E-07	0.00E+00	1.48E-07
923	587784.5	4154628	2.61E-07	5.72E-07	0.00E+00	8.33E-07	5.31E-07	5.79E-07	0.00E+00	1.11E-06	4.23E-08	1.30E-07	0.00E+00	1.72E-07	2.38E-08	8.15E-08	0.00E+00	1.05E-07
924	587775.6	4154629	2.58E-07	5.65E-07	0.00E+00	8.23E-07	5.24E-07	5.72E-07	0.00E+00	1.10E-06	4.17E-08	1.29E-07	0.00E+00	1.70E-07	2.35E-08	8.05E-08	0.00E+00	1.04E-07
925	587766.8	4154631	2.54E-07	5.57E-07	0.00E+00	8.12E-07	5.17E-07	5.64E-07	0.00E+00	1.08E-06	4.12E-08	1.27E-07	0.00E+00	1.68E-07	2.32E-08	7.94E-08	0.00E+00	1.03E-07
926	587757.9	4154633	2.51E-07	5.5E-07	0.00E+00	8.00E-07	5.10E-07	5.56E-07	0.00E+00	1.07E-06	4.06E-08	1.25E-07	0.00E+00	1.66E-07	2.29E-08	7.83E-08	0.00E+00	1.01E-07
927	587722.3	4154640	2.35E-07	5.16E-07	0.00E+00	7.52E-07	4.79E-07	5.22E-07	0.00E+00	1.00E-06	3.81E-08	1.17E-07	0.00E+00	1.56E-07	2.15E-08	7.35E-08	0.00E+00	9.50E-08
928	587713.4	4154642	2.31E-07	5.07E-07	0.00E+00	7.38E-07	4.70E-07	5.13E-07	0.00E+00	9.83E-07	3.75E-08	1.15E-07	0.00E+00	1.53E-07	2.11E-08	7.22E-08	0.00E+00	9.33E-08
929	587704.6	4154644	2.27E-07	4.98E-07	0.00E+00	7.25E-07	4.62E-07	5.04E-07	0.00E+00	9.65E-07	3.68E-08	1.13E-07	0.00E+00	1.50E-07	2.07E-08	7.09E-08	0.00E+00	9.16E-08
930	587695.7	4154646	2.23E-07	4.89E-07	0.00E+00	7.12E-07	4.53E-07	4.95E-07	0.00E+00	9.48E-07	3.61E-08	1.11E-07	0.00E+00	1.47E-07	2.04E-08	6.96E-08	0.00E+00	9.00E-08
931	587686.8	4154648	2.19E-07	4.8E-07	0.00E+00	6.99E-07	4.45E-07	4.86E-07	0.00E+00	9.31E-07	3.55E-08	1.09E-07	0.00E+00	1.45E-07	2.00E-08	6.84E-08	0.00E+00	8.84E-08
932	587677.9	4154650	2.15E-07	4.72E-07	0.00E+00	6.87E-07	4.37E-07	4.77E-07	0.00E+00	9.15E-07	3.48E-08	1.07E-07	0.00E+00	1.42E-07	1.96E-08	6.72E-08	0.00E+00	8.68E-08
933	587669	4154651	2.11E-07	4.63E-07	0.00E+00	6.75E-07	4.30E-07	4.69E-07	0.00E+00	8.99E-07	3.42E-08	1.05E-07	0.00E+00	1.40E-07	1.93E-08	6.60E-08	0.00E+00	8.53E-08
934	587660.1	4154653	2.08E-07	4.55E-07	0.00E+00	6.63E-07	4.22E-07	4.61E-07	0.00E+00	8.83E-07	3.37E-08	1.04E-07	0.00E+00	1.37E-07	1.90E-08	6.49E-08	0.00E+00	8.38E-08
935	587642.4	4154657	2.01E-07	4.4E-07	0.00E+00	6.41E-07	4.08E-07	4.46E-07	0.00E+00	8.54E-07	3.25E-08	1.00E-07	0.00E+00	1.33E-07	1.83E-08	6.27E-08	0.00E+00	8.11E-08
936	587633.5	4154659	1.98E-07	4.33E-07	0.00E+00	6.31E-07	4.02E-07	4.39E-07	0.00E+00	8.40E-07	3.20E-08	9.86E-08	0.00E+00	1.31E-07	1.80E-08	6.17E-08	0.00E+00	7.98E-08
937	587624.6	4154660	1.95E-07	4.27E-07	0.00E+00	6.21E-07	3.96E-07	4.32E-07	0.00E+00	8.27E-07	3.15E-08	9.70E-08	0.00E+00	1.29E-07	1.78E-08	6.08E-08	0.00E+00	7.85E-08
938	587615.7	4154662	1.92E-07	4.2E-07	0.00E+00	6.12E-07	3.90E-07	4.25E-07	0.00E+00	8.15E-07	3.10E-08	9.56E-08	0.00E+00	1.27E-07	1.75E-08	5.99E-08	0.00E+00	7.74E-08
939	587599.2	4154659	1.94E-07	4.25E-07	0.00E+00	6.20E-07	3.95E-07	4.31E-07	0.00E+00	8.25E-07	3.14E-08	9.68E-08	0.00E+00	1.28E-07	1.77E-08	6.06E-08	0.00E+00	7.83E-08
940	587584	4154649	2.05E-07	4.5E-07	0.00E+00	6.55E-07	4.17E-07	4.55E-07	0.00E+00	8.72E-07	3.32E-08	1.02E-07	0.00E+00	1.35E-07	1.87E-08	6.40E-08	0.00E+00	8.28E-08
941	587576.4	4154644	2.11E-07	4.62E-07	0.00E+00	6.73E-07	4.29E-07	4.68E-07	0.00E+00	8.96E-07	3.41E-08	1.05E-07	0.00E+00	1.39E-07	1.93E-08	6.58E-08	0.00E+00	8.51E-08
942	587568.9	4154639	2.17E-07	4.75E-07	0.00E+00	6.92E-07	4.41E-07	4.81E-07	0.00E+00	9.21E-07	3.51E-08	1.08E-07	0.00E+00	1.43E-07	1.98E-08	6.77E-08	0.00E+00	8.75E-08
943	587561.3	4154634	2.23E-07	4.88E-07	0.00E+00	7.11E-07	4.53E-07	4.94E-07	0.00E+00	9.47E-07	3.61E-08	1.11E-07	0.00E+00	1.47E-07	2.03E-08	6.95E-08	0.00E+00	8.99E-08
944	587553.7	4154629	2.29E-07	5.02E-07	0.00E+00	7.30E-07	4.65E-07	5.08E-07	0.00E+00	9.73E-07	3.71E-08	1.14E-07	0.00E+00	1.51E-07	2.09E-08	7.14E-08	0.00E+00	9.23E-08
945	587523.3	4154609	2.53E-07	5.54E-07	0.00E+00	8.06E-07	5.13E-07	5.60E-07	0.00E+00	1.07E-06	4.09E-08	1.26E-07	0.00E+00	1.67E-07	2.31E-08	7.89E-08	0.00E+00	1.02E-07
946	587515.7	4154604	2.58E-07	5.66E-07	0.00E+00	8.24E-07	5.25E-07	5.73E-07	0.00E+00	1.10E-06	4.18E-08	1.29E-07	0.00E+00	1.71E-07	2.36E-08	8.06E-08	0.00E+00	1.04E-07
947	587508.1	4154600	2.63E-07	5.77E-07	0.00E+00	8.41E-07	5.35E-07	5.84E-07	0.00E+00	1.12E-06	4.27E-08	1.31E-07	0.00E+00	1.74E-07	2.40E-08	8.22E-08	0.00E+00	1.06E-07
948	587793.4	4154626	2.64E-07	5.79E-07	0.00E+00	8.44E-07	5.37E-07	5.86E-07	0.00E+00	1.12E-06	4.28E-08	1.32E-07	0.00E+00	1.75E-07	2.41E-08	8.25E-08	0.00E+00	1.07E-07
949	587801.3	4154621	2.74E-07	6.01E-07	0.00E+00	8.75E-07	5.57E-07	6.08E-07	0.00E+00	1.17E-06	4.44E-08	1.37E-07	0.00E+00	1.81E-07	2.50E-08	8.56E-08	0.00E+00	1.11E-07
950	587809.2	4154615	2.84E-07	6.23E-07	0.00E+00	9.07E-07	5.78E-07	6.31E-07	0.00E+00	1.21E-06	4.60E-08	1.42E-07	0.00E+00	1.88E-07	2.60E-08	8.87E-08	0.00E+00	1.15E-07
951	587824.9	4154605	3.06E-07	6.7E-07	0.00E+00	9.76E-07	6.22E-07	6.78E-07	0.00E+00	1.30E-06	4.95E-08	1.52E-07	0.00E+00	2.02E-07	2.79E-08	9.55E-08	0.00E+00	1.23E-07
952	587832.8	4154599	3.17E-07	6.95E-07	0.00E+00	1.01E-06	6.45E-07	7.04E-07	0.00E+00	1.35E-06	5.14E-08	1.58E-07	0.00E+00	2.10E-07	2.90E-08	9.91E-08	0.00E+00	1.28E-07
953	587840.7	4154594	3.29E-07	7.21E-07	0.00E+00	1.05E-06	6.69E-07	7.30E-07	0.00E+00	1.40E-06	5.33E-08	1.64E-07	0.00E+00	2.17E-07	3.01E-08	1.03E-07	0.00E+00	1.33E-07
954	587848.6	4154589	3.42E-07	7.49E-07	0.00E+00	1.09E-06	6.94E-07	7.58E-07	0.00E+00	1.45E-06	5.53E-08	1.70E-07	0.00E+00	2.26E-07	3.12E-08	1.07E-07	0.00E+00	1.38E-07
955	587789.8	4154636	2.46E-07	5.4E-07	0.00E+00	7.87E-07	5.01E-07	5.47E-07	0.00E+00	1.05E-06	3.99E-08	1.23E-07	0.00E+00	1.63E-07	2.25E-08	7.69E-08	0.00E+00	9.94E-08
956	587780.5	4154638	2.43E-07	5.33E-07	0.00E+00	7.77E-07	4.95E-07	5.40E-07	0.00E+00	1.03E-06	3.94E-08	1.21E-07	0.00E+00	1.61E-07	2.22E-08	7.60E-08	0.00E+00	9.82E-08
957	587771.3	4154640	2.4E-07	5.26E-07	0.00E+00	7.66E-07	4.88E-07	5.33E-07	0.00E+00	1.02E-06	3.89E-08	1.20E-07	0.00E+00	1.59E-07	2.19E-08	7.50E-08	0.00E+00	9.69E-08
958	587762	4154642	2.37E-07	5.19E-07	0.00E+00	7.56E-07	4.81E-07	5.25E-07	0.00E+00	1.01E-06	3.83E-08	1.18E-07	0.00E+00	1.56E-07	2.16E-08	7.39E-08	0.00E+00	9.55E-08
959	587725.1	4154649	2.22E-07	4.87E-07	0.00E+00	7.09E-07	4.51E-07	4.93E-07	0.00E+00	9.44E-07	3.60E-08	1.11E-07	0.00E+00	1.47E-07	2.03E-08	6.93E-08	0.00E+00	8.96E-08
960	587715.8	4154651	2.18E-07	4.78E-07	0.00E+00	6.96E-07	4.43E-07	4.84E-07	0.00E+00	9.27E-07	3.53E-08	1.09E-07	0.00E+00	1.44E-07	1.99E-08	6.81E-08	0.00E+00	8.80E-08
961	587706.6	4154653	2.14E-07	4.7E-07	0.00E+00	6.84E-07	4.35E-07	4.75E-07	0.00E+00	9.11E-07	3.47E-08	1.07E-07	0.00E+00	1.42E-07	1.96E-08	6.69E-08	0.00E+00	8.64E-08
962	587697.3	4154655	2.1E-07	4.61E-07	0.00E+00	6.72E-07	4.28E-07	4.67E-07	0.00E+00	8.95E-07	3.41E-08	1.05E-07	0.00E+00	1.39E-07	1.92E-08	6.57E-08	0.00E+00	8.49E-08
963	587688.1	4154657	2.07E-07	4.53E-07	0.00E+00	6.60E-07	4.20E-07	4.59E-07	0.00E+00	8.79E-07	3.35E-08	1.03E-07	0.00E+00	1.37E-07	1.89E-08	6.45E-08	0.00E+00	8.34E-08
964	587678.9	4154659	2.03E-07	4.45E-07	0.00E+00	6.48E-07	4.13E-07	4.50E-07	0.00E+00	8.63E-07	3.29E-08	1.01E-07	0.00E+00	1.34E-07	1.85E-08	6.34E-08	0.00E+00	8.19E-08
965	587669.6	4154661	1.99E-07	4.37E-07	0.00E+00	6.37E-07	4.05E-07	4.42E-07	0.00E+00	8.48E-07	3.23E-08	9.94E-08	0.00E+00	1.32E-07	1.82E-08	6.23E-08	0.00E+00	8.05E-08
966	587651.1	4154664	1.93E-07	4.22E-07	0.00E+00	6.15E-07	3.92E-07	4.27E-07	0.00E+00	8.19E-07	3.12E-08	9.60E-08	0.00E+00	1.27E-07	1.76E-08	6.01E-08	0.00E+00	7.77E-08
967	587641.9	4154666	1.89E-07	4.15E-07	0.00E+00	6.05E-07	3.85E-07	4.20E-07	0.00E+00	8.05E-07	3.07E-08	9.45E-08	0.00E+00	1.25E-07	1.73E-08	5.91E-08	0.00E+00	7.64E-08
968	587632.7	4154668	1.86E-07	4.09E-07	0.00E+00	5.95E-07	3.79E-07	4.14E-07	0.00E+00	7.92E-07	3.02E-08	9.29E-08	0.00E+00	1.23E-07	1.70E-08	5.82E-08	0.00E+00	7.52E-08
969	587623.4	4154670	1.84E-07	4.02E-07	0.00E+00	5.86E-07	3.73E-07	4.07E-07	0.00E+00	7.80E-07	2.97E-08	9.15E-08	0.00E+00	1.21E-07	1.68E-08	5.73E-08	0.00E+00	7.40E-08
970	587614.2	4154672	1.81E-07	3.96E-07	0.00E+00	5.77E-07	3.67E-07	4.01E-07	0.00E+00	7.68E-07	2.93E-08	9.01E-08	0.00E+00	1.19E-07	1.65E-08	5.64E-08	0.00E+00	7.29E-08
971	587597	4154669	1.83E-07	4.01E-07	0.00E+00	5.84E-07	3.72E-07	4.06E-07	0.00E+00	7.78E-07	2.97E-08	9.13E-08	0.00E+00	1.21E-07	1.67E-08	5.72E-08	0.00E+00	7.39E-08
972	587589.1	4154664	1.88E-07	4.13E-07	0.00E+00	6.01E-07	3.83E-07	4.18E-07	0.00E+00	8.00E-07	3.05E-08	9.39E-08	0.00E+00	1.24E-07	1.72E-08	5.88E-08	0.00E+00	7.60E-08
973	587581.3	4154658	1.94E-07	4.24E-07	0.00E+00	6.18E-07	3.94E-07	4.30E-07	0.00E+00	8.23E-07	3.14E-08	9.66E-08	0.00E+00	1.28E-07	1.77E-08	6.05E-08	0.00E+00	7.81E-08
974	587573.4	4154653	1.99E-07	4.37E-07	0.00E+00	6.36E-07	4.05E-07	4.42E-07	0.00E+00	8.47E-07	3.23E-08	9.93E-08	0.00E+00	1.32E-07	1.82E-08	6.22E-08	0.00E+00	8.04E-08
975	587565.5	4154648	2.05E-07	4.49E-07	0.00E+00	6.54E-07	4.16E-07	4.55E-07	0.00E+00	8.71E-07	3.32E-08	1.02E-07	0.00E+00	1.35E-07	1.87E-08	6.40E-08	0.00E+00	8.27E-08
976	587526	4154622	2.34E-07	5.13E-07	0.00E+00	7.47E-07	4.75E-07	5.19E-07	0.00E+00	9.94E-07	3.79E-08	1.17E-07	0.00E+00	1.54E-07	2.14E-08	7.30E-08	0.00E+00	9.44E-08
977	587518.1	4154617	2.39E-07	5.25E-07	0.00E+00	7.64E-07	4.87E-07	5.31E-07	0.00E+00	1.02E-06	3.88E-08	1.19E-07	0.00E+00	1.58E-07	2.19E-08	7.47E-08	0.00E+00	9.66E-08
978	587510.2	4154612	2.45E-07	5.36E-07	0.00E+00	7.81E-07	4.97E-07	5.43E-07	0.00E+00	1.04E-06	3.96E-08	1.22E-07	0.00E+00	1.62E-07	2.23E-08	7.64E-08	0.00E+00	9.87E-08
979	587502.3	4154607	2.5E-07	5.47E-07	0.00E+00	7.97E-07	5.08E-07	5.54E-07	0.00E+00	1.06E-06	4.04E-08	1.25E-07	0.00E+00	1.65E-07	2.28E-08	7.80E-08	0.00E+00	1.01E-07
980	587799	4154634	2.49E-07	5.47E-07	0.00E+00	7.96E-07	5.07E-07	5.53E-07	0.00E+00	1.06E-06	4.04E-08	1.24E-07	0.00E+00	1.65E-07	2.28E-08	7.79E-08	0.00E+00	1.01E-07
981	587806.9	4154629	2.58E-07	5.66E-07	0.00E+00	8.25E-07	5.25E-07	5.73E-07	0.00E+00	1.10E-06	4.18E-08	1.29E-07	0.00E+00	1.71E-07	2.36E-08	8.07E-08	0.00E+00	1.04E-07
982	587814.8	4154623	2.68E-07	5.87E-07	0.00E+00	8.54E-07	5.44E-07	5.94E-07	0.00E+00	1.14E-06	4.33E-08	1.33E-07	0.00E+00	1.77E-07	2.44E-08	8.35E-08	0.00E+00	1.08E-07
983	587830.5	4154613	2.87E-07	6.29E-07	0.00E+00	9.17E-07	5.84E-07	6.37E-07	0.00E+00	1.22E-06	4.65E-08	1.43E-07	0.00E+00	1.90E-07	2.62E-08	8.96E-08	0.00E+00	1.16E-07
984	587838.4	4154608	2.98E-07	6.52E-07	0.00E+00	9.50E-07	6.05E-07	6.60E-07	0.00E+00	1.26E-06	4.82E-08	1.48E-07	0.00E+00	1.97E-07	2.72E-08	9.29E-08	0.00E+00	1.20E-07
985	587846.3	4154602	3.08E-07	6.76E-07	0.00E+00	9.84E-07	6.27E-07	6.84E-07	0.00E+00	1.31E-06	4.99E-08	1.54E-07	0.00E+00	2.04E-07	2.81E-08	9.62E-08	0.00E+00	1.24E-07
986	587854.2	4154597	3.19E-07	7E-07	0.00E+00	1.02E-06	6.49E-07	7.09E-07	0.00E+00	1.36E-06	5.17E-08	1.59E-07	0.00E+00	2.11E-07	2.92E-08	9.97E-08	0.00E+00	1.29E-07
987	587869.9	4154586	3.43E-07	7.52E-07	0.00E+00	1.09E-06	6.97E-07	7.61E-07	0.00E+00	1.46E-06	5.55E-08	1.71E-07	0.00E+00	2.27E-07	3.13E-08	1.07E-07	0.00E+00	1.38E-07

988	587795.4	4154644	2.33E-07	5.11E-07	0.00E+00	7.44E-07	4.74E-07	5.17E-07	0.00E+00	9.91E-07	3.78E-08	1.16E-07	0.00E+00	1.54E-07	2.13E-08	7.28E-08	0.00E+00	9.41E-08
989	587786.3	4154646	2.3E-07	5.05E-07	0.00E+00	7.35E-07	4.68E-07	5.11E-07	0.00E+00	9.79E-07	3.73E-08	1.15E-07	0.00E+00	1.52E-07	2.10E-08	7.19E-08	0.00E+00	9.30E-08
990	587777.1	4154648	2.28E-07	4.99E-07	0.00E+00	7.26E-07	4.62E-07	5.05E-07	0.00E+00	9.67E-07	3.68E-08	1.13E-07	0.00E+00	1.50E-07	2.08E-08	7.10E-08	0.00E+00	9.18E-08
991	587768	4154650	2.25E-07	4.92E-07	0.00E+00	7.17E-07	4.56E-07	4.98E-07	0.00E+00	9.54E-07	3.64E-08	1.12E-07	0.00E+00	1.48E-07	2.05E-08	7.01E-08	0.00E+00	9.06E-08
992	587758.8	4154652	2.21E-07	4.85E-07	0.00E+00	7.07E-07	4.50E-07	4.91E-07	0.00E+00	9.41E-07	3.59E-08	1.10E-07	0.00E+00	1.46E-07	2.02E-08	6.91E-08	0.00E+00	8.93E-08
993	587731.3	4154657	2.11E-07	4.63E-07	0.00E+00	6.74E-07	4.29E-07	4.69E-07	0.00E+00	8.98E-07	3.42E-08	1.05E-07	0.00E+00	1.40E-07	1.93E-08	6.60E-08	0.00E+00	8.53E-08
994	587722.1	4154659	2.08E-07	4.55E-07	0.00E+00	6.63E-07	4.22E-07	4.61E-07	0.00E+00	8.82E-07	3.36E-08	1.03E-07	0.00E+00	1.37E-07	1.90E-08	6.48E-08	0.00E+00	8.38E-08
995	587713	4154661	2.04E-07	4.47E-07	0.00E+00	6.52E-07	4.15E-07	4.53E-07	0.00E+00	8.68E-07	3.31E-08	1.02E-07	0.00E+00	1.35E-07	1.86E-08	6.37E-08	0.00E+00	8.24E-08
996	587703.8	4154663	2.01E-07	4.4E-07	0.00E+00	6.41E-07	4.08E-07	4.45E-07	0.00E+00	8.53E-07	3.25E-08	1.00E-07	0.00E+00	1.33E-07	1.83E-08	6.27E-08	0.00E+00	8.10E-08
997	587694.7	4154665	1.97E-07	4.32E-07	0.00E+00	6.30E-07	4.01E-07	4.38E-07	0.00E+00	8.39E-07	3.20E-08	9.84E-08	0.00E+00	1.30E-07	1.80E-08	6.16E-08	0.00E+00	7.96E-08
998	587685.5	4154667	1.94E-07	4.25E-07	0.00E+00	6.19E-07	3.94E-07	4.30E-07	0.00E+00	8.25E-07	3.14E-08	9.67E-08	0.00E+00	1.28E-07	1.77E-08	6.06E-08	0.00E+00	7.83E-08
999	587676.3	4154669	1.91E-07	4.18E-07	0.00E+00	6.09E-07	3.88E-07	4.23E-07	0.00E+00	8.11E-07	3.09E-08	9.51E-08	0.00E+00	1.26E-07	1.74E-08	5.95E-08	0.00E+00	7.69E-08
1000	587648.9	4154674	1.81E-07	3.97E-07	0.00E+00	5.79E-07	3.69E-07	4.02E-07	0.00E+00	7.71E-07	2.94E-08	9.04E-08	0.00E+00	1.20E-07	1.66E-08	5.66E-08	0.00E+00	7.32E-08
1001	587639.7	4154676	1.78E-07	3.91E-07	0.00E+00	5.70E-07	3.63E-07	3.96E-07	0.00E+00	7.59E-07	2.89E-08	8.90E-08	0.00E+00	1.18E-07	1.63E-08	5.57E-08	0.00E+00	7.20E-08
1002	587630.5	4154678	1.76E-07	3.85E-07	0.00E+00	5.61E-07	3.57E-07	3.90E-07	0.00E+00	7.47E-07	2.85E-08	8.76E-08	0.00E+00	1.16E-07	1.60E-08	5.49E-08	0.00E+00	7.09E-08
1003	587621.4	4154680	1.73E-07	3.79E-07	0.00E+00	5.53E-07	3.52E-07	3.84E-07	0.00E+00	7.36E-07	2.80E-08	8.63E-08	0.00E+00	1.14E-07	1.58E-08	5.40E-08	0.00E+00	6.98E-08
1004	587612.2	4154682	1.71E-07	3.74E-07	0.00E+00	5.45E-07	3.47E-07	3.79E-07	0.00E+00	7.25E-07	2.76E-08	8.51E-08	0.00E+00	1.13E-07	1.56E-08	5.33E-08	0.00E+00	6.89E-08
1005	587595.2	4154679	1.73E-07	3.79E-07	0.00E+00	5.52E-07	3.51E-07	3.83E-07	0.00E+00	7.35E-07	2.80E-08	8.62E-08	0.00E+00	1.14E-07	1.58E-08	5.40E-08	0.00E+00	6.97E-08
1006	587587.4	4154673	1.78E-07	3.89E-07	0.00E+00	5.67E-07	3.61E-07	3.94E-07	0.00E+00	7.55E-07	2.88E-08	8.85E-08	0.00E+00	1.17E-07	1.62E-08	5.54E-08	0.00E+00	7.17E-08
1007	587579.6	4154668	1.82E-07	4E-07	0.00E+00	5.82E-07	3.71E-07	4.05E-07	0.00E+00	7.76E-07	2.96E-08	9.10E-08	0.00E+00	1.21E-07	1.67E-08	5.70E-08	0.00E+00	7.36E-08
1008	587571.8	4154663	1.88E-07	4.11E-07	0.00E+00	5.99E-07	3.81E-07	4.16E-07	0.00E+00	7.97E-07	3.04E-08	9.35E-08	0.00E+00	1.24E-07	1.71E-08	5.86E-08	0.00E+00	7.57E-08
1009	587517	4154627	2.25E-07	4.92E-07	0.00E+00	7.17E-07	4.57E-07	4.98E-07	0.00E+00	9.55E-07	3.64E-08	1.12E-07	0.00E+00	1.48E-07	2.05E-08	7.01E-08	0.00E+00	9.07E-08
1010	587509.2	4154622	2.3E-07	5.03E-07	0.00E+00	7.33E-07	4.67E-07	5.09E-07	0.00E+00	9.76E-07	3.72E-08	1.15E-07	0.00E+00	1.52E-07	2.10E-08	7.17E-08	0.00E+00	9.27E-08
1011	587501.3	4154617	2.34E-07	5.14E-07	0.00E+00	7.48E-07	4.76E-07	5.20E-07	0.00E+00	9.97E-07	3.80E-08	1.17E-07	0.00E+00	1.55E-07	2.14E-08	7.32E-08	0.00E+00	9.46E-08
1012	587493.5	4154612	2.39E-07	5.24E-07	0.00E+00	7.63E-07	4.86E-07	5.30E-07	0.00E+00	1.02E-06	3.87E-08	1.19E-07	0.00E+00	1.58E-07	2.18E-08	7.46E-08	0.00E+00	9.64E-08
1013	587804.6	4154642	2.36E-07	5.17E-07	0.00E+00	7.53E-07	4.79E-07	5.23E-07	0.00E+00	1.00E-06	3.82E-08	1.18E-07	0.00E+00	1.56E-07	2.15E-08	7.36E-08	0.00E+00	9.52E-08
1014	587812.5	4154637	2.44E-07	5.35E-07	0.00E+00	7.79E-07	4.96E-07	5.41E-07	0.00E+00	1.04E-06	3.95E-08	1.22E-07	0.00E+00	1.61E-07	2.23E-08	7.62E-08	0.00E+00	9.85E-08
1015	587820.4	4154632	2.52E-07	5.53E-07	0.00E+00	8.06E-07	5.13E-07	5.60E-07	0.00E+00	1.07E-06	4.09E-08	1.26E-07	0.00E+00	1.67E-07	2.30E-08	7.88E-08	0.00E+00	1.02E-07
1016	587836.1	4154621	2.7E-07	5.92E-07	0.00E+00	8.62E-07	5.49E-07	5.99E-07	0.00E+00	1.15E-06	4.38E-08	1.35E-07	0.00E+00	1.78E-07	2.47E-08	8.44E-08	0.00E+00	1.09E-07
1017	587844	4154616	2.8E-07	6.13E-07	0.00E+00	8.92E-07	5.68E-07	6.20E-07	0.00E+00	1.19E-06	4.53E-08	1.39E-07	0.00E+00	1.85E-07	2.55E-08	8.73E-08	0.00E+00	1.13E-07
1018	587851.9	4154611	2.89E-07	6.34E-07	0.00E+00	9.23E-07	5.88E-07	6.42E-07	0.00E+00	1.23E-06	4.69E-08	1.44E-07	0.00E+00	1.91E-07	2.64E-08	9.03E-08	0.00E+00	1.17E-07
1019	587859.7	4154605	2.99E-07	6.56E-07	0.00E+00	9.56E-07	6.09E-07	6.64E-07	0.00E+00	1.27E-06	4.85E-08	1.49E-07	0.00E+00	1.98E-07	2.73E-08	9.35E-08	0.00E+00	1.21E-07
1020	587875.5	4154595	3.21E-07	7.03E-07	0.00E+00	1.02E-06	6.52E-07	7.12E-07	0.00E+00	1.36E-06	5.19E-08	1.60E-07	0.00E+00	2.12E-07	2.93E-08	1.00E-07	0.00E+00	1.29E-07
1021	587801.1	4154653	2.21E-07	4.84E-07	0.00E+00	7.05E-07	4.49E-07	4.90E-07	0.00E+00	9.39E-07	3.58E-08	1.10E-07	0.00E+00	1.46E-07	2.02E-08	6.90E-08	0.00E+00	8.92E-08
1022	587792	4154654	2.18E-07	4.79E-07	0.00E+00	6.97E-07	4.44E-07	4.85E-07	0.00E+00	9.29E-07	3.54E-08	1.09E-07	0.00E+00	1.44E-07	1.99E-08	6.82E-08	0.00E+00	8.81E-08
1023	587782.9	4154656	2.16E-07	4.73E-07	0.00E+00	6.89E-07	4.39E-07	4.79E-07	0.00E+00	9.18E-07	3.50E-08	1.08E-07	0.00E+00	1.43E-07	1.97E-08	6.74E-08	0.00E+00	8.71E-08
1024	587773.8	4154658	2.13E-07	4.67E-07	0.00E+00	6.80E-07	4.33E-07	4.73E-07	0.00E+00	9.06E-07	3.45E-08	1.06E-07	0.00E+00	1.41E-07	1.95E-08	6.66E-08	0.00E+00	8.60E-08
1025	587764.8	4154660	2.1E-07	4.61E-07	0.00E+00	6.72E-07	4.28E-07	4.67E-07	0.00E+00	8.94E-07	3.41E-08	1.05E-07	0.00E+00	1.39E-07	1.92E-08	6.57E-08	0.00E+00	8.49E-08
1026	587755.7	4154662	2.08E-07	4.55E-07	0.00E+00	6.62E-07	4.22E-07	4.60E-07	0.00E+00	8.82E-07	3.36E-08	1.03E-07	0.00E+00	1.37E-07	1.89E-08	6.48E-08	0.00E+00	8.37E-08
1027	587746.6	4154664	2.05E-07	4.48E-07	0.00E+00	6.53E-07	4.16E-07	4.54E-07	0.00E+00	8.70E-07	3.31E-08	1.02E-07	0.00E+00	1.35E-07	1.87E-08	6.39E-08	0.00E+00	8.25E-08
1028	587737.5	4154666	2.01E-07	4.41E-07	0.00E+00	6.43E-07	4.09E-07	4.47E-07	0.00E+00	8.56E-07	3.26E-08	1.00E-07	0.00E+00	1.33E-07	1.84E-08	6.29E-08	0.00E+00	8.12E-08
1029	587728.4	4154667	1.98E-07	4.34E-07	0.00E+00	6.32E-07	4.03E-07	4.39E-07	0.00E+00	8.42E-07	3.21E-08	9.87E-08	0.00E+00	1.31E-07	1.81E-08	6.18E-08	0.00E+00	7.99E-08
1030	587719.3	4154669	1.95E-07	4.27E-07	0.00E+00	6.22E-07	3.96E-07	4.32E-07	0.00E+00	8.28E-07	3.16E-08	9.71E-08	0.00E+00	1.29E-07	1.78E-08	6.08E-08	0.00E+00	7.86E-08
1031	587710.2	4154671	1.92E-07	4.2E-07	0.00E+00	6.12E-07	3.90E-07	4.25E-07	0.00E+00	8.15E-07	3.10E-08	9.56E-08	0.00E+00	1.27E-07	1.75E-08	5.98E-08	0.00E+00	7.74E-08
1032	587701.1	4154673	1.89E-07	4.13E-07	0.00E+00	6.02E-07	3.83E-07	4.18E-07	0.00E+00	8.02E-07	3.05E-08	9.40E-08	0.00E+00	1.25E-07	1.72E-08	5.89E-08	0.00E+00	7.61E-08
1033	587692.1	4154675	1.85E-07	4.07E-07	0.00E+00	5.92E-07	3.77E-07	4.11E-07	0.00E+00	7.88E-07	3.00E-08	9.25E-08	0.00E+00	1.23E-07	1.69E-08	5.79E-08	0.00E+00	7.48E-08
1034	587655.7	4154682	1.74E-07	3.81E-07	0.00E+00	5.54E-07	3.53E-07	3.85E-07	0.00E+00	7.38E-07	2.81E-08	8.66E-08	0.00E+00	1.15E-07	1.59E-08	5.42E-08	0.00E+00	7.01E-08
1035	587646.6	4154684	1.71E-07	3.75E-07	0.00E+00	5.46E-07	3.48E-07	3.79E-07	0.00E+00	7.27E-07	2.77E-08	8.52E-08	0.00E+00	1.13E-07	1.56E-08	5.34E-08	0.00E+00	6.90E-08
1036	587637.5	4154686	1.68E-07	3.69E-07	0.00E+00	5.37E-07	3.42E-07	3.74E-07	0.00E+00	7.16E-07	2.73E-08	8.40E-08	0.00E+00	1.11E-07	1.54E-08	5.26E-08	0.00E+00	6.79E-08
1037	587628.4	4154688	1.66E-07	3.64E-07	0.00E+00	5.30E-07	3.37E-07	3.68E-07	0.00E+00	7.05E-07	2.69E-08	8.27E-08	0.00E+00	1.10E-07	1.52E-08	5.18E-08	0.00E+00	6.70E-08
1038	587619.4	4154690	1.64E-07	3.59E-07	0.00E+00	5.22E-07	3.32E-07	3.63E-07	0.00E+00	6.95E-07	2.65E-08	8.16E-08	0.00E+00	1.08E-07	1.49E-08	5.11E-08	0.00E+00	6.60E-08
1039	587610.3	4154692	1.61E-07	3.54E-07	0.00E+00	5.15E-07	3.28E-07	3.58E-07	0.00E+00	6.86E-07	2.61E-08	8.05E-08	0.00E+00	1.07E-07	1.47E-08	5.04E-08	0.00E+00	6.51E-08
1040	587593.4	4154688	1.63E-07	3.58E-07	0.00E+00	5.22E-07	3.32E-07	3.63E-07	0.00E+00	6.95E-07	2.65E-08	8.15E-08	0.00E+00	1.08E-07	1.49E-08	5.10E-08	0.00E+00	6.59E-08
1041	587585.7	4154683	1.68E-07	3.68E-07	0.00E+00	5.35E-07	3.41E-07	3.72E-07	0.00E+00	7.13E-07	2.72E-08	8.36E-08	0.00E+00	1.11E-07	1.53E-08	5.24E-08	0.00E+00	6.77E-08
1042	587554.6	4154663	1.87E-07	4.09E-07	0.00E+00	5.95E-07	3.79E-07	4.14E-07	0.00E+00	7.93E-07	3.02E-08	9.30E-08	0.00E+00	1.23E-07	1.70E-08	5.82E-08	0.00E+00	7.53E-08
1043	587546.9	4154658	1.92E-07	4.2E-07	0.00E+00	6.11E-07	3.89E-07	4.25E-07	0.00E+00	8.14E-07	3.10E-08	9.55E-08	0.00E+00	1.26E-07	1.75E-08	5.98E-08	0.00E+00	7.73E-08
1044	587539.1	4154653	1.96E-07	4.31E-07	0.00E+00	6.27E-07	3.99E-07	4.36E-07	0.00E+00	8.35E-07	3.18E-08	9.80E-08	0.00E+00	1.30E-07	1.79E-08	6.13E-08	0.00E+00	7.93E-08
1045	587531.3	4154648	2.01E-07	4.42E-07	0.00E+00	6.43E-07	4.09E-07	4.47E-07	0.00E+00	8.56E-07	3.26E-08	1.00E-07	0.00E+00	1.33E-07	1.84E-08	6.29E-08	0.00E+00	8.13E-08
1046	587508	4154633	2.16E-07	4.73E-07	0.00E+00	6.89E-07	4.39E-07	4.79E-07	0.00E+00	9.18E-07	3.50E-08	1.08E-07	0.00E+00	1.43E-07	1.97E-08	6.74E-08	0.00E+00	8.71E-08
1047	587500.3	4154628	2.2E-07	4.83E-07	0.00E+00	7.03E-07	4.48E-07	4.89E-07	0.00E+00	9.37E-07	3.57E-08	1.10E-07	0.00E+00	1.46E-07	2.01E-08	6.88E-08	0.00E+00	8.89E-08
1048	587492.5	4154622	2.25E-07	4.92E-07	0.00E+00	7.17E-07	4.57E-07	4.99E-07	0.00E+00	9.55E-07	3.64E-08	1.12E-07	0.00E+00	1.48E-07	2.05E-08	7.02E-08	0.00E+00	9.07E-08
1049	587484.8	4154617	2.29E-07	5.01E-07	0.00E+00	7.30E-07	4.65E-07	5.07E-07	0.00E+00	9.72E-07	3.70E-08	1.14E-07	0.00E+00	1.51E-07	2.09E-08	7.14E-08	0.00E+00	9.23E-08
1050	587810.2	4154651	2.23E-07	4.9E-07	0.00E+00	7.13E-07	4.54E-07	4.96E-07	0.00E+00	9.50E-07	3.62E-08	1.11E-07	0.00E+00	1.48E-07	2.04E-08	6.97E-08	0.00E+00	9.01E-08
1051	587818.1	4154645	2.31E-07	5.06E-07	0.00E+00	7.37E-07	4.69E-07	5.12E-07	0.00E+00	9.81E-07	3.74E-08	1.15E-07	0.00E+00	1.52E-07	2.11E-08	7.21E-08	0.00E+00	9.31E-08
1052	587825.9	4154640	2.39E-07	5.23E-07	0.00E+00	7.61E-07	4.85E-07	5.29E-07	0.00E+00	1.01E-06	3.86E-08	1.19E-07	0.00E+00	1.58E-07	2.18E-08	7.45E-08	0.00E+00	9.62E-08
1053	587841.7	4154629	2.55E-07	5.58E-07	0.00E+00	8.13E-07	5.18E-07	5.65E-07	0.00E+00	1.08E-06	4.13E-08	1.27E-07	0.00E+00	1.68E-07	2.33E-08	7.95E-08	0.00E+00	1.03E-07
1054	587849.6	4154624	2.63E-07	5.77E-07	0.00E+00	8.40E-07	5.35E-07	5.84E-07	0.00E+00	1.12E-06	4.26E-08	1.31E-07	0.00E+00	1.74E-07	2.40E-08	8.22E-08	0.00E+00	1.06E-07
1055	587857.5	4154619	2.72E-07	5.96E-07	0.00E+00	8.69E-07	5.53E-07	6.04E-07	0.00E+00	1.16E-06	4.41E-08	1.36E-07	0.00E+00	1.80E-07	2.48E-08	8.50E-08	0.00E+00	1.10E-07
1056	587865.3	4154614	2.81E-07	6.17E-07	0.00E+00	8.98E-07	5.72E-07	6.24E-07	0.00E+00	1.20E-06	4.56E-08	1.40E-07	0.00E+00	1.86E-07	2.57E-08	8.78E-08	0.00E+00	1.14E-07
1057	587881.1	4154603	3.01E-07	6.59E-07	0.00E+00	9.60E-07	6.11E-07	6.67E-07	0.00E+00	1.28E-06	4.87E-08	1.50E-07	0.00E+00	1.99E-07	2.75E-08	9.39E-08	0.00E+00	1.21E-07
1058	587806.8	4154661	2.1E-07	4.6E-07	0.00E+00	6.69E-07	4.26E-07	4.65E-07	0.00E+00	8.91E-07	3.40E-08	1.05E-07	0.00E+00	1.39E-07	1.91E-08	6.55E-08	0.00E+00	8.46E-08
1059	587797.7	4154663	2.07E-07	4.55E-07	0.00E+00	6.62E-07	4.22E-07	4.60E-07	0.00E+00	8.82E-07	3.36E-08	1.03E-07	0.00E+00	1.37E-07	1.89E-08	6.48E-08	0.00E+00	8.37E-08
1060	587788.7	4154665	2.05E-07	4.49E-07	0.00E+00	6.55E-07	4.17E-07	4.55E-07	0.00E+00	8.72E-07	3.32E-08	1.02E-07	0.00E+00	1.35E-07	1.87E-08	6.40E-08	0.00E+00	8.28E-08
1061	587779.7	4154666	2.03E-07	4.44E-07	0.00E+00	6.47E-07	4.12E-07	4.50E-07	0.00E+00	8.62E-07	3.28E-08	1.01E-07	0.00E+00	1.34E-07	1.85E-08	6.33E-08	0.00E+00	8.18E-08
1062	587770.7	4154668	2E-07	4.39E-07	0.00E+00	6.39E-07	4.07E-07	4.44E-07	0.00E+00	8.51E-07	3.24E-08	9.98E-08	0.00E+00	1.32E-07	1.83E-08	6.25E-08	0.00E+00	8.08E-08
1063	587761.7	4154670	1.98E-07	4.33E-07	0.00E+00	6.31E-07	4.02E-07	4.38E-07	0.00E+00	8.40E-07	3.20E-08	9.85E-08	0.00E+00	1.31E-07	1.80E-08	6.17E-08	0.00E+00	7.97E-08
1064	587752.6	4154672	1.95E-07	4.27E-07	0.00E+00	6.22E-07	3.96E-07	4.32E-07	0.00E+00	8.29E-07	3.16E-08	9.72E-08	0.00E+00	1.29E-07	1.78E-08	6.08E-08	0.00E+00	7.86E-08
1065	587743.6	4154674	1.92E-07	4.21E-07	0.00E+00	6.13E-07	3.90E-07	4.26E-07	0.00E+00	8.16E-07	3.11E-08	9.57E-08	0.00E+00	1.27E-07	1.75E-08	5.99E-08	0.00E+00	7.75E-08
1066	587734.6	4154676	1.89E-07	4.14E-07	0.00E+00	6.03E-07	3.84E-07	4.19E-07	0.00E+00	8.04E-07	3.06E-08	9.42E-08	0.00E+00	1.25E-07	1.73E-08	5.90E-08	0.00E+00	7.63E-08
1067	587725.6	4154677	1.86E-07	4.08E-07	0.00E+00	5.94E-07	3.78E-07	4.13E-07	0.00E+00	7.91E-07	3.01E-08	9.28E-08	0.00E+00	1.23E-07	1.70E-08	5.81E-08	0.00E+00	7.51E-08
1068	587716.6	4154679	1.83E-07	4.02E-07	0.00E+00	5.85E-07	3.72E-07	4.07E-07	0.00E+00	7.79E-07	2.97E-08	9.14E-08	0.00E+00	1.21E-07	1.67E-08	5.72E-08	0.00E+00	7.39E-08
1069	587707.5	4154681	1.8E-07	3.95E-07	0.00E+00	5.76E-07	3.67E-07	4.00E-07	0.00E+00	7.67E-07	2.92E-08	8.99E-08	0.00E+00	1.19E-07	1.65E-08	5.63E-08	0.00E+00	7.28E-08
1070	587698.5	4154683	1.78E-07	3.89E-07	0.00E+00	5.67E-07	3.61E-07	3.94E-07	0.00E+00	7.55E-07	2.88E-08	8.85E-08	0.00E+00	1.17E-07	1.62E-08	5.54E-08	0.00E+00	7.16E-08
1071	587689.5	4154685	1.75E-07	3.83E-07	0.00E+00	5.58E-07	3.55E-07	3.88E-07	0.00E+00	7.43E-07	2.83E-08	8.71E-08	0.00E+00	1.15E-07	1.60E-08	5.45E-08	0.00E+00	7.05E-08
1072	587653.4	4154692	1.64E-07	3.59E-07	0.00E+00	5.23E-07	3.33E-07	3.64E-07	0.00E+00	6.97E-07	2.66E-08	8.18E-08	0.00E+00	1.08E-07	1.50E-08	5.12E-08	0.00E+00	6.62E-08
1073	587644.4	4154694	1.62E-07	3.54E-07	0.00E+00	5.16E-07	3.28E-07	3.58E-07	0.00E+00	6.87E-07	2.62E-08	8.05E-08	0.00E+00	1.07E-07	1.47E-08	5.04E-08	0.00E+00	6.52E-08
1074	587635.4	4154696	1.59E-07	3.49E-07	0.00E+00	5.08E-07	3.24E-07	3.53E-07	0.00E+00	6.77E-07	2.58E-08	7.94E-08	0.00E+00	1.05E-07	1.45E-08	4.97E-08	0.00E+00	6.42E-08
1075	587626.4	4154698	1.57E-07	3.44E-07	0.00E+00	5.01E-07	3.19E-07	3.48E-07	0.00E+00	6.67E-07	2.54E-08	7.83E-08	0.00E+00	1.04E-07	1.43E-08	4.90E-08	0.00E+00	6.33E-08
1076	587617.3	4154700	1.55E-07	3.39E-07	0.00E+00	4.94E-07	3.15E-07	3.44E-07	0.00E+00	6.58E-07	2.51E-08	7.72E-08	0.00E+00	1.02E-07	1.41E-08	4.83E-08	0.00E+00	6.25E-08
1077	587608.3	4154702	1.53E-07	3.35E-07	0.00E+00	4.88E-07	3.11E-07	3.39E-07	0.00E+00	6.50E-07	2.48E-08	7.62E-08	0.00E+00	1.01E-07	1.40E-08	4.77E-08	0.00E+00	6.17E-08
1078	587591.6	4154698	1.55E-07	3.39E-07	0.00E+00	4.94E-07	3.15E-07	3.43E-07	0.00E+00	6.58E-07	2.51E-08	7.72E-08	0.00E+00	1.02E-07	1.41E-08	4.83E-08	0.00E+00	6.25E-08
1079	587560.8	4154678	1.72E-07	3.76E-07	0.00E+00	5.48E-07	3.49E-07	3.81E-07	0.00E+00	7.29E-07	2.78E-08	8.55E-08	0.00E+00	1.13E-07	1.57E-08	5.36E-08	0.00E+00	6.92E-08
1080	587553.1	4154673	1.76E-07	3.86E-07	0.00E+00	5.62E-07	3.58E-07	3.91E-07	0.00E+00	7.49E-07	2.85E-08	8.78E-08	0.00E+00	1.16E-07	1.61E-08	5.50E-08	0.00E+00	7.10E-08
1081	587545.4	4154668	1.81E-07	3.96E-07	0.00E+00	5.77E-07	3.67E-07	4.01E-07	0.00E+00	7.68E-07	2.93E-08	9.01E-08	0.00E+00	1.19E-07	1.65E-08	5.64E-08	0.00E+00	7.29E-08
1082	587537.7	4154663	1.85E-07	4.06E-07	0.00E+00	5.91E-07	3.77E-07	4.11E-07	0.00E+00	7.87E-07	3.00E-08	9.24E-08	0.00E+00	1.22E-07	1.69E-08	5.78E-08	0.00E+00	7.47E-08
1083	587530	4154658	1.9E-07	4.16E-07	0.00E+00	6.06E-07	3.86E-07	4.21E-07	0.00E+00	8.07E-07	3.07E-08	9.47E-08	0.00E+00	1.25E-07	1.73E-08	5.93E-08	0.00E+00	7.66E-08
1084	587522.3	4154653	1.94E-07	4.26E-07	0.00E+00	6.21E-07	3.95E-07	4.31E-07	0.00E+00	8.26E-07	3.15E-08	9.69E-08	0.00E+00	1.28E-07	1.78E-08	6.07E-08	0.00E+00	7.84E-08
1085	587499.2	4154638	2.08E-07	4.55E-07	0.00E+00	6.63E-07	4.22E-07	4.61E-07	0.00E+00	8.82E-07	3.36E-08	1.03E-07	0.00E+00	1.37E-07	1.90E-08	6.48E-08	0.00E+00	8.38E-08
1086	587491.5	4154633	2.12E-07	4.64E-07	0.00E+00	6.76E-07	4.30E-07	4.70E-07	0.00E+00	9.00E-07	3.43E-08	1.06E-07	0.00E+00	1.40E-07	1.93E-08	6.61E-08	0.00E+00	8.54E-08
1087	587483.7	4154628	2.16E-07	4.72E-07	0.00E+00	6.88E-07	4.38E-07	4.78E-07	0.00E+00	9.16E-07	3.49E-08	1.07E-07	0.00E+00	1.42E-07	1.97E-08	6.73E-08	0.00E+00	8.70E-08
1088	587476	4154623	2.19E-07	4.8E-07	0.00E+00	7.00E-07	4.46E-07	4.86E-07	0.00E+00	9.32E-07	3.55E-08	1.09E-07	0.00E+00	1.45E-07	2.00E-08	6.84E-08	0.00E+00	8.84E-08
1089	587815.8	4154659	2.12E-07	4.64E-07	0.00E+00	6.76E-07	4.31E-07	4.70E-07	0.00E+00	9.01E-07	3.43E-08	1.06E-07	0.00E+00	1.40E-07	1.93E-08	6.61E-08	0.00E+00	8.55E-08
1090	587823.7	4154654	2.19E-07	4.79E-07	0.00E+00	6.98E-07	4.45E-07	4.85E-07	0.00E+00	9.30E-07	3.54E-08	1.09E-07	0.00E+00	1.44E-07	2.00E-08	6.83E-08	0.00E+00	8.82E-08
1091	587831.5	4154648	2.26E-07	4.95E-07	0.00E+00	7.21E-07	4.59E-07	5.01E-07	0.00E+00	9.60E-07	3.66E-08	1.13E-07	0.00E+00	1.49E-07	2.06E-08	7.05E-08	0.00E+00	9.11E-08
1092	587847.3	4154638	2.41E-07	5.27E-07	0.00E+00	7.68E-07	4.89E-07	5.34E-07	0.00E+00	1.02E-06	3.90E-08	1.20E-07	0.00E+00	1.59E-07	2.20E-08	7.51E-08	0.00E+00	9.71E-08
1093	587855.2	4154632	2.48E-07	5.44E-07	0.00E+00	7.93E-07	5.05E-07	5.51E-07	0.00E+00	1.06E-06	4.02E-08	1.24E-07	0.00E+00	1.64E-07	2.27E-08	7.75E-08	0.00E+00	1.00E-07
1094	587863	4154627	2.56E-07	5.62E-07	0.00E+00	8.19E-07	5.21E-07	5.69E-07	0.00E+00	1.09E-06	4.15E-08	1.28E-07	0.00E+00	1.69E-07	2.34E-08	8.01E-08	0.00E+00	1.03E-07
1095	587870.9	4154622	2.65E-07	5.81E-07	0.00E+00	8.45E-07	5.38E-07	5.88E-07	0.00E+00	1.13E-06	4.29E-08	1.32E-07	0.00E+00	1.75E-07	2.42E-08	8.27E-08	0.00E+00	1.07E-07
1096	587886.7	4154611	2.83E-07	6.19E-07	0.00E+00	9.02E-07	5.74E-07	6.27E-07	0.00E+00	1.20E-06	4.58E-08	1.41E-07	0.00E+00	1.87E-07	2.58E-08	8.82E-08	0.00E+00	1.14E-07
1097	587812.4	4154669	1.99E-07	4.37E-07	0.00E+00	6.36E-07	4.05E-07	4.42E-07	0.00E+00	8.47E-07	3.23E-08	9.93E-08	0.00E+00	1.32E-07	1.82E-08	6.22E-08	0.00E+00	8.04E-08

1098	587803.4	4154671	1.97E-07	4.32E-07	0.00E+00	6.29E-07	4.01E-07	4.38E-07	0.00E+00	8.38E-07	3.19E-08	9.83E-08	0.00E+00	1.30E-07	1.80E-08	6.16E-08	0.00E+00	7.96E-08
1099	587794.5	4154673	1.95E-07	4.28E-07	0.00E+00	6.23E-07	3.97E-07	4.33E-07	0.00E+00	8.29E-07	3.16E-08	9.73E-08	0.00E+00	1.29E-07	1.78E-08	6.09E-08	0.00E+00	7.87E-08
1100	587785.5	4154675	1.93E-07	4.23E-07	0.00E+00	6.16E-07	3.92E-07	4.28E-07	0.00E+00	8.20E-07	3.12E-08	9.62E-08	0.00E+00	1.27E-07	1.76E-08	6.02E-08	0.00E+00	7.78E-08
1101	587776.6	4154676	1.91E-07	4.18E-07	0.00E+00	6.09E-07	3.88E-07	4.23E-07	0.00E+00	8.11E-07	3.09E-08	9.51E-08	0.00E+00	1.26E-07	1.74E-08	5.95E-08	0.00E+00	7.69E-08
1102	587767.6	4154678	1.88E-07	4.13E-07	0.00E+00	6.01E-07	3.83E-07	4.18E-07	0.00E+00	8.01E-07	3.05E-08	9.39E-08	0.00E+00	1.24E-07	1.72E-08	5.88E-08	0.00E+00	7.60E-08
1103	587758.7	4154680	1.86E-07	4.07E-07	0.00E+00	5.93E-07	3.78E-07	4.12E-07	0.00E+00	7.90E-07	3.01E-08	9.26E-08	0.00E+00	1.23E-07	1.70E-08	5.80E-08	0.00E+00	7.50E-08
1104	587749.7	4154682	1.83E-07	4.01E-07	0.00E+00	5.84E-07	3.72E-07	4.06E-07	0.00E+00	7.78E-07	2.97E-08	9.13E-08	0.00E+00	1.21E-07	1.67E-08	5.72E-08	0.00E+00	7.39E-08
1105	587740.7	4154684	1.81E-07	3.96E-07	0.00E+00	5.76E-07	3.67E-07	4.00E-07	0.00E+00	7.67E-07	2.92E-08	9.00E-08	0.00E+00	1.19E-07	1.65E-08	5.64E-08	0.00E+00	7.28E-08
1106	587731.8	4154686	1.78E-07	3.9E-07	0.00E+00	5.68E-07	3.62E-07	3.95E-07	0.00E+00	7.56E-07	2.88E-08	8.87E-08	0.00E+00	1.18E-07	1.62E-08	5.55E-08	0.00E+00	7.18E-08
1107	587722.8	4154687	1.75E-07	3.84E-07	0.00E+00	5.60E-07	3.56E-07	3.89E-07	0.00E+00	7.45E-07	2.84E-08	8.74E-08	0.00E+00	1.16E-07	1.60E-08	5.47E-08	0.00E+00	7.07E-08
1108	587713.9	4154689	1.73E-07	3.79E-07	0.00E+00	5.51E-07	3.51E-07	3.83E-07	0.00E+00	7.34E-07	2.80E-08	8.61E-08	0.00E+00	1.14E-07	1.58E-08	5.39E-08	0.00E+00	6.97E-08
1109	587704.9	4154691	1.7E-07	3.73E-07	0.00E+00	5.43E-07	3.46E-07	3.77E-07	0.00E+00	7.23E-07	2.75E-08	8.48E-08	0.00E+00	1.12E-07	1.55E-08	5.31E-08	0.00E+00	6.86E-08
1110	587696	4154693	1.67E-07	3.67E-07	0.00E+00	5.34E-07	3.40E-07	3.71E-07	0.00E+00	7.12E-07	2.71E-08	8.35E-08	0.00E+00	1.11E-07	1.53E-08	5.23E-08	0.00E+00	6.76E-08
1111	587687	4154695	1.65E-07	3.61E-07	0.00E+00	5.26E-07	3.35E-07	3.66E-07	0.00E+00	7.01E-07	2.67E-08	8.22E-08	0.00E+00	1.09E-07	1.51E-08	5.15E-08	0.00E+00	6.65E-08
1112	587660.1	4154700	1.57E-07	3.45E-07	0.00E+00	5.02E-07	3.20E-07	3.49E-07	0.00E+00	6.69E-07	2.55E-08	7.85E-08	0.00E+00	1.04E-07	1.44E-08	4.91E-08	0.00E+00	6.35E-08
1113	587651.2	4154702	1.55E-07	3.4E-07	0.00E+00	4.95E-07	3.15E-07	3.44E-07	0.00E+00	6.59E-07	2.51E-08	7.73E-08	0.00E+00	1.02E-07	1.42E-08	4.84E-08	0.00E+00	6.26E-08
1114	587642.2	4154704	1.53E-07	3.35E-07	0.00E+00	4.88E-07	3.11E-07	3.39E-07	0.00E+00	6.50E-07	2.48E-08	7.62E-08	0.00E+00	1.01E-07	1.40E-08	4.77E-08	0.00E+00	6.17E-08
1115	587633.3	4154706	1.51E-07	3.3E-07	0.00E+00	4.81E-07	3.06E-07	3.34E-07	0.00E+00	6.41E-07	2.44E-08	7.52E-08	0.00E+00	9.96E-08	1.38E-08	4.71E-08	0.00E+00	6.08E-08
1116	587624.3	4154708	1.49E-07	3.26E-07	0.00E+00	4.75E-07	3.02E-07	3.30E-07	0.00E+00	6.32E-07	2.41E-08	7.42E-08	0.00E+00	9.82E-08	1.36E-08	4.64E-08	0.00E+00	6.00E-08
1117	587615.3	4154710	1.47E-07	3.22E-07	0.00E+00	4.69E-07	2.98E-07	3.26E-07	0.00E+00	6.24E-07	2.38E-08	7.32E-08	0.00E+00	9.70E-08	1.34E-08	4.58E-08	0.00E+00	5.92E-08
1118	587606.4	4154711	1.45E-07	3.18E-07	0.00E+00	4.63E-07	2.95E-07	3.22E-07	0.00E+00	6.16E-07	2.35E-08	7.23E-08	0.00E+00	9.58E-08	1.32E-08	4.53E-08	0.00E+00	5.85E-08
1119	587574.5	4154698	1.54E-07	3.38E-07	0.00E+00	4.93E-07	3.14E-07	3.42E-07	0.00E+00	6.56E-07	2.50E-08	7.69E-08	0.00E+00	1.02E-07	1.41E-08	4.82E-08	0.00E+00	6.23E-08
1120	587566.8	4154693	1.58E-07	3.47E-07	0.00E+00	5.05E-07	3.22E-07	3.51E-07	0.00E+00	6.73E-07	2.56E-08	7.89E-08	0.00E+00	1.05E-07	1.44E-08	4.94E-08	0.00E+00	6.39E-08
1121	587559.2	4154688	1.62E-07	3.56E-07	0.00E+00	5.18E-07	3.30E-07	3.60E-07	0.00E+00	6.90E-07	2.63E-08	8.09E-08	0.00E+00	1.07E-07	1.48E-08	5.07E-08	0.00E+00	6.55E-08
1122	587551.5	4154683	1.66E-07	3.65E-07	0.00E+00	5.31E-07	3.38E-07	3.69E-07	0.00E+00	7.08E-07	2.70E-08	8.30E-08	0.00E+00	1.10E-07	1.52E-08	5.20E-08	0.00E+00	6.72E-08
1123	587543.9	4154678	1.71E-07	3.74E-07	0.00E+00	5.45E-07	3.47E-07	3.79E-07	0.00E+00	7.26E-07	2.76E-08	8.51E-08	0.00E+00	1.13E-07	1.56E-08	5.33E-08	0.00E+00	6.89E-08
1124	587536.2	4154673	1.75E-07	3.83E-07	0.00E+00	5.58E-07	3.56E-07	3.88E-07	0.00E+00	7.44E-07	2.83E-08	8.72E-08	0.00E+00	1.16E-07	1.60E-08	5.46E-08	0.00E+00	7.06E-08
1125	587528.6	4154668	1.79E-07	3.93E-07	0.00E+00	5.72E-07	3.64E-07	3.98E-07	0.00E+00	7.62E-07	2.90E-08	8.93E-08	0.00E+00	1.18E-07	1.64E-08	5.59E-08	0.00E+00	7.23E-08
1126	587520.9	4154663	1.83E-07	4.02E-07	0.00E+00	5.86E-07	3.73E-07	4.07E-07	0.00E+00	7.80E-07	2.97E-08	9.15E-08	0.00E+00	1.21E-07	1.68E-08	5.73E-08	0.00E+00	7.40E-08
1127	587513.3	4154658	1.88E-07	4.11E-07	0.00E+00	5.99E-07	3.81E-07	4.16E-07	0.00E+00	7.98E-07	3.04E-08	9.36E-08	0.00E+00	1.24E-07	1.71E-08	5.86E-08	0.00E+00	7.57E-08
1128	587490.3	4154643	2E-07	4.38E-07	0.00E+00	6.37E-07	4.06E-07	4.43E-07	0.00E+00	8.49E-07	3.23E-08	9.96E-08	0.00E+00	1.32E-07	1.82E-08	6.23E-08	0.00E+00	8.06E-08
1129	587482.7	4154638	2.03E-07	4.46E-07	0.00E+00	6.49E-07	4.13E-07	4.51E-07	0.00E+00	8.65E-07	3.29E-08	1.01E-07	0.00E+00	1.34E-07	1.86E-08	6.35E-08	0.00E+00	8.21E-08
1130	587475	4154633	2.07E-07	4.53E-07	0.00E+00	6.60E-07	4.21E-07	4.59E-07	0.00E+00	8.80E-07	3.35E-08	1.03E-07	0.00E+00	1.37E-07	1.89E-08	6.46E-08	0.00E+00	8.35E-08
1131	587467.4	4154628	2.1E-07	4.61E-07	0.00E+00	6.71E-07	4.27E-07	4.66E-07	0.00E+00	8.93E-07	3.40E-08	1.05E-07	0.00E+00	1.39E-07	1.92E-08	6.56E-08	0.00E+00	8.48E-08
1132	587821.4	4154667	2.01E-07	4.41E-07	0.00E+00	6.42E-07	4.09E-07	4.46E-07	0.00E+00	8.55E-07	3.26E-08	1.00E-07	0.00E+00	1.33E-07	1.84E-08	6.28E-08	0.00E+00	8.12E-08
1133	587829.2	4154662	2.08E-07	4.55E-07	0.00E+00	6.62E-07	4.22E-07	4.60E-07	0.00E+00	8.82E-07	3.36E-08	1.03E-07	0.00E+00	1.37E-07	1.89E-08	6.48E-08	0.00E+00	8.37E-08
1134	587837.1	4154657	2.14E-07	4.69E-07	0.00E+00	6.83E-07	4.35E-07	4.75E-07	0.00E+00	9.10E-07	3.47E-08	1.07E-07	0.00E+00	1.41E-07	1.95E-08	6.68E-08	0.00E+00	8.63E-08
1135	587852.9	4154646	2.28E-07	4.99E-07	0.00E+00	7.26E-07	4.63E-07	5.05E-07	0.00E+00	9.68E-07	3.69E-08	1.13E-07	0.00E+00	1.50E-07	2.08E-08	7.11E-08	0.00E+00	9.18E-08
1136	587860.8	4154641	2.35E-07	5.15E-07	0.00E+00	7.49E-07	4.77E-07	5.21E-07	0.00E+00	9.98E-07	3.80E-08	1.17E-07	0.00E+00	1.55E-07	2.14E-08	7.33E-08	0.00E+00	9.47E-08
1137	587868.6	4154635	2.42E-07	5.31E-07	0.00E+00	7.73E-07	4.92E-07	5.37E-07	0.00E+00	1.03E-06	3.92E-08	1.21E-07	0.00E+00	1.60E-07	2.21E-08	7.56E-08	0.00E+00	9.77E-08
1138	587876.5	4154630	2.5E-07	5.48E-07	0.00E+00	7.97E-07	5.08E-07	5.54E-07	0.00E+00	1.06E-06	4.05E-08	1.25E-07	0.00E+00	1.65E-07	2.28E-08	7.80E-08	0.00E+00	1.01E-07
1139	587892.3	4154619	2.66E-07	5.83E-07	0.00E+00	8.49E-07	5.41E-07	5.90E-07	0.00E+00	1.13E-06	4.31E-08	1.33E-07	0.00E+00	1.76E-07	2.43E-08	8.30E-08	0.00E+00	1.07E-07
1140	587817.7	4154677	1.9E-07	4.15E-07	0.00E+00	6.05E-07	3.85E-07	4.20E-07	0.00E+00	8.06E-07	3.07E-08	9.45E-08	0.00E+00	1.25E-07	1.73E-08	5.92E-08	0.00E+00	7.65E-08
1141	587808.4	4154679	1.88E-07	4.11E-07	0.00E+00	5.99E-07	3.81E-07	4.16E-07	0.00E+00	7.97E-07	3.04E-08	9.35E-08	0.00E+00	1.24E-07	1.71E-08	5.86E-08	0.00E+00	7.57E-08
1142	587799.2	4154681	1.86E-07	4.07E-07	0.00E+00	5.92E-07	3.77E-07	4.12E-07	0.00E+00	7.89E-07	3.01E-08	9.25E-08	0.00E+00	1.23E-07	1.69E-08	5.79E-08	0.00E+00	7.49E-08
1143	587789.9	4154683	1.84E-07	4.02E-07	0.00E+00	5.86E-07	3.73E-07	4.07E-07	0.00E+00	7.80E-07	2.97E-08	9.15E-08	0.00E+00	1.21E-07	1.68E-08	5.73E-08	0.00E+00	7.41E-08
1144	587780.7	4154685	1.81E-07	3.98E-07	0.00E+00	5.79E-07	3.69E-07	4.02E-07	0.00E+00	7.71E-07	2.94E-08	9.04E-08	0.00E+00	1.20E-07	1.66E-08	5.66E-08	0.00E+00	7.32E-08
1145	587771.4	4154687	1.79E-07	3.93E-07	0.00E+00	5.72E-07	3.64E-07	3.98E-07	0.00E+00	7.62E-07	2.90E-08	8.93E-08	0.00E+00	1.18E-07	1.64E-08	5.59E-08	0.00E+00	7.23E-08
1146	587762.2	4154689	1.77E-07	3.87E-07	0.00E+00	5.64E-07	3.59E-07	3.92E-07	0.00E+00	7.51E-07	2.86E-08	8.81E-08	0.00E+00	1.17E-07	1.61E-08	5.52E-08	0.00E+00	7.13E-08
1147	587752.9	4154691	1.74E-07	3.82E-07	0.00E+00	5.56E-07	3.54E-07	3.86E-07	0.00E+00	7.40E-07	2.82E-08	8.68E-08	0.00E+00	1.15E-07	1.59E-08	5.44E-08	0.00E+00	7.03E-08
1148	587743.7	4154693	1.72E-07	3.76E-07	0.00E+00	5.48E-07	3.49E-07	3.81E-07	0.00E+00	7.30E-07	2.78E-08	8.56E-08	0.00E+00	1.13E-07	1.57E-08	5.36E-08	0.00E+00	6.93E-08
1149	587734.4	4154695	1.69E-07	3.71E-07	0.00E+00	5.40E-07	3.44E-07	3.76E-07	0.00E+00	7.20E-07	2.74E-08	8.44E-08	0.00E+00	1.12E-07	1.55E-08	5.29E-08	0.00E+00	6.83E-08
1150	587725.1	4154696	1.67E-07	3.66E-07	0.00E+00	5.32E-07	3.39E-07	3.70E-07	0.00E+00	7.09E-07	2.70E-08	8.32E-08	0.00E+00	1.10E-07	1.52E-08	5.21E-08	0.00E+00	6.73E-08
1151	587715.9	4154698	1.64E-07	3.6E-07	0.00E+00	5.24E-07	3.34E-07	3.65E-07	0.00E+00	6.98E-07	2.66E-08	8.19E-08	0.00E+00	1.09E-07	1.50E-08	5.13E-08	0.00E+00	6.63E-08
1152	587706.6	4154700	1.62E-07	3.55E-07	0.00E+00	5.16E-07	3.29E-07	3.59E-07	0.00E+00	6.88E-07	2.62E-08	8.07E-08	0.00E+00	1.07E-07	1.48E-08	5.05E-08	0.00E+00	6.53E-08
1153	587697.4	4154702	1.59E-07	3.49E-07	0.00E+00	5.08E-07	3.24E-07	3.53E-07	0.00E+00	6.77E-07	2.58E-08	7.94E-08	0.00E+00	1.05E-07	1.45E-08	4.97E-08	0.00E+00	6.43E-08
1154	587688.1	4154704	1.57E-07	3.44E-07	0.00E+00	5.01E-07	3.19E-07	3.48E-07	0.00E+00	6.67E-07	2.54E-08	7.82E-08	0.00E+00	1.04E-07	1.43E-08	4.90E-08	0.00E+00	6.33E-08
1155	587678.9	4154706	1.54E-07	3.38E-07	0.00E+00	4.93E-07	3.14E-07	3.42E-07	0.00E+00	6.56E-07	2.50E-08	7.70E-08	0.00E+00	1.02E-07	1.41E-08	4.82E-08	0.00E+00	6.23E-08
1156	587669.6	4154708	1.52E-07	3.33E-07	0.00E+00	4.85E-07	3.09E-07	3.37E-07	0.00E+00	6.46E-07	2.46E-08	7.58E-08	0.00E+00	1.00E-07	1.39E-08	4.74E-08	0.00E+00	6.13E-08
1157	587660.3	4154710	1.5E-07	3.28E-07	0.00E+00	4.78E-07	3.04E-07	3.32E-07	0.00E+00	6.36E-07	2.42E-08	7.46E-08	0.00E+00	9.89E-08	1.37E-08	4.67E-08	0.00E+00	6.04E-08
1158	587651.1	4154712	1.47E-07	3.23E-07	0.00E+00	4.71E-07	3.00E-07	3.27E-07	0.00E+00	6.27E-07	2.39E-08	7.35E-08	0.00E+00	9.74E-08	1.35E-08	4.60E-08	0.00E+00	5.95E-08
1159	587641.8	4154714	1.45E-07	3.18E-07	0.00E+00	4.64E-07	2.95E-07	3.22E-07	0.00E+00	6.18E-07	2.35E-08	7.25E-08	0.00E+00	9.60E-08	1.33E-08	4.54E-08	0.00E+00	5.86E-08
1160	587632.6	4154715	1.43E-07	3.14E-07	0.00E+00	4.57E-07	2.91E-07	3.18E-07	0.00E+00	6.09E-07	2.32E-08	7.14E-08	0.00E+00	9.46E-08	1.31E-08	4.47E-08	0.00E+00	5.78E-08
1161	587623.3	4154717	1.41E-07	3.1E-07	0.00E+00	4.51E-07	2.87E-07	3.14E-07	0.00E+00	6.01E-07	2.29E-08	7.05E-08	0.00E+00	9.34E-08	1.29E-08	4.41E-08	0.00E+00	5.70E-08
1162	587614.1	4154719	1.4E-07	3.06E-07	0.00E+00	4.45E-07	2.84E-07	3.10E-07	0.00E+00	5.93E-07	2.26E-08	6.96E-08	0.00E+00	9.22E-08	1.27E-08	4.36E-08	0.00E+00	5.63E-08
1163	587587.7	4154718	1.4E-07	3.06E-07	0.00E+00	4.46E-07	2.84E-07	3.10E-07	0.00E+00	5.93E-07	2.26E-08	6.96E-08	0.00E+00	9.22E-08	1.27E-08	4.36E-08	0.00E+00	5.63E-08
1164	587579.7	4154713	1.43E-07	3.14E-07	0.00E+00	4.57E-07	2.91E-07	3.18E-07	0.00E+00	6.09E-07	2.32E-08	7.14E-08	0.00E+00	9.46E-08	1.31E-08	4.47E-08	0.00E+00	5.78E-08
1165	587571.8	4154707	1.47E-07	3.22E-07	0.00E+00	4.69E-07	2.98E-07	3.26E-07	0.00E+00	6.24E-07	2.38E-08	7.32E-08	0.00E+00	9.70E-08	1.34E-08	4.58E-08	0.00E+00	5.92E-08
1166	587563.9	4154702	1.51E-07	3.3E-07	0.00E+00	4.81E-07	3.06E-07	3.34E-07	0.00E+00	6.40E-07	2.44E-08	7.51E-08	0.00E+00	9.95E-08	1.38E-08	4.70E-08	0.00E+00	6.08E-08
1167	587556	4154697	1.55E-07	3.39E-07	0.00E+00	4.93E-07	3.14E-07	3.43E-07	0.00E+00	6.57E-07	2.50E-08	7.71E-08	0.00E+00	1.02E-07	1.41E-08	4.83E-08	0.00E+00	6.24E-08
1168	587548.1	4154692	1.59E-07	3.48E-07	0.00E+00	5.06E-07	3.22E-07	3.52E-07	0.00E+00	6.74E-07	2.57E-08	7.91E-08	0.00E+00	1.05E-07	1.45E-08	4.95E-08	0.00E+00	6.40E-08
1169	587540.2	4154687	1.63E-07	3.56E-07	0.00E+00	5.19E-07	3.31E-07	3.61E-07	0.00E+00	6.91E-07	2.63E-08	8.11E-08	0.00E+00	1.07E-07	1.49E-08	5.08E-08	0.00E+00	6.56E-08
1170	587532.3	4154682	1.67E-07	3.66E-07	0.00E+00	5.32E-07	3.39E-07	3.70E-07	0.00E+00	7.09E-07	2.70E-08	8.31E-08	0.00E+00	1.10E-07	1.52E-08	5.21E-08	0.00E+00	6.73E-08
1171	587524.4	4154676	1.71E-07	3.75E-07	0.00E+00	5.45E-07	3.47E-07	3.79E-07	0.00E+00	7.26E-07	2.77E-08	8.52E-08	0.00E+00	1.13E-07	1.56E-08	5.34E-08	0.00E+00	6.90E-08
1172	587516.5	4154671	1.75E-07	3.84E-07	0.00E+00	5.59E-07	3.56E-07	3.88E-07	0.00E+00	7.44E-07	2.83E-08	8.73E-08	0.00E+00	1.16E-07	1.60E-08	5.46E-08	0.00E+00	7.06E-08
1173	587508.6	4154666	1.79E-07	3.92E-07	0.00E+00	5.72E-07	3.64E-07	3.97E-07	0.00E+00	7.61E-07	2.90E-08	8.93E-08	0.00E+00	1.18E-07	1.64E-08	5.59E-08	0.00E+00	7.23E-08
1174	587484.9	4154651	1.91E-07	4.18E-07	0.00E+00	6.09E-07	3.88E-07	4.23E-07	0.00E+00	8.11E-07	3.09E-08	9.51E-08	0.00E+00	1.26E-07	1.74E-08	5.95E-08	0.00E+00	7.69E-08
1175	587477	4154645	1.94E-07	4.26E-07	0.00E+00	6.20E-07	3.95E-07	4.31E-07	0.00E+00	8.26E-07	3.15E-08	9.69E-08	0.00E+00	1.28E-07	1.77E-08	6.06E-08	0.00E+00	7.84E-08
1176	587469.1	4154640	1.98E-07	4.33E-07	0.00E+00	6.31E-07	4.02E-07	4.38E-07	0.00E+00	8.40E-07	3.20E-08	9.85E-08	0.00E+00	1.31E-07	1.80E-08	6.17E-08	0.00E+00	7.97E-08
1177	587461.2	4154635	2.01E-07	4.4E-07	0.00E+00	6.41E-07	4.08E-07	4.45E-07	0.00E+00	8.54E-07	3.25E-08	1.00E-07	0.00E+00	1.33E-07	1.83E-08	6.27E-08	0.00E+00	8.10E-08
1178	587827	4154676	1.91E-07	4.19E-07	0.00E+00	6.11E-07	3.89E-07	4.25E-07	0.00E+00	8.14E-07	3.10E-08	9.54E-08	0.00E+00	1.26E-07	1.75E-08	5.97E-08	0.00E+00	7.72E-08
1179	587834.8	4154670	1.97E-07	4.32E-07	0.00E+00	6.29E-07	4.01E-07	4.37E-07	0.00E+00	8.38E-07	3.19E-08	9.83E-08	0.00E+00	1.30E-07	1.80E-08	6.16E-08	0.00E+00	7.96E-08
1180	587842.7	4154665	2.03E-07	4.45E-07	0.00E+00	6.48E-07	4.13E-07	4.51E-07	0.00E+00	8.64E-07	3.29E-08	1.01E-07	0.00E+00	1.34E-07	1.85E-08	6.34E-08	0.00E+00	8.20E-08
1181	587858.5	4154654	2.16E-07	4.73E-07	0.00E+00	6.88E-07	4.38E-07	4.78E-07	0.00E+00	9.17E-07	3.49E-08	1.08E-07	0.00E+00	1.42E-07	1.97E-08	6.73E-08	0.00E+00	8.70E-08
1182	587866.3	4154649	2.22E-07	4.87E-07	0.00E+00	7.09E-07	4.52E-07	4.93E-07	0.00E+00	9.45E-07	3.60E-08	1.11E-07	0.00E+00	1.47E-07	2.03E-08	6.94E-08	0.00E+00	8.97E-08
1183	587874.2	4154644	2.29E-07	5.02E-07	0.00E+00	7.31E-07	4.66E-07	5.08E-07	0.00E+00	9.74E-07	3.71E-08	1.14E-07	0.00E+00	1.51E-07	2.09E-08	7.15E-08	0.00E+00	9.24E-08
1184	587882.1	4154638	2.36E-07	5.17E-07	0.00E+00	7.53E-07	4.80E-07	5.24E-07	0.00E+00	1.00E-06	3.82E-08	1.18E-07	0.00E+00	1.56E-07	2.16E-08	7.37E-08	0.00E+00	9.53E-08
1185	587897.9	4154628	2.51E-07	5.5E-07	0.00E+00	8.01E-07	5.10E-07	5.56E-07	0.00E+00	1.07E-06	4.06E-08	1.25E-07	0.00E+00	1.66E-07	2.29E-08	7.83E-08	0.00E+00	1.01E-07
1186	587771.8	4154423	3.04E-06	6.67E-06	0.00E+00	9.71E-06	6.18E-06	6.75E-06	0.00E+00	1.29E-05	4.93E-07	1.52E-06	0.00E+00	2.01E-06	2.78E-07	9.50E-07	0.00E+00	1.23E-06
1187	587779.5	4154418	3.2E-06	7.01E-06	0.00E+00	1.02E-05	6.50E-06	7.09E-06	0.00E+00	1.36E-05	5.18E-07	1.59E-06	0.00E+00	2.11E-06	2.92E-07	9.98E-07	0.00E+00	1.29E-06
1188	587787.2	4154413	3.33E-06	7.31E-06	0.00E+00	1.06E-05	6.78E-06	7.39E-06	0.00E+00	1.42E-05	5.40E-07	1.66E-06	0.00E+00	2.20E-06	3.04E-07	1.04E-06	0.00E+00	1.34E-06
1189	587794.9	4154407	3.45E-06	7.56E-06	0.00E+00	1.10E-05	7.01E-06	7.65E-06	0.00E+00	1.47E-05	5.58E-07	1.72E-06	0.00E+00	2.28E-06	3.15E-07	1.08E-06	0.00E+00	1.39E-06
1190	587802.6	4154402	3.54E-06	7.76E-06	0.00E+00	1.13E-05	7.19E-06	7.85E-06	0.00E+00	1.50E-05	5.73E-07	1.76E-06	0.00E+00	2.34E-06	3.23E-07	1.10E-06	0.00E+00	1.43E-06
1191	587810.3	4154397	3.61E-06	7.9E-06	0.00E+00	1.15E-05	7.33E-06	8.00E-06	0.00E+00	1.53E-05	5.84E-07	1.80E-06	0.00E+00	2.38E-06	3.29E-07	1.13E-06	0.00E+00	1.46E-06
1192	587818	4154392	3.65E-06	7.99E-06	0.00E+00	1.16E-05	7.41E-06	8.09E-06	0.00E+00	1.55E-05	5.90E-07	1.82E-06	0.00E+00	2.41E-06	3.33E-07	1.14E-06	0.00E+00	1.47E-06
1193	587777.4	4154432	2.53E-06	5.54E-06	0.00E+00	8.06E-06	5.14E-06	5.60E-06	0.00E+00	1.07E-05	4.09E-07	1.26E-06	0.00E+00	1.67E-06	2.31E-07	7.89E-07	0.00E+00	1.02E-06
1194	587785.1	4154426	2.66E-06	5.83E-06	0.00E+00	8.49E-06	5.40E-06	5.90E-06	0.00E+00	1.13E-05	4.31E-07	1.33E-06	0.00E+00	1.76E-06	2.43E-07	8.30E-07	0.00E+00	1.07E-06
1195	587792.8	4154421	2.78E-06	6.09E-06	0.00E+00	8.87E-06	5.65E-06	6.16E-06	0.00E+00	1.18E-05	4.50E-07	1.39E-06	0.00E+00	1.84E-06	2.54E-07	8.67E-07	0.00E+00	1.12E-06
1196	587800.5	4154416	2.88E-06	6.32E-06	0.00E+00	9.20E-06	5.86E-06	6.39E-06	0.00E+00	1.23E-05	4.67E-07	1.44E-06	0.00E+00	1.90E-06	2.63E-07	9.00E-07	0.00E+00	1.16E-06
1197	587808.2	4154410	2.97E-06	6.51E-06	0.00E+00	9.48E-06	6.04E-06	6.59E-06	0.00E+00	1.26E-05	4.81E-07	1.48E-06	0.00E+00	1.96E-06	2.71E-07	9.27E-07	0.00E+00	1.20E-06
1198	587815.9	4154405	3.04E-06	6.66E-06	0.00E+00	9.69E-06	6.17E-06	6.74E-06	0.00E+00	1.29E-05	4.92E-07	1.51E-06	0.00E+00	2.01E-06	2.77E-07	9.48E-07	0.00E+00	1.23E-06
1199	587823.6	4154400	3.09E-06	6.76E-06	0.00E+00	9.85E-06	6.27E-06	6.84E-06	0.00E+00	1.31E-05	5.00E-07	1.54E-06	0.00E+00	2.04E-06	2.82E-07	9.63E-07	0.00E+00	1.24E-06
1200	587783.1	4154440	2.13E-06	4.66E-06	0.00E+00	6.79E-06	4.32E-06	4.72E-06	0.00E+00	9.04E-06	3.44E-07	1.06E-06	0.00E+00	1.41E-06	1.94E-07	6.64E-07	0.00E+00	8.58E-07
1201	587790.8	4154435	2.24E-06	4.91E-06	0.00E+00	7.15E-06	4.55E-06	4.97E-06	0.00E+00	9.52E-06	3.63E-07	1.12E-06	0.00E+00	1.48E-06	2.05E-07	6.99E-07	0.00E+00	9.04E-07
1202	587798.5	4154429	2.34E-06	5.14E-06	0.00E+00	7.48E-06	4.77E-06	5.20E-06	0.00E+00	9.97E-06	3.80E-07	1.17E-06	0.00E+00	1.55E-06	2.14E-07	7.32E-07	0.00E+00	9.46E-07
1203	587806.2	4154424	2.44E-06	5.34E-06	0.00E+00	7.78E-06	4.96E-06	5.41E-06	0.00E+00	1.04E-05	3.95E-07	1.22E-06	0.00E+00	1.61E-06	2.23E-07	7.61E-07	0.00E+00	9.84E-07
1204	587813.9	4154419	2.52E-06	5.52E-06	0.00E+00	8.04E-06	5.12E-06	5.59E-06	0.00E+00	1.07E-05	4.08E-07	1.26E-06	0.00E+00	1.66E-06	2.30E-07	7.86E-07	0.00E+00	1.02E-06
1205	587821.6	4154413	2.58E-06	5.66E-06	0.00E+00	8.25E-06	5.25E-06	5.73E-06	0.00E+00	1.10E-05	4.19E-07	1.29E-06	0.00E+00	1.71E-06	2.36E-07	8.07E-07	0.00E+00	1.04E-06
1206	587829.3	4154408	2.64E-06	5.78E-06	0.00E+00	8.41E-06	5.36E-06	5.85E-06	0.00E+00	1.12E-05	4.27E-07	1.31E-06	0.00E+00	1.74E-06	2.41E-07	8.23E-07	0.00E+00	1.06E-06
1207	587788.7	4154448	1.81E-06	3.97E-06	0.00E+00	5.79E-06	3.69E-06	4.02E-06	0.00E+00	7.71E-06	2.94E-07	9.04E-07	0.00E+00	1.20E-06	1.66E-07	5.66E-07	0.00E+00	7.32E-07

1208	587796.4	4154443	1.91E-06	4.19E-06	0.00E+00	6.10E-06	3.88E-06	4.24E-06	0.00E+00	8.12E-06	3.09E-07	9.52E-07	0.00E+00	1.26E-06	1.74E-07	5.96E-07	0.00E+00	7.71E-07
1209	587804.1	4154438	2E-06	4.38E-06	0.00E+00	6.39E-06	4.07E-06	4.44E-06	0.00E+00	8.51E-06	3.24E-07	9.97E-07	0.00E+00	1.32E-06	1.83E-07	6.25E-07	0.00E+00	8.07E-07
1210	587794.3	4154456	1.56E-06	3.42E-06	0.00E+00	4.99E-06	3.18E-06	3.47E-06	0.00E+00	6.64E-06	2.53E-07	7.79E-07	0.00E+00	1.03E-06	1.43E-07	4.88E-07	0.00E+00	6.30E-07
1211	587802	4154451	1.65E-06	3.61E-06	0.00E+00	5.25E-06	3.34E-06	3.65E-06	0.00E+00	6.99E-06	2.66E-07	8.20E-07	0.00E+00	1.09E-06	1.50E-07	5.14E-07	0.00E+00	6.64E-07
1212	587809.7	4154446	1.72E-06	3.78E-06	0.00E+00	5.50E-06	3.50E-06	3.82E-06	0.00E+00	7.33E-06	2.79E-07	8.60E-07	0.00E+00	1.14E-06	1.57E-07	5.38E-07	0.00E+00	6.96E-07
1213	587800	4154465	1.36E-06	2.98E-06	0.00E+00	4.34E-06	2.76E-06	3.01E-06	0.00E+00	5.78E-06	2.20E-07	6.78E-07	0.00E+00	8.98E-07	1.24E-07	4.24E-07	0.00E+00	5.48E-07
1214	587807.7	4154459	1.43E-06	3.14E-06	0.00E+00	4.57E-06	2.91E-06	3.17E-06	0.00E+00	6.08E-06	2.32E-07	7.13E-07	0.00E+00	9.45E-07	1.31E-07	4.47E-07	0.00E+00	5.77E-07
1215	587815.4	4154454	1.5E-06	3.28E-06	0.00E+00	4.78E-06	3.05E-06	3.32E-06	0.00E+00	6.37E-06	2.43E-07	7.47E-07	0.00E+00	9.90E-07	1.37E-07	4.68E-07	0.00E+00	6.05E-07
1216	587838.5	4154438	1.68E-06	3.67E-06	0.00E+00	5.35E-06	3.41E-06	3.72E-06	0.00E+00	7.13E-06	2.71E-07	8.36E-07	0.00E+00	1.11E-06	1.53E-07	5.23E-07	0.00E+00	6.76E-07
1217	587846.2	4154433	1.72E-06	3.78E-06	0.00E+00	5.50E-06	3.50E-06	3.82E-06	0.00E+00	7.32E-06	2.79E-07	8.59E-07	0.00E+00	1.14E-06	1.57E-07	5.38E-07	0.00E+00	6.95E-07
1218	587805.6	4154473	1.19E-06	2.61E-06	0.00E+00	3.81E-06	2.42E-06	2.65E-06	0.00E+00	5.07E-06	1.93E-07	5.94E-07	0.00E+00	7.88E-07	1.09E-07	3.72E-07	0.00E+00	4.81E-07
1219	587813.3	4154468	1.25E-06	2.75E-06	0.00E+00	4.00E-06	2.55E-06	2.78E-06	0.00E+00	5.33E-06	2.03E-07	6.25E-07	0.00E+00	8.28E-07	1.14E-07	3.91E-07	0.00E+00	5.06E-07
1220	587821	4154462	1.31E-06	2.88E-06	0.00E+00	4.19E-06	2.67E-06	2.91E-06	0.00E+00	5.58E-06	2.13E-07	6.55E-07	0.00E+00	8.68E-07	1.20E-07	4.10E-07	0.00E+00	5.30E-07
1221	587844.1	4154447	1.47E-06	3.23E-06	0.00E+00	4.70E-06	2.99E-06	3.27E-06	0.00E+00	6.26E-06	2.38E-07	7.34E-07	0.00E+00	9.72E-07	1.34E-07	4.60E-07	0.00E+00	5.94E-07
1222	587851.8	4154441	1.52E-06	3.32E-06	0.00E+00	4.84E-06	3.08E-06	3.36E-06	0.00E+00	6.44E-06	2.45E-07	7.56E-07	0.00E+00	1.00E-06	1.38E-07	4.73E-07	0.00E+00	6.12E-07
1223	587811.3	4154481	1.05E-06	2.31E-06	0.00E+00	3.37E-06	2.14E-06	2.34E-06	0.00E+00	4.48E-06	1.71E-07	5.26E-07	0.00E+00	6.96E-07	9.63E-08	3.29E-07	0.00E+00	4.25E-07
1224	587819	4154476	1.11E-06	2.43E-06	0.00E+00	3.54E-06	2.25E-06	2.46E-06	0.00E+00	4.71E-06	1.79E-07	5.52E-07	0.00E+00	7.32E-07	1.01E-07	3.46E-07	0.00E+00	4.47E-07
1225	587826.7	4154471	1.16E-06	2.54E-06	0.00E+00	3.70E-06	2.36E-06	2.57E-06	0.00E+00	4.93E-06	1.88E-07	5.78E-07	0.00E+00	7.66E-07	1.06E-07	3.62E-07	0.00E+00	4.68E-07
1226	587849.8	4154455	1.3E-06	2.85E-06	0.00E+00	4.15E-06	2.65E-06	2.89E-06	0.00E+00	5.53E-06	2.11E-07	6.49E-07	0.00E+00	8.60E-07	1.19E-07	4.06E-07	0.00E+00	5.25E-07
1227	587857.5	4154450	1.34E-06	2.94E-06	0.00E+00	4.28E-06	2.73E-06	2.98E-06	0.00E+00	5.70E-06	2.17E-07	6.69E-07	0.00E+00	8.86E-07	1.23E-07	4.19E-07	0.00E+00	5.41E-07
1228	587816.9	4154489	9.39E-07	2.06E-06	0.00E+00	3.00E-06	1.91E-06	2.08E-06	0.00E+00	3.99E-06	1.52E-07	4.68E-07	0.00E+00	6.20E-07	8.57E-08	2.93E-07	0.00E+00	3.79E-07
1229	587824.6	4154484	9.85E-07	2.16E-06	0.00E+00	3.14E-06	2.00E-06	2.19E-06	0.00E+00	4.19E-06	1.60E-07	4.91E-07	0.00E+00	6.51E-07	8.99E-08	3.08E-07	0.00E+00	3.97E-07
1230	587832.3	4154479	1.03E-06	2.26E-06	0.00E+00	3.29E-06	2.09E-06	2.29E-06	0.00E+00	4.38E-06	1.67E-07	5.14E-07	0.00E+00	6.81E-07	9.41E-08	3.22E-07	0.00E+00	4.16E-07
1231	587855.4	4154463	1.16E-06	2.54E-06	0.00E+00	3.69E-06	2.35E-06	2.57E-06	0.00E+00	4.92E-06	1.87E-07	5.77E-07	0.00E+00	7.64E-07	1.06E-07	3.61E-07	0.00E+00	4.67E-07
1232	587863.1	4154458	1.19E-06	2.62E-06	0.00E+00	3.81E-06	2.43E-06	2.65E-06	0.00E+00	5.08E-06	1.93E-07	5.95E-07	0.00E+00	7.89E-07	1.09E-07	3.73E-07	0.00E+00	4.82E-07
1233	587822.5	4154498	8.41E-07	1.84E-06	0.00E+00	2.68E-06	1.71E-06	1.87E-06	0.00E+00	3.57E-06	1.36E-07	4.19E-07	0.00E+00	5.55E-07	7.68E-08	2.63E-07	0.00E+00	3.39E-07
1234	587830.2	4154492	8.81E-07	1.93E-06	0.00E+00	2.81E-06	1.79E-06	1.96E-06	0.00E+00	3.75E-06	1.43E-07	4.39E-07	0.00E+00	5.82E-07	8.05E-08	2.75E-07	0.00E+00	3.56E-07
1235	587837.9	4154487	9.21E-07	2.02E-06	0.00E+00	2.94E-06	1.87E-06	2.04E-06	0.00E+00	3.92E-06	1.49E-07	4.59E-07	0.00E+00	6.09E-07	8.41E-08	2.88E-07	0.00E+00	3.72E-07
1236	587861	4154471	1.03E-06	2.27E-06	0.00E+00	3.30E-06	2.10E-06	2.30E-06	0.00E+00	4.40E-06	1.68E-07	5.16E-07	0.00E+00	6.83E-07	9.45E-08	3.23E-07	0.00E+00	4.17E-07
1237	587868.7	4154466	1.07E-06	2.34E-06	0.00E+00	3.41E-06	2.17E-06	2.37E-06	0.00E+00	4.54E-06	1.73E-07	5.33E-07	0.00E+00	7.06E-07	9.75E-08	3.34E-07	0.00E+00	4.31E-07
1238	587828.2	4154506	7.58E-07	1.66E-06	0.00E+00	2.42E-06	1.54E-06	1.68E-06	0.00E+00	3.22E-06	1.23E-07	3.78E-07	0.00E+00	5.00E-07	6.92E-08	2.37E-07	0.00E+00	3.06E-07
1239	587835.9	4154501	7.93E-07	1.74E-06	0.00E+00	2.53E-06	1.61E-06	1.76E-06	0.00E+00	3.37E-06	1.28E-07	3.95E-07	0.00E+00	5.24E-07	7.24E-08	2.48E-07	0.00E+00	3.20E-07
1240	587843.6	4154495	8.28E-07	1.82E-06	0.00E+00	2.64E-06	1.68E-06	1.84E-06	0.00E+00	3.52E-06	1.34E-07	4.13E-07	0.00E+00	5.47E-07	7.56E-08	2.59E-07	0.00E+00	3.34E-07
1241	587866.7	4154480	9.3E-07	2.04E-06	0.00E+00	2.97E-06	1.89E-06	2.06E-06	0.00E+00	3.95E-06	1.51E-07	4.63E-07	0.00E+00	6.14E-07	8.49E-08	2.90E-07	0.00E+00	3.75E-07
1242	587874.4	4154474	9.6E-07	2.1E-06	0.00E+00	3.07E-06	1.95E-06	2.13E-06	0.00E+00	4.08E-06	1.56E-07	4.79E-07	0.00E+00	6.34E-07	8.77E-08	3.00E-07	0.00E+00	3.88E-07
1243	587833.8	4154514	6.86E-07	1.5E-06	0.00E+00	2.19E-06	1.39E-06	1.52E-06	0.00E+00	2.92E-06	1.11E-07	3.42E-07	0.00E+00	4.53E-07	6.27E-08	2.14E-07	0.00E+00	2.77E-07
1244	587841.5	4154509	7.17E-07	1.57E-06	0.00E+00	2.29E-06	1.46E-06	1.59E-06	0.00E+00	3.05E-06	1.16E-07	3.58E-07	0.00E+00	4.74E-07	6.55E-08	2.24E-07	0.00E+00	2.89E-07
1245	587849.2	4154504	7.48E-07	1.64E-06	0.00E+00	2.39E-06	1.52E-06	1.66E-06	0.00E+00	3.18E-06	1.21E-07	3.73E-07	0.00E+00	4.94E-07	6.83E-08	2.34E-07	0.00E+00	3.02E-07
1246	587872.3	4154488	8.39E-07	1.84E-06	0.00E+00	2.68E-06	1.71E-06	1.86E-06	0.00E+00	3.57E-06	1.36E-07	4.18E-07	0.00E+00	5.54E-07	7.66E-08	2.62E-07	0.00E+00	3.39E-07
1247	587880	4154483	8.67E-07	1.9E-06	0.00E+00	2.77E-06	1.76E-06	1.92E-06	0.00E+00	3.69E-06	1.40E-07	4.32E-07	0.00E+00	5.73E-07	7.92E-08	2.71E-07	0.00E+00	3.50E-07
1248	587839.5	4154522	6.24E-07	1.37E-06	0.00E+00	1.99E-06	1.27E-06	1.39E-06	0.00E+00	2.65E-06	1.01E-07	3.11E-07	0.00E+00	4.12E-07	5.70E-08	1.95E-07	0.00E+00	2.52E-07
1249	587847.2	4154517	6.52E-07	1.43E-06	0.00E+00	2.08E-06	1.32E-06	1.45E-06	0.00E+00	2.77E-06	1.06E-07	3.25E-07	0.00E+00	4.31E-07	5.95E-08	2.03E-07	0.00E+00	2.63E-07
1250	587854.9	4154512	6.79E-07	1.49E-06	0.00E+00	2.17E-06	1.38E-06	1.51E-06	0.00E+00	2.89E-06	1.10E-07	3.39E-07	0.00E+00	4.49E-07	6.20E-08	2.12E-07	0.00E+00	2.74E-07
1251	587878	4154496	7.61E-07	1.67E-06	0.00E+00	2.43E-06	1.55E-06	1.69E-06	0.00E+00	3.23E-06	1.23E-07	3.79E-07	0.00E+00	5.03E-07	6.95E-08	2.38E-07	0.00E+00	3.07E-07
1252	587885.7	4154491	7.86E-07	1.72E-06	0.00E+00	2.51E-06	1.60E-06	1.74E-06	0.00E+00	3.34E-06	1.27E-07	3.92E-07	0.00E+00	5.19E-07	7.18E-08	2.45E-07	0.00E+00	3.17E-07
1253	587845.1	4154531	5.7E-07	1.25E-06	0.00E+00	1.82E-06	1.16E-06	1.27E-06	0.00E+00	2.43E-06	9.24E-08	2.84E-07	0.00E+00	3.77E-07	5.21E-08	1.78E-07	0.00E+00	2.30E-07
1254	587852.8	4154525	5.95E-07	1.3E-06	0.00E+00	1.90E-06	1.21E-06	1.32E-06	0.00E+00	2.53E-06	9.63E-08	2.97E-07	0.00E+00	3.93E-07	5.43E-08	1.86E-07	0.00E+00	2.40E-07
1255	587860.5	4154520	6.19E-07	1.36E-06	0.00E+00	1.98E-06	1.26E-06	1.37E-06	0.00E+00	2.63E-06	1.00E-07	3.09E-07	0.00E+00	4.09E-07	5.66E-08	1.93E-07	0.00E+00	2.50E-07
1256	587883.6	4154504	6.93E-07	1.52E-06	0.00E+00	2.21E-06	1.41E-06	1.54E-06	0.00E+00	2.94E-06	1.12E-07	3.45E-07	0.00E+00	4.57E-07	6.32E-08	2.16E-07	0.00E+00	2.79E-07
1257	587891.3	4154499	7.16E-07	1.57E-06	0.00E+00	2.28E-06	1.45E-06	1.59E-06	0.00E+00	3.04E-06	1.16E-07	3.57E-07	0.00E+00	4.73E-07	6.54E-08	2.23E-07	0.00E+00	2.89E-07
1258	587850.7	4154539	5.23E-07	1.15E-06	0.00E+00	1.67E-06	1.06E-06	1.16E-06	0.00E+00	2.22E-06	8.48E-08	2.61E-07	0.00E+00	3.46E-07	4.78E-08	1.63E-07	0.00E+00	2.11E-07
1259	587858.4	4154534	5.45E-07	1.19E-06	0.00E+00	1.74E-06	1.11E-06	1.21E-06	0.00E+00	2.32E-06	8.83E-08	2.72E-07	0.00E+00	3.60E-07	4.98E-08	1.70E-07	0.00E+00	2.20E-07
1260	587866.1	4154528	5.67E-07	1.24E-06	0.00E+00	1.81E-06	1.15E-06	1.26E-06	0.00E+00	2.41E-06	9.18E-08	2.83E-07	0.00E+00	3.75E-07	5.18E-08	1.77E-07	0.00E+00	2.29E-07
1261	587889.2	4154513	6.33E-07	1.39E-06	0.00E+00	2.02E-06	1.29E-06	1.40E-06	0.00E+00	2.69E-06	1.02E-07	3.15E-07	0.00E+00	4.18E-07	5.78E-08	1.98E-07	0.00E+00	2.55E-07
1262	587897	4154507	6.54E-07	1.43E-06	0.00E+00	2.09E-06	1.33E-06	1.45E-06	0.00E+00	2.78E-06	1.06E-07	3.26E-07	0.00E+00	4.32E-07	5.97E-08	2.04E-07	0.00E+00	2.64E-07
1263	587856.4	4154547	4.82E-07	1.06E-06	0.00E+00	1.54E-06	9.79E-07	1.07E-06	0.00E+00	2.05E-06	7.80E-08	2.40E-07	0.00E+00	3.18E-07	4.40E-08	1.50E-07	0.00E+00	1.94E-07
1264	587864.1	4154542	5.01E-07	1.1E-06	0.00E+00	1.60E-06	1.02E-06	1.11E-06	0.00E+00	2.13E-06	8.12E-08	2.50E-07	0.00E+00	3.31E-07	4.58E-08	1.56E-07	0.00E+00	2.02E-07
1265	587871.8	4154537	5.21E-07	1.14E-06	0.00E+00	1.66E-06	1.06E-06	1.16E-06	0.00E+00	2.21E-06	8.44E-08	2.60E-07	0.00E+00	3.44E-07	4.76E-08	1.63E-07	0.00E+00	2.10E-07
1266	587894.9	4154521	5.8E-07	1.27E-06	0.00E+00	1.85E-06	1.18E-06	1.29E-06	0.00E+00	2.47E-06	9.40E-08	2.89E-07	0.00E+00	3.83E-07	5.30E-08	1.81E-07	0.00E+00	2.34E-07
1267	587902.6	4154516	5.99E-07	1.31E-06	0.00E+00	1.91E-06	1.22E-06	1.33E-06	0.00E+00	2.55E-06	9.71E-08	2.99E-07	0.00E+00	3.96E-07	5.47E-08	1.87E-07	0.00E+00	2.42E-07
1268	587862	4154555	4.45E-07	9.76E-07	0.00E+00	1.42E-06	9.05E-07	9.88E-07	0.00E+00	1.89E-06	7.21E-08	2.22E-07	0.00E+00	2.94E-07	4.06E-08	1.39E-07	0.00E+00	1.80E-07
1269	587869.7	4154550	4.63E-07	1.01E-06	0.00E+00	1.48E-06	9.40E-07	1.03E-06	0.00E+00	1.97E-06	7.49E-08	2.31E-07	0.00E+00	3.06E-07	4.22E-08	1.44E-07	0.00E+00	1.87E-07
1270	587877.4	4154545	4.8E-07	1.05E-06	0.00E+00	1.53E-06	9.76E-07	1.07E-06	0.00E+00	2.04E-06	7.78E-08	2.39E-07	0.00E+00	3.17E-07	4.38E-08	1.50E-07	0.00E+00	1.94E-07
1271	587900.5	4154529	5.34E-07	1.17E-06	0.00E+00	1.70E-06	1.08E-06	1.18E-06	0.00E+00	2.27E-06	8.64E-08	2.66E-07	0.00E+00	3.53E-07	4.87E-08	1.67E-07	0.00E+00	2.15E-07
1272	587908.2	4154524	5.51E-07	1.21E-06	0.00E+00	1.76E-06	1.12E-06	1.22E-06	0.00E+00	2.34E-06	8.93E-08	2.75E-07	0.00E+00	3.64E-07	5.03E-08	1.72E-07	0.00E+00	2.22E-07
1273	587867.7	4154564	4.13E-07	9.04E-07	0.00E+00	1.32E-06	8.39E-07	9.15E-07	0.00E+00	1.75E-06	6.68E-08	2.06E-07	0.00E+00	2.73E-07	3.77E-08	1.29E-07	0.00E+00	1.66E-07
1274	587875.4	4154558	4.28E-07	9.38E-07	0.00E+00	1.37E-06	8.70E-07	9.50E-07	0.00E+00	1.82E-06	6.93E-08	2.13E-07	0.00E+00	2.83E-07	3.91E-08	1.34E-07	0.00E+00	1.73E-07
1275	587883.1	4154553	4.44E-07	9.73E-07	0.00E+00	1.42E-06	9.02E-07	9.85E-07	0.00E+00	1.89E-06	7.19E-08	2.21E-07	0.00E+00	2.93E-07	4.05E-08	1.39E-07	0.00E+00	1.79E-07
1276	587906.2	4154537	4.93E-07	1.08E-06	0.00E+00	1.57E-06	1.00E-06	1.09E-06	0.00E+00	2.09E-06	7.98E-08	2.46E-07	0.00E+00	3.25E-07	4.50E-08	1.54E-07	0.00E+00	1.99E-07
1277	587913.9	4154532	5.09E-07	1.11E-06	0.00E+00	1.62E-06	1.03E-06	1.13E-06	0.00E+00	2.16E-06	8.24E-08	2.54E-07	0.00E+00	3.36E-07	4.64E-08	1.59E-07	0.00E+00	2.05E-07
1278	587873.3	4154572	3.83E-07	8.4E-07	0.00E+00	1.22E-06	7.79E-07	8.51E-07	0.00E+00	1.63E-06	6.21E-08	1.91E-07	0.00E+00	2.53E-07	3.50E-08	1.20E-07	0.00E+00	1.55E-07
1279	587881	4154567	3.97E-07	8.71E-07	0.00E+00	1.27E-06	8.08E-07	8.82E-07	0.00E+00	1.69E-06	6.44E-08	1.98E-07	0.00E+00	2.63E-07	3.63E-08	1.24E-07	0.00E+00	1.60E-07
1280	587888.7	4154561	4.12E-07	9.03E-07	0.00E+00	1.31E-06	8.37E-07	9.14E-07	0.00E+00	1.75E-06	6.67E-08	2.05E-07	0.00E+00	2.72E-07	3.76E-08	1.29E-07	0.00E+00	1.66E-07
1281	587911.8	4154546	4.56E-07	9.99E-07	0.00E+00	1.45E-06	9.26E-07	1.01E-06	0.00E+00	1.94E-06	7.38E-08	2.27E-07	0.00E+00	3.01E-07	4.16E-08	1.42E-07	0.00E+00	1.84E-07
1282	587919.5	4154540	4.7E-07	1.03E-06	0.00E+00	1.50E-06	9.56E-07	1.04E-06	0.00E+00	2.00E-06	7.62E-08	2.35E-07	0.00E+00	3.11E-07	4.30E-08	1.47E-07	0.00E+00	1.90E-07
1283	587878.9	4154580	3.57E-07	7.83E-07	0.00E+00	1.14E-06	7.26E-07	7.93E-07	0.00E+00	1.52E-06	5.79E-08	1.78E-07	0.00E+00	2.36E-07	3.26E-08	1.12E-07	0.00E+00	1.44E-07
1284	587886.6	4154575	3.7E-07	8.11E-07	0.00E+00	1.18E-06	7.52E-07	8.21E-07	0.00E+00	1.57E-06	5.99E-08	1.84E-07	0.00E+00	2.44E-07	3.38E-08	1.16E-07	0.00E+00	1.49E-07
1285	587894.3	4154570	3.83E-07	8.39E-07	0.00E+00	1.22E-06	7.78E-07	8.50E-07	0.00E+00	1.63E-06	6.20E-08	1.91E-07	0.00E+00	2.53E-07	3.50E-08	1.20E-07	0.00E+00	1.55E-07
1286	587917.5	4154554	4.23E-07	9.27E-07	0.00E+00	1.35E-06	8.60E-07	9.38E-07	0.00E+00	1.80E-06	6.85E-08	2.11E-07	0.00E+00	2.79E-07	3.86E-08	1.32E-07	0.00E+00	1.71E-07
1287	587925.2	4154549	4.36E-07	9.56E-07	0.00E+00	1.39E-06	8.87E-07	9.68E-07	0.00E+00	1.85E-06	7.07E-08	2.18E-07	0.00E+00	2.88E-07	3.98E-08	1.36E-07	0.00E+00	1.76E-07
1288	587884.6	4154588	3.34E-07	7.32E-07	0.00E+00	1.07E-06	6.79E-07	7.41E-07	0.00E+00	1.42E-06	5.41E-08	1.66E-07	0.00E+00	2.21E-07	3.05E-08	1.04E-07	0.00E+00	1.35E-07
1289	587892.3	4154583	3.45E-07	7.57E-07	0.00E+00	1.10E-06	7.02E-07	7.66E-07	0.00E+00	1.47E-06	5.59E-08	1.72E-07	0.00E+00	2.28E-07	3.15E-08	1.08E-07	0.00E+00	1.39E-07
1290	587900	4154578	3.57E-07	7.83E-07	0.00E+00	1.14E-06	7.26E-07	7.92E-07	0.00E+00	1.52E-06	5.78E-08	1.78E-07	0.00E+00	2.36E-07	3.26E-08	1.11E-07	0.00E+00	1.44E-07
1291	587923.1	4154562	3.94E-07	8.62E-07	0.00E+00	1.26E-06	8.00E-07	8.73E-07	0.00E+00	1.67E-06	6.37E-08	1.96E-07	0.00E+00	2.60E-07	3.59E-08	1.23E-07	0.00E+00	1.59E-07
1292	587930.8	4154557	4.06E-07	8.89E-07	0.00E+00	1.30E-06	8.25E-07	9.00E-07	0.00E+00	1.73E-06	6.57E-08	2.02E-07	0.00E+00	2.68E-07	3.71E-08	1.27E-07	0.00E+00	1.64E-07
1293	587890.2	4154597	3.13E-07	6.85E-07	0.00E+00	9.98E-07	6.36E-07	6.94E-07	0.00E+00	1.33E-06	5.06E-08	1.56E-07	0.00E+00	2.07E-07	2.85E-08	9.76E-08	0.00E+00	1.26E-07
1294	587897.9	4154591	3.23E-07	7.08E-07	0.00E+00	1.03E-06	6.57E-07	7.17E-07	0.00E+00	1.37E-06	5.23E-08	1.61E-07	0.00E+00	2.13E-07	2.95E-08	1.01E-07	0.00E+00	1.30E-07
1295	587905.6	4154586	3.34E-07	7.32E-07	0.00E+00	1.07E-06	6.78E-07	7.40E-07	0.00E+00	1.42E-06	5.41E-08	1.66E-07	0.00E+00	2.20E-07	3.05E-08	1.04E-07	0.00E+00	1.35E-07
1296	587928.7	4154570	3.67E-07	8.04E-07	0.00E+00	1.17E-06	7.46E-07	8.14E-07	0.00E+00	1.56E-06	5.94E-08	1.83E-07	0.00E+00	2.42E-07	3.35E-08	1.15E-07	0.00E+00	1.48E-07
1297	587936.4	4154565	3.78E-07	8.29E-07	0.00E+00	1.21E-06	7.69E-07	8.39E-07	0.00E+00	1.61E-06	6.13E-08	1.89E-07	0.00E+00	2.50E-07	3.45E-08	1.18E-07	0.00E+00	1.53E-07
1298	587895.9	4154605	2.93E-07	6.43E-07	0.00E+00	9.37E-07	5.96E-07	6.51E-07	0.00E+00	1.25E-06	4.75E-08	1.46E-07	0.00E+00	1.94E-07	2.68E-08	9.16E-08	0.00E+00	1.18E-07
1299	587903.6	4154600	3.03E-07	6.64E-07	0.00E+00	9.67E-07	6.16E-07	6.72E-07	0.00E+00	1.29E-06	4.91E-08	1.51E-07	0.00E+00	2.00E-07	2.77E-08	9.46E-08	0.00E+00	1.22E-07
1300	587911.3	4154594	3.13E-07	6.85E-07	0.00E+00	9.98E-07	6.36E-07	6.94E-07	0.00E+00	1.33E-06	5.06E-08	1.56E-07	0.00E+00	2.07E-07	2.86E-08	9.76E-08	0.00E+00	1.26E-07
1301	587934.4	4154579	3.43E-07	7.52E-07	0.00E+00	1.09E-06	6.97E-07	7.61E-07	0.00E+00	1.46E-06	5.56E-08	1.71E-07	0.00E+00	2.27E-07	3.13E-08	1.07E-07	0.00E+00	1.38E-07
1302	587942.1	4154573	3.53E-07	7.75E-07	0.00E+00	1.13E-06	7.18E-07	7.84E-07	0.00E+00	1.50E-06	5.72E-08	1.76E-07	0.00E+00	2.33E-07	3.23E-08	1.10E-07	0.00E+00	1.43E-07
1303	587901.5	4154613	2.76E-07	6.05E-07	0.00E+00	8.81E-07	5.61E-07	6.12E-07	0.00E+00	1.17E-06	4.47E-08	1.38E-07	0.00E+00	1.82E-07	2.52E-08	8.62E-08	0.00E+00	1.11E-07
1304	587909.2	4154608	2.85E-07	6.24E-07	0.00E+00	9.09E-07	5.79E-07	6.32E-07	0.00E+00	1.21E-06	4.61E-08	1.42E-07	0.00E+00	1.88E-07	2.60E-08	8.89E-08	0.00E+00	1.15E-07
1305	587916.9	4154603	2.94E-07	6.43E-07	0.00E+00	9.37E-07	5.97E-07	6.51E-07	0.00E+00	1.25E-06	4.75E-08	1.46E-07	0.00E+00	1.94E-07	2.68E-08	9.17E-08	0.00E+00	1.18E-07
1306	587940	4154587	3.21E-07	7.04E-07	0.00E+00	1.03E-06	6.53E-07	7.13E-07	0.00E+00	1.37E-06	5.20E-08	1.60E-07	0.00E+00	2.12E-07	2.93E-08	1.00E-07	0.00E+00	1.30E-07
1307	587947.7	4154582	3.31E-07	7.25E-07	0.00E+00	1.06E-06	6.73E-07	7.34E-07	0.00E+00	1.41E-06	5.36E-08	1.65E-07	0.00E+00	2.19E-07	3.02E-08	1.03E-07	0.00E+00	1.34E-07
1308	587907.1	4154621	2.6E-07	5.7E-07	0.00E+00	8.30E-07	5.29E-07	5.77E-07	0.00E+00	1.11E-06	4.21E-08	1.30E-07	0.00E+00	1.72E-07	2.37E-08	8.12E-08	0.00E+00	1.05E-07
1309	587914.8	4154616	2.68E-07	5.87E-07	0.00E+00	8.55E-07	5.45E-07	5.95E-07	0.00E+00	1.14E-06	4.34E-08	1.34E-07	0.00E+00	1.77E-07	2.45E-08	8.37E-08	0.00E+00	1.08E-07
1310	587922.5	4154611	2.76E-07	6.05E-07	0.00E+00	8.81E-07	5.61E-07	6.13E-07	0.00E+00	1.17E-06	4.47E-08	1.38E-07	0.00E+00	1.82E-07	2.52E-08	8.62E-08	0.00E+00	1.11E-07
1311	587945.7	4154595	3.02E-07	6.61E-07	0.00E+00	9.63E-07	6.13E-07	6.69E-07	0.00E+00	1.28E-06	4.89E-08	1.50E-07	0.00E+00	1.99E-07	2.75E-08	9.42E-08	0.00E+00	1.22E-07
1312	587953.4	4154590	3.1E-07	6.8E-07	0.00E+00	9.91E-07	6.31E-07	6.89E-07	0.00E+00	1.32E-06	5.03E-08	1.55E-07	0.00E+00	2.05E-07	2.83E-08	9.69E-08	0.00E+00	1.25E-07
1313	587842.6	4154372	3.71E-06	8.14E-06	0.00E+00	1.19E-05	7.55E-06	8.24E-06	0.00E+00	1.58E-05	6.01E-07	1.85E-06	0.00E+00	2.45E-06	3.39E-07	1.16E-06	0.00E+00	1.50E-06
1314	587833.1	4154386	3.44E-06	7.54E-06	0.00E+00	1.10E-05	7.00E-06	7.64E-06	0.00E+00	1.46E-05	5.57E-07	1.72E-06	0.00E+00	2.27E-06	3.14E-07	1.07E-06	0.00E+00	1.39E-06
1315	587861.9	4154359	3.4E-06	7.44E-06	0.00E+00	1.08E-05	6.90E-06	7.54E-06	0.00E+00	1.44E-05	5.50E-07	1.69E-06	0.00E+00	2.24E-06	3.10E-07	1.06E-06	0.00E+00	1.37E-06
1316	587852.6	4154373	3.29E-06	7.21E-06	0.00E+00	1.05E-05	6.69E-06	7.30E-06	0.00E+00	1.40E-05	5.33E-07	1.64E-06	0.00E+00	2.17E-06	3.01E-07	1.03E-06	0.00E+00	1.33E-06
1317	587843.3	4154387	3.08E-06	6.75E-06	0.00E+00	9.83E-06	6.26E-06	6.84E-06	0.00E+00	1.31E-05	4.99E-07	1.54E-06	0.00E+00	2.04E-06	2.81E-07	9.62E-07	0.00E+00	1.24E-06

1318	587874.7	4154345	3.27E-06	7.16E-06	0.00E+00	1.04E-05	6.64E-06	7.25E-06	0.00E+00	1.39E-05	5.29E-07	1.63E-06	0.00E+00	2.16E-06	2.98E-07	1.02E-06	0.00E+00	1.32E-06
1319	587871.2	4154362	3.02E-06	6.62E-06	0.00E+00	9.65E-06	6.14E-06	6.71E-06	0.00E+00	1.28E-05	4.90E-07	1.51E-06	0.00E+00	2.00E-06	2.76E-07	9.44E-07	0.00E+00	1.22E-06
1320	587866	4154370	2.98E-06	6.53E-06	0.00E+00	9.51E-06	6.06E-06	6.61E-06	0.00E+00	1.27E-05	4.83E-07	1.49E-06	0.00E+00	1.97E-06	2.72E-07	9.30E-07	0.00E+00	1.20E-06
1321	587860.8	4154378	2.91E-06	6.38E-06	0.00E+00	9.30E-06	5.92E-06	6.46E-06	0.00E+00	1.24E-05	4.72E-07	1.45E-06	0.00E+00	1.92E-06	2.66E-07	9.09E-07	0.00E+00	1.18E-06
1322	587855.6	4154385	2.82E-06	6.18E-06	0.00E+00	9.01E-06	5.74E-06	6.26E-06	0.00E+00	1.20E-05	4.57E-07	1.41E-06	0.00E+00	1.86E-06	2.58E-07	8.81E-07	0.00E+00	1.14E-06
1323	587850.5	4154393	2.7E-06	5.93E-06	0.00E+00	8.63E-06	5.50E-06	6.00E-06	0.00E+00	1.15E-05	4.38E-07	1.35E-06	0.00E+00	1.79E-06	2.47E-07	8.44E-07	0.00E+00	1.09E-06
1324	587845.3	4154401	2.57E-06	5.63E-06	0.00E+00	8.21E-06	5.23E-06	5.70E-06	0.00E+00	1.09E-05	4.16E-07	1.28E-06	0.00E+00	1.70E-06	2.35E-07	8.03E-07	0.00E+00	1.04E-06
1325	587840.1	4154409	2.42E-06	5.31E-06	0.00E+00	7.74E-06	4.93E-06	5.38E-06	0.00E+00	1.03E-05	3.93E-07	1.21E-06	0.00E+00	1.60E-06	2.21E-07	7.57E-07	0.00E+00	9.78E-07
1326	587884.6	4154347	2.92E-06	6.4E-06	0.00E+00	9.32E-06	5.94E-06	6.48E-06	0.00E+00	1.24E-05	4.73E-07	1.46E-06	0.00E+00	1.93E-06	2.67E-07	9.12E-07	0.00E+00	1.18E-06
1327	587881.1	4154364	2.71E-06	5.94E-06	0.00E+00	8.65E-06	5.51E-06	6.02E-06	0.00E+00	1.15E-05	4.39E-07	1.35E-06	0.00E+00	1.79E-06	2.48E-07	8.47E-07	0.00E+00	1.09E-06
1328	587876	4154372	2.68E-06	5.86E-06	0.00E+00	8.54E-06	5.44E-06	5.94E-06	0.00E+00	1.14E-05	4.33E-07	1.33E-06	0.00E+00	1.77E-06	2.44E-07	8.35E-07	0.00E+00	1.08E-06
1329	587871	4154379	2.62E-06	5.74E-06	0.00E+00	8.36E-06	5.32E-06	5.81E-06	0.00E+00	1.11E-05	4.24E-07	1.31E-06	0.00E+00	1.73E-06	2.39E-07	8.18E-07	0.00E+00	1.06E-06
1330	587865.9	4154387	2.55E-06	5.58E-06	0.00E+00	8.13E-06	5.18E-06	5.65E-06	0.00E+00	1.08E-05	4.12E-07	1.27E-06	0.00E+00	1.68E-06	2.32E-07	7.95E-07	0.00E+00	1.03E-06
1331	587860.8	4154394	2.46E-06	5.39E-06	0.00E+00	7.84E-06	5.00E-06	5.45E-06	0.00E+00	1.04E-05	3.98E-07	1.23E-06	0.00E+00	1.62E-06	2.24E-07	7.67E-07	0.00E+00	9.92E-07
1332	587894.4	4154350	2.63E-06	5.76E-06	0.00E+00	8.39E-06	5.34E-06	5.83E-06	0.00E+00	1.12E-05	4.26E-07	1.31E-06	0.00E+00	1.74E-06	2.40E-07	8.20E-07	0.00E+00	1.06E-06
1333	587891	4154366	2.45E-06	5.36E-06	0.00E+00	7.81E-06	4.98E-06	5.43E-06	0.00E+00	1.04E-05	3.96E-07	1.22E-06	0.00E+00	1.62E-06	2.23E-07	7.64E-07	0.00E+00	9.88E-07
1334	587886	4154373	2.42E-06	5.3E-06	0.00E+00	7.72E-06	4.91E-06	5.36E-06	0.00E+00	1.03E-05	3.92E-07	1.21E-06	0.00E+00	1.60E-06	2.21E-07	7.55E-07	0.00E+00	9.76E-07
1335	587902.7	4154343	2.52E-06	5.51E-06	0.00E+00	8.03E-06	5.11E-06	5.58E-06	0.00E+00	1.07E-05	4.07E-07	1.25E-06	0.00E+00	1.66E-06	2.30E-07	7.86E-07	0.00E+00	1.02E-06
1336	587900.8	4154368	2.22E-06	4.87E-06	0.00E+00	7.09E-06	4.52E-06	4.93E-06	0.00E+00	9.44E-06	3.60E-07	1.11E-06	0.00E+00	1.47E-06	2.03E-07	6.93E-07	0.00E+00	8.96E-07
1337	587871.4	4154412	1.89E-06	4.15E-06	0.00E+00	6.04E-06	3.85E-06	4.20E-06	0.00E+00	8.05E-06	3.07E-07	9.44E-07	0.00E+00	1.25E-06	1.73E-07	5.91E-07	0.00E+00	7.64E-07
1338	587861.6	4154427	1.71E-06	3.75E-06	0.00E+00	5.46E-06	3.48E-06	3.79E-06	0.00E+00	7.27E-06	2.77E-07	8.53E-07	0.00E+00	1.13E-06	1.56E-07	5.34E-07	0.00E+00	6.90E-07
1339	587837.9	4154184	2.1E-06	4.61E-06	0.00E+00	6.72E-06	4.28E-06	4.67E-06	0.00E+00	8.95E-06	3.41E-07	1.05E-06	0.00E+00	1.39E-06	1.92E-07	6.57E-07	0.00E+00	8.49E-07
1340	587912.2	4154344	2.3E-06	5.05E-06	0.00E+00	7.35E-06	4.68E-06	5.11E-06	0.00E+00	9.79E-06	3.73E-07	1.15E-06	0.00E+00	1.52E-06	2.10E-07	7.19E-07	0.00E+00	9.30E-07
1341	587913.9	4154353	2.17E-06	4.76E-06	0.00E+00	6.93E-06	4.42E-06	4.82E-06	0.00E+00	9.23E-06	3.52E-07	1.08E-06	0.00E+00	1.43E-06	1.98E-07	6.78E-07	0.00E+00	8.76E-07
1342	587910.3	4154370	2.02E-06	4.44E-06	0.00E+00	6.46E-06	4.11E-06	4.49E-06	0.00E+00	8.60E-06	3.28E-07	1.01E-06	0.00E+00	1.34E-06	1.85E-07	6.32E-07	0.00E+00	8.17E-07
1343	587905	4154378	2E-06	4.38E-06	0.00E+00	6.38E-06	4.06E-06	4.43E-06	0.00E+00	8.50E-06	3.24E-07	9.96E-07	0.00E+00	1.32E-06	1.82E-07	6.24E-07	0.00E+00	8.06E-07
1344	587883.9	4154410	1.78E-06	3.91E-06	0.00E+00	5.69E-06	3.62E-06	3.95E-06	0.00E+00	7.58E-06	2.89E-07	8.89E-07	0.00E+00	1.18E-06	1.63E-07	5.56E-07	0.00E+00	7.19E-07
1345	587878.6	4154418	1.7E-06	3.73E-06	0.00E+00	5.44E-06	3.46E-06	3.78E-06	0.00E+00	7.24E-06	2.76E-07	8.49E-07	0.00E+00	1.12E-06	1.56E-07	5.32E-07	0.00E+00	6.87E-07
1346	587873.3	4154426	1.62E-06	3.54E-06	0.00E+00	5.16E-06	3.29E-06	3.59E-06	0.00E+00	6.87E-06	2.62E-07	8.06E-07	0.00E+00	1.07E-06	1.48E-07	5.05E-07	0.00E+00	6.53E-07
1347	587868	4154434	1.53E-06	3.35E-06	0.00E+00	4.87E-06	3.10E-06	3.39E-06	0.00E+00	6.49E-06	2.47E-07	7.61E-07	0.00E+00	1.01E-06	1.39E-07	4.77E-07	0.00E+00	6.16E-07
1348	587862.7	4154442	1.43E-06	3.14E-06	0.00E+00	4.58E-06	2.92E-06	3.18E-06	0.00E+00	6.10E-06	2.32E-07	7.15E-07	0.00E+00	9.48E-07	1.31E-07	4.48E-07	0.00E+00	5.79E-07
1349	587851.4	4154186	2.07E-06	4.54E-06	0.00E+00	6.61E-06	4.21E-06	4.59E-06	0.00E+00	8.80E-06	3.35E-07	1.03E-06	0.00E+00	1.37E-06	1.89E-07	6.46E-07	0.00E+00	8.35E-07
1350	587846.4	4154178	1.94E-06	4.26E-06	0.00E+00	6.21E-06	3.95E-06	4.31E-06	0.00E+00	8.27E-06	3.15E-07	9.69E-07	0.00E+00	1.28E-06	1.78E-07	6.07E-07	0.00E+00	7.85E-07
1351	587920.1	4154372	1.85E-06	4.06E-06	0.00E+00	5.92E-06	3.77E-06	4.11E-06	0.00E+00	7.88E-06	3.00E-07	9.24E-07	0.00E+00	1.22E-06	1.69E-07	5.79E-07	0.00E+00	7.48E-07
1352	587915	4154380	1.83E-06	4.01E-06	0.00E+00	5.85E-06	3.72E-06	4.06E-06	0.00E+00	7.79E-06	2.97E-07	9.13E-07	0.00E+00	1.21E-06	1.67E-07	5.72E-07	0.00E+00	7.39E-07
1353	587909.8	4154388	1.8E-06	3.94E-06	0.00E+00	5.74E-06	3.66E-06	3.99E-06	0.00E+00	7.65E-06	2.91E-07	8.97E-07	0.00E+00	1.19E-06	1.64E-07	5.62E-07	0.00E+00	7.26E-07
1354	587904.6	4154396	1.76E-06	3.85E-06	0.00E+00	5.61E-06	3.57E-06	3.90E-06	0.00E+00	7.47E-06	2.85E-07	8.76E-07	0.00E+00	1.16E-06	1.60E-07	5.49E-07	0.00E+00	7.09E-07
1355	587894.2	4154411	1.65E-06	3.61E-06	0.00E+00	5.26E-06	3.35E-06	3.66E-06	0.00E+00	7.01E-06	2.67E-07	8.22E-07	0.00E+00	1.09E-06	1.50E-07	5.15E-07	0.00E+00	6.65E-07
1356	587889	4154419	1.58E-06	3.47E-06	0.00E+00	5.06E-06	3.22E-06	3.51E-06	0.00E+00	6.74E-06	2.57E-07	7.90E-07	0.00E+00	1.05E-06	1.45E-07	4.95E-07	0.00E+00	6.39E-07
1357	587883.8	4154427	1.51E-06	3.31E-06	0.00E+00	4.83E-06	3.07E-06	3.35E-06	0.00E+00	6.43E-06	2.45E-07	7.54E-07	0.00E+00	9.99E-07	1.38E-07	4.72E-07	0.00E+00	6.10E-07
1358	587878.7	4154434	1.44E-06	3.15E-06	0.00E+00	4.58E-06	2.92E-06	3.18E-06	0.00E+00	6.10E-06	2.32E-07	7.15E-07	0.00E+00	9.48E-07	1.31E-07	4.48E-07	0.00E+00	5.79E-07
1359	587873.5	4154442	1.36E-06	2.97E-06	0.00E+00	4.33E-06	2.76E-06	3.01E-06	0.00E+00	5.76E-06	2.20E-07	6.76E-07	0.00E+00	8.95E-07	1.24E-07	4.23E-07	0.00E+00	5.47E-07
1360	587868.3	4154450	1.27E-06	2.79E-06	0.00E+00	4.07E-06	2.59E-06	2.83E-06	0.00E+00	5.42E-06	2.06E-07	6.36E-07	0.00E+00	8.42E-07	1.16E-07	3.98E-07	0.00E+00	5.14E-07
1361	587875.2	4154206	2.22E-06	4.87E-06	0.00E+00	7.10E-06	4.52E-06	4.93E-06	0.00E+00	9.45E-06	3.60E-07	1.11E-06	0.00E+00	1.47E-06	2.03E-07	6.94E-07	0.00E+00	8.97E-07
1362	587870.1	4154197	2.13E-06	4.66E-06	0.00E+00	6.79E-06	4.32E-06	4.72E-06	0.00E+00	9.04E-06	3.44E-07	1.06E-06	0.00E+00	1.40E-06	1.94E-07	6.64E-07	0.00E+00	8.58E-07
1363	587854.8	4154173	1.8E-06	3.95E-06	0.00E+00	5.76E-06	3.67E-06	4.00E-06	0.00E+00	7.67E-06	2.92E-07	9.00E-07	0.00E+00	1.19E-06	1.65E-07	5.63E-07	0.00E+00	7.28E-07
1364	587930	4154374	1.7E-06	3.74E-06	0.00E+00	5.44E-06	3.46E-06	3.78E-06	0.00E+00	7.25E-06	2.76E-07	8.50E-07	0.00E+00	1.13E-06	1.56E-07	5.32E-07	0.00E+00	6.88E-07
1365	587924.9	4154382	1.69E-06	3.69E-06	0.00E+00	5.38E-06	3.43E-06	3.74E-06	0.00E+00	7.17E-06	2.73E-07	8.40E-07	0.00E+00	1.11E-06	1.54E-07	5.26E-07	0.00E+00	6.80E-07
1366	587919.8	4154390	1.66E-06	3.63E-06	0.00E+00	5.29E-06	3.37E-06	3.68E-06	0.00E+00	7.05E-06	2.69E-07	8.27E-07	0.00E+00	1.10E-06	1.51E-07	5.18E-07	0.00E+00	6.69E-07
1367	587914.7	4154397	1.62E-06	3.56E-06	0.00E+00	5.18E-06	3.30E-06	3.60E-06	0.00E+00	6.90E-06	2.63E-07	8.09E-07	0.00E+00	1.07E-06	1.48E-07	5.06E-07	0.00E+00	6.55E-07
1368	587909.6	4154405	1.58E-06	3.46E-06	0.00E+00	5.04E-06	3.21E-06	3.50E-06	0.00E+00	6.71E-06	2.56E-07	7.87E-07	0.00E+00	1.04E-06	1.44E-07	4.93E-07	0.00E+00	6.37E-07
1369	587899.4	4154420	1.47E-06	3.23E-06	0.00E+00	4.70E-06	2.99E-06	3.27E-06	0.00E+00	6.26E-06	2.39E-07	7.34E-07	0.00E+00	9.73E-07	1.35E-07	4.60E-07	0.00E+00	5.94E-07
1370	587894.3	4154428	1.41E-06	3.1E-06	0.00E+00	4.51E-06	2.87E-06	3.14E-06	0.00E+00	6.01E-06	2.29E-07	7.05E-07	0.00E+00	9.34E-07	1.29E-07	4.42E-07	0.00E+00	5.71E-07
1371	587889.2	4154435	1.35E-06	2.96E-06	0.00E+00	4.30E-06	2.74E-06	2.99E-06	0.00E+00	5.73E-06	2.18E-07	6.72E-07	0.00E+00	8.91E-07	1.23E-07	4.21E-07	0.00E+00	5.44E-07
1372	587884.1	4154443	1.28E-06	2.8E-06	0.00E+00	4.08E-06	2.60E-06	2.84E-06	0.00E+00	5.44E-06	2.07E-07	6.38E-07	0.00E+00	8.45E-07	1.17E-07	3.99E-07	0.00E+00	5.16E-07
1373	587879	4154451	1.21E-06	2.65E-06	0.00E+00	3.86E-06	2.46E-06	2.68E-06	0.00E+00	5.14E-06	1.96E-07	6.03E-07	0.00E+00	7.99E-07	1.10E-07	3.78E-07	0.00E+00	4.88E-07
1374	587873.9	4154458	1.14E-06	2.5E-06	0.00E+00	3.63E-06	2.31E-06	2.53E-06	0.00E+00	4.84E-06	1.84E-07	5.68E-07	0.00E+00	7.52E-07	1.04E-07	3.55E-07	0.00E+00	4.59E-07
1375	587888.8	4154208	2.12E-06	4.65E-06	0.00E+00	6.77E-06	4.31E-06	4.71E-06	0.00E+00	9.02E-06	3.44E-07	1.06E-06	0.00E+00	1.40E-06	1.94E-07	6.63E-07	0.00E+00	8.56E-07
1376	587883.7	4154200	2.05E-06	4.48E-06	0.00E+00	6.53E-06	4.16E-06	4.54E-06	0.00E+00	8.70E-06	3.31E-07	1.02E-06	0.00E+00	1.35E-06	1.87E-07	6.39E-07	0.00E+00	8.26E-07
1377	587878.6	4154192	1.96E-06	4.3E-06	0.00E+00	6.26E-06	3.98E-06	4.35E-06	0.00E+00	8.33E-06	3.18E-07	9.77E-07	0.00E+00	1.29E-06	1.79E-07	6.12E-07	0.00E+00	7.91E-07
1378	587873.5	4154184	1.87E-06	4.1E-06	0.00E+00	5.96E-06	3.80E-06	4.15E-06	0.00E+00	7.94E-06	3.03E-07	9.32E-07	0.00E+00	1.23E-06	1.71E-07	5.83E-07	0.00E+00	7.54E-07
1379	587934.8	4154384	1.56E-06	3.41E-06	0.00E+00	4.97E-06	3.16E-06	3.45E-06	0.00E+00	6.62E-06	2.52E-07	7.76E-07	0.00E+00	1.03E-06	1.42E-07	4.86E-07	0.00E+00	6.28E-07
1380	587929.8	4154391	1.53E-06	3.36E-06	0.00E+00	4.89E-06	3.12E-06	3.40E-06	0.00E+00	6.52E-06	2.48E-07	7.64E-07	0.00E+00	1.01E-06	1.40E-07	4.79E-07	0.00E+00	6.18E-07
1381	587924.8	4154399	1.5E-06	3.29E-06	0.00E+00	4.79E-06	3.05E-06	3.33E-06	0.00E+00	6.39E-06	2.43E-07	7.49E-07	0.00E+00	9.92E-07	1.37E-07	4.69E-07	0.00E+00	6.06E-07
1382	587919.7	4154406	1.46E-06	3.21E-06	0.00E+00	4.68E-06	2.98E-06	3.25E-06	0.00E+00	6.23E-06	2.37E-07	7.30E-07	0.00E+00	9.68E-07	1.34E-07	4.57E-07	0.00E+00	5.91E-07
1383	587914.7	4154414	1.42E-06	3.12E-06	0.00E+00	4.54E-06	2.89E-06	3.15E-06	0.00E+00	6.04E-06	2.30E-07	7.09E-07	0.00E+00	9.39E-07	1.30E-07	4.44E-07	0.00E+00	5.74E-07
1384	587904.6	4154429	1.32E-06	2.9E-06	0.00E+00	4.22E-06	2.69E-06	2.94E-06	0.00E+00	5.63E-06	2.14E-07	6.60E-07	0.00E+00	8.74E-07	1.21E-07	4.13E-07	0.00E+00	5.34E-07
1385	587899.6	4154437	1.27E-06	2.78E-06	0.00E+00	4.05E-06	2.58E-06	2.81E-06	0.00E+00	5.39E-06	2.05E-07	6.32E-07	0.00E+00	8.37E-07	1.16E-07	3.96E-07	0.00E+00	5.11E-07
1386	587894.5	4154444	1.21E-06	2.65E-06	0.00E+00	3.85E-06	2.45E-06	2.68E-06	0.00E+00	5.13E-06	1.96E-07	6.02E-07	0.00E+00	7.98E-07	1.10E-07	3.77E-07	0.00E+00	4.87E-07
1387	587889.5	4154452	1.15E-06	2.51E-06	0.00E+00	3.66E-06	2.33E-06	2.54E-06	0.00E+00	4.87E-06	1.86E-07	5.72E-07	0.00E+00	7.57E-07	1.05E-07	3.58E-07	0.00E+00	4.63E-07
1388	587884.5	4154459	1.08E-06	2.38E-06	0.00E+00	3.46E-06	2.20E-06	2.40E-06	0.00E+00	4.61E-06	1.76E-07	5.40E-07	0.00E+00	7.16E-07	9.90E-08	3.38E-07	0.00E+00	4.37E-07
1389	587879.4	4154467	1.02E-06	2.24E-06	0.00E+00	3.26E-06	2.08E-06	2.27E-06	0.00E+00	4.34E-06	1.65E-07	5.09E-07	0.00E+00	6.75E-07	9.33E-08	3.19E-07	0.00E+00	4.12E-07
1390	587902.3	4154211	2.02E-06	4.42E-06	0.00E+00	6.44E-06	4.10E-06	4.47E-06	0.00E+00	8.57E-06	3.27E-07	1.01E-06	0.00E+00	1.33E-06	1.84E-07	6.29E-07	0.00E+00	8.14E-07
1391	587897.2	4154203	1.96E-06	4.29E-06	0.00E+00	6.25E-06	3.98E-06	4.34E-06	0.00E+00	8.32E-06	3.17E-07	9.76E-07	0.00E+00	1.29E-06	1.79E-07	6.11E-07	0.00E+00	7.90E-07
1392	587892.1	4154195	1.89E-06	4.14E-06	0.00E+00	6.03E-06	3.84E-06	4.19E-06	0.00E+00	8.03E-06	3.06E-07	9.42E-07	0.00E+00	1.25E-06	1.73E-07	5.90E-07	0.00E+00	7.63E-07
1393	587887.1	4154187	1.81E-06	3.98E-06	0.00E+00	5.79E-06	3.69E-06	4.03E-06	0.00E+00	7.71E-06	2.94E-07	9.05E-07	0.00E+00	1.20E-06	1.66E-07	5.66E-07	0.00E+00	7.32E-07
1394	587882	4154179	1.73E-06	3.8E-06	0.00E+00	5.53E-06	3.52E-06	3.85E-06	0.00E+00	7.37E-06	2.81E-07	8.64E-07	0.00E+00	1.15E-06	1.58E-07	5.41E-07	0.00E+00	7.00E-07
1395	587876.9	4154171	1.65E-06	3.62E-06	0.00E+00	5.27E-06	3.36E-06	3.66E-06	0.00E+00	7.02E-06	2.67E-07	8.23E-07	0.00E+00	1.09E-06	1.51E-07	5.15E-07	0.00E+00	6.66E-07
1396	587939.8	4154393	1.42E-06	3.11E-06	0.00E+00	4.54E-06	2.89E-06	3.15E-06	0.00E+00	6.04E-06	2.30E-07	7.08E-07	0.00E+00	9.39E-07	1.30E-07	4.44E-07	0.00E+00	5.73E-07
1397	587929.8	4154408	1.36E-06	2.99E-06	0.00E+00	4.35E-06	2.77E-06	3.02E-06	0.00E+00	5.79E-06	2.21E-07	6.79E-07	0.00E+00	9.00E-07	1.24E-07	4.25E-07	0.00E+00	5.50E-07
1398	587924.8	4154415	1.33E-06	2.9E-06	0.00E+00	4.23E-06	2.69E-06	2.94E-06	0.00E+00	5.63E-06	2.15E-07	6.61E-07	0.00E+00	8.75E-07	1.21E-07	4.14E-07	0.00E+00	5.35E-07
1399	587919.8	4154423	1.28E-06	2.81E-06	0.00E+00	4.10E-06	2.61E-06	2.85E-06	0.00E+00	5.46E-06	2.08E-07	6.40E-07	0.00E+00	8.48E-07	1.17E-07	4.01E-07	0.00E+00	5.18E-07
1400	587909.9	4154438	1.19E-06	2.61E-06	0.00E+00	3.81E-06	2.42E-06	2.64E-06	0.00E+00	5.07E-06	1.93E-07	5.94E-07	0.00E+00	7.87E-07	1.09E-07	3.72E-07	0.00E+00	4.81E-07
1401	587899.9	4154453	1.09E-06	2.38E-06	0.00E+00	3.47E-06	2.21E-06	2.41E-06	0.00E+00	4.62E-06	1.76E-07	5.42E-07	0.00E+00	7.18E-07	9.92E-08	3.39E-07	0.00E+00	4.38E-07
1402	587895	4154460	1.03E-06	2.26E-06	0.00E+00	3.29E-06	2.10E-06	2.29E-06	0.00E+00	4.38E-06	1.67E-07	5.14E-07	0.00E+00	6.81E-07	9.42E-08	3.22E-07	0.00E+00	4.16E-07
1403	587885	4154475	9.21E-07	2.02E-06	0.00E+00	2.94E-06	1.87E-06	2.04E-06	0.00E+00	3.92E-06	1.49E-07	4.59E-07	0.00E+00	6.08E-07	8.41E-08	2.88E-07	0.00E+00	3.72E-07
1404	587915.9	4154214	1.91E-06	4.18E-06	0.00E+00	6.09E-06	3.88E-06	4.23E-06	0.00E+00	8.11E-06	3.09E-07	9.51E-07	0.00E+00	1.26E-06	1.74E-07	5.95E-07	0.00E+00	7.70E-07
1405	587910.8	4154206	1.87E-06	4.09E-06	0.00E+00	5.95E-06	3.79E-06	4.14E-06	0.00E+00	7.93E-06	3.02E-07	9.30E-07	0.00E+00	1.23E-06	1.70E-07	5.82E-07	0.00E+00	7.53E-07
1406	587905.7	4154198	1.81E-06	3.97E-06	0.00E+00	5.79E-06	3.68E-06	4.02E-06	0.00E+00	7.71E-06	2.94E-07	9.04E-07	0.00E+00	1.20E-06	1.66E-07	5.66E-07	0.00E+00	7.31E-07
1407	587900.6	4154190	1.75E-06	3.84E-06	0.00E+00	5.59E-06	3.56E-06	3.89E-06	0.00E+00	7.45E-06	2.84E-07	8.74E-07	0.00E+00	1.16E-06	1.60E-07	5.47E-07	0.00E+00	7.07E-07
1408	587895.5	4154182	1.69E-06	3.69E-06	0.00E+00	5.38E-06	3.43E-06	3.74E-06	0.00E+00	7.16E-06	2.73E-07	8.40E-07	0.00E+00	1.11E-06	1.54E-07	5.26E-07	0.00E+00	6.80E-07
1409	587890.5	4154173	1.61E-06	3.54E-06	0.00E+00	5.15E-06	3.28E-06	3.58E-06	0.00E+00	6.86E-06	2.61E-07	8.05E-07	0.00E+00	1.07E-06	1.47E-07	5.04E-07	0.00E+00	6.51E-07
1410	587885.4	4154165	1.54E-06	3.38E-06	0.00E+00	4.92E-06	3.13E-06	3.42E-06	0.00E+00	6.55E-06	2.50E-07	7.68E-07	0.00E+00	1.02E-06	1.41E-07	4.81E-07	0.00E+00	6.22E-07
1411	587880.3	4154157	1.47E-06	3.22E-06	0.00E+00	4.68E-06	2.98E-06	3.25E-06	0.00E+00	6.24E-06	2.38E-07	7.31E-07	0.00E+00	9.69E-07	1.34E-07	4.58E-07	0.00E+00	5.92E-07
1412	587943.5	4154404	1.29E-06	2.83E-06	0.00E+00	4.12E-06	2.63E-06	2.87E-06	0.00E+00	5.49E-06	2.09E-07	6.44E-07	0.00E+00	8.53E-07	1.18E-07	4.03E-07	0.00E+00	5.21E-07
1413	587938.2	4154412	1.26E-06	2.76E-06	0.00E+00	4.02E-06	2.56E-06	2.80E-06	0.00E+00	5.36E-06	2.04E-07	6.28E-07	0.00E+00	8.33E-07	1.15E-07	3.93E-07	0.00E+00	5.09E-07
1414	587933	4154420	1.22E-06	2.68E-06	0.00E+00	3.91E-06	2.49E-06	2.72E-06	0.00E+00	5.20E-06	1.98E-07	6.10E-07	0.00E+00	8.09E-07	1.12E-07	3.82E-07	0.00E+00	4.94E-07
1415	587927.7	4154428	1.18E-06	2.6E-06	0.00E+00	3.78E-06	2.41E-06	2.63E-06	0.00E+00	5.03E-06	1.92E-07	5.90E-07	0.00E+00	7.82E-07	1.08E-07	3.70E-07	0.00E+00	4.78E-07
1416	587917.2	4154444	1.1E-06	2.4E-06	0.00E+00	3.50E-06	2.23E-06	2.43E-06	0.00E+00	4.66E-06	1.77E-07	5.46E-07	0.00E+00	7.23E-07	1.00E-07	3.42E-07	0.00E+00	4.42E-07
1417	587911.9	4154451	1.05E-06	2.29E-06	0.00E+00	3.34E-06	2.13E-06	2.32E-06	0.00E+00	4.44E-06	1.69E-07	5.21E-07	0.00E+00	6.91E-07	9.55E-08	3.26E-07	0.00E+00	4.22E-07
1418	587906.7	4154459	9.94E-07	2.18E-06	0.00E+00	3.17E-06	2.02E-06	2.21E-06	0.00E+00	4.23E-06	1.61E-07	4.96E-07	0.00E+00	6.57E-07	9.08E-08	3.10E-07	0.00E+00	4.01E-07
1419	587901.4	4154467	9.42E-07	2.06E-06	0.00E+00	3.01E-06	1.91E-06	2.09E-06	0.00E+00	4.00E-06	1.53E-07	4.69E-07	0.00E+00	6.22E-07	8.60E-08	2.94E-07	0.00E+00	3.80E-07
1420	587896.2	4154475	8.89E-07	1.95E-06	0.00E+00	2.84E-06	1.81E-06	1.97E-06	0.00E+00	3.78E-06	1.44E-07	4.43E-07	0.00E+00	5.87E-07	8.12E-08	2.78E-07	0.00E+00	3.59E-07
1421	587890.9	4154483	8.37E-07	1.83E-06	0.00E+00	2.67E-06	1.70E-06	1.86E-06	0.00E+00	3.56E-06	1.36E-07	4.17E-07	0.00E+00	5.53E-07	7.64E-08	2.61E-07	0.00E+00	3.38E-07
1422	587924.4	4154209	1.77E-06	3.88E-06	0.00E+00	5.65E-06	3.60E-06	3.93E-06	0.00E+00	7.52E-06	2.87E-07	8.82E-07	0.00E+00	1.17E-06	1.62E-07	5.52E-07	0.00E+00	7.14E-07
1423	587919.3	4154201	1.73E-06	3.79E-06	0.00E+00	5.53E-06	3.52E-06	3.84E-06	0.00E+00	7.36E-06	2.80E-07	8.63E-07	0.00E+00	1.14E-06	1.58E-07	5.40E-07	0.00E+00	6.99E-07
1424	587914.2	4154193	1.68E-06	3.69E-06	0.00E+00	5.38E-06	3.42E-06	3.74E-06	0.00E+00	7.16E-06	2.73E-07	8.40E-07	0.00E+00	1.11E-06	1.54E-07	5.26E-07	0.00E+00	6.80E-07
1425	587909.1	4154184	1.63E-06	3.57E-06	0.00E+00	5.20E-06	3.31E-06	3.62E-06	0.00E+00	6.93E-06	2.64E-07	8.13E-07	0.00E+00	1.08E-06	1.49E-07	5.09E-07	0.00E+00	6.58E-07
1426	587904	4154176	1.57E-06	3.44E-06	0.00E+00	5.01E-06	3.19E-06	3.48E-06	0.00E+00	6.67E-06	2.54E-07	7.83E-07	0.00E+00	1.04E-06	1.43E-07	4.90E-07	0.00E+00	6.33E-07
1427	587898.9	4154168	1.51E-06	3.3E-06	0.00E+00	4.81E-06	3.06E-06	3.34E-06	0.00E+00	6.41E-06	2.44E-07	7.51E-07	0.00E+00	9.95E-07	1.38E-07	4.70E-07	0.00E+00	6.08E-07

1428	587893.8	4154160	1.44E-06	3.16E-06	0.00E+00	4.60E-06	2.93E-06	3.20E-06	0.00E+00	6.13E-06	2.34E-07	7.19E-07	0.00E+00	9.52E-07	1.32E-07	4.50E-07	0.00E+00	5.82E-07
1429	587948.3	4154414	1.18E-06	2.58E-06	0.00E+00	3.76E-06	2.40E-06	2.62E-06	0.00E+00	5.01E-06	1.91E-07	5.88E-07	0.00E+00	7.79E-07	1.08E-07	3.68E-07	0.00E+00	4.76E-07
1430	587943.2	4154421	1.15E-06	2.52E-06	0.00E+00	3.66E-06	2.33E-06	2.55E-06	0.00E+00	4.88E-06	1.86E-07	5.72E-07	0.00E+00	7.58E-07	1.05E-07	3.58E-07	0.00E+00	4.63E-07
1431	587938	4154429	1.11E-06	2.44E-06	0.00E+00	3.55E-06	2.26E-06	2.47E-06	0.00E+00	4.73E-06	1.80E-07	5.55E-07	0.00E+00	7.35E-07	1.02E-07	3.47E-07	0.00E+00	4.49E-07
1432	587932.8	4154437	1.07E-06	2.35E-06	0.00E+00	3.43E-06	2.18E-06	2.38E-06	0.00E+00	4.57E-06	1.74E-07	5.36E-07	0.00E+00	7.09E-07	9.81E-08	3.35E-07	0.00E+00	4.33E-07
1433	587922.4	4154452	9.92E-07	2.17E-06	0.00E+00	3.17E-06	2.02E-06	2.20E-06	0.00E+00	4.22E-06	1.61E-07	4.95E-07	0.00E+00	6.55E-07	9.06E-08	3.10E-07	0.00E+00	4.00E-07
1434	587917.2	4154460	9.47E-07	2.08E-06	0.00E+00	3.02E-06	1.92E-06	2.10E-06	0.00E+00	4.02E-06	1.53E-07	4.72E-07	0.00E+00	6.25E-07	8.64E-08	2.96E-07	0.00E+00	3.82E-07
1435	587912	4154468	9E-07	1.97E-06	0.00E+00	2.87E-06	1.83E-06	2.00E-06	0.00E+00	3.83E-06	1.46E-07	4.49E-07	0.00E+00	5.95E-07	8.22E-08	2.81E-07	0.00E+00	3.63E-07
1436	587906.9	4154476	8.53E-07	1.87E-06	0.00E+00	2.72E-06	1.73E-06	1.89E-06	0.00E+00	3.63E-06	1.38E-07	4.25E-07	0.00E+00	5.64E-07	7.79E-08	2.66E-07	0.00E+00	3.44E-07
1437	587901.7	4154484	8.07E-07	1.77E-06	0.00E+00	2.57E-06	1.64E-06	1.79E-06	0.00E+00	3.43E-06	1.31E-07	4.02E-07	0.00E+00	5.33E-07	7.37E-08	2.52E-07	0.00E+00	3.25E-07
1438	587896.5	4154491	7.61E-07	1.67E-06	0.00E+00	2.43E-06	1.55E-06	1.69E-06	0.00E+00	3.23E-06	1.23E-07	3.79E-07	0.00E+00	5.02E-07	6.94E-08	2.37E-07	0.00E+00	3.07E-07
1439	587932.8	4154203	1.65E-06	3.61E-06	0.00E+00	5.26E-06	3.35E-06	3.65E-06	0.00E+00	7.00E-06	2.67E-07	8.21E-07	0.00E+00	1.09E-06	1.50E-07	5.14E-07	0.00E+00	6.65E-07
1440	587927.8	4154195	1.61E-06	3.53E-06	0.00E+00	5.15E-06	3.28E-06	3.58E-06	0.00E+00	6.85E-06	2.61E-07	8.04E-07	0.00E+00	1.06E-06	1.47E-07	5.03E-07	0.00E+00	6.50E-07
1441	587922.7	4154187	1.57E-06	3.44E-06	0.00E+00	5.01E-06	3.19E-06	3.48E-06	0.00E+00	6.67E-06	2.54E-07	7.82E-07	0.00E+00	1.04E-06	1.43E-07	4.90E-07	0.00E+00	6.33E-07
1442	587917.6	4154179	1.52E-06	3.33E-06	0.00E+00	4.85E-06	3.09E-06	3.37E-06	0.00E+00	6.46E-06	2.46E-07	7.58E-07	0.00E+00	1.00E-06	1.39E-07	4.75E-07	0.00E+00	6.13E-07
1443	587912.5	4154171	1.47E-06	3.22E-06	0.00E+00	4.68E-06	2.98E-06	3.25E-06	0.00E+00	6.24E-06	2.38E-07	7.31E-07	0.00E+00	9.69E-07	1.34E-07	4.58E-07	0.00E+00	5.92E-07
1444	587907.4	4154163	1.41E-06	3.09E-06	0.00E+00	4.50E-06	2.87E-06	3.13E-06	0.00E+00	6.00E-06	2.28E-07	7.03E-07	0.00E+00	9.32E-07	1.29E-07	4.40E-07	0.00E+00	5.69E-07
1445	587902.3	4154155	1.35E-06	2.96E-06	0.00E+00	4.32E-06	2.75E-06	3.00E-06	0.00E+00	5.75E-06	2.19E-07	6.74E-07	0.00E+00	8.93E-07	1.23E-07	4.22E-07	0.00E+00	5.46E-07
1446	587953.3	4154423	1.08E-06	2.36E-06	0.00E+00	3.44E-06	2.19E-06	2.39E-06	0.00E+00	4.58E-06	1.75E-07	5.38E-07	0.00E+00	7.12E-07	9.84E-08	3.37E-07	0.00E+00	4.35E-07
1447	587948.2	4154431	1.05E-06	2.3E-06	0.00E+00	3.34E-06	2.13E-06	2.32E-06	0.00E+00	4.45E-06	1.70E-07	5.22E-07	0.00E+00	6.92E-07	9.56E-08	3.27E-07	0.00E+00	4.23E-07
1448	587943.1	4154438	1.01E-06	2.22E-06	0.00E+00	3.24E-06	2.06E-06	2.25E-06	0.00E+00	4.31E-06	1.64E-07	5.05E-07	0.00E+00	6.70E-07	9.25E-08	3.16E-07	0.00E+00	4.09E-07
1449	587937.9	4154446	9.77E-07	2.14E-06	0.00E+00	3.12E-06	1.99E-06	2.17E-06	0.00E+00	4.15E-06	1.58E-07	4.87E-07	0.00E+00	6.45E-07	8.92E-08	3.05E-07	0.00E+00	3.94E-07
1450	587927.7	4154461	9.01E-07	1.98E-06	0.00E+00	2.88E-06	1.83E-06	2.00E-06	0.00E+00	3.83E-06	1.46E-07	4.49E-07	0.00E+00	5.95E-07	8.23E-08	2.81E-07	0.00E+00	3.64E-07
1451	587922.6	4154469	8.6E-07	1.89E-06	0.00E+00	2.75E-06	1.75E-06	1.91E-06	0.00E+00	3.66E-06	1.39E-07	4.29E-07	0.00E+00	5.68E-07	7.85E-08	2.69E-07	0.00E+00	3.47E-07
1452	587917.4	4154477	8.18E-07	1.79E-06	0.00E+00	2.61E-06	1.66E-06	1.82E-06	0.00E+00	3.48E-06	1.33E-07	4.08E-07	0.00E+00	5.40E-07	7.47E-08	2.55E-07	0.00E+00	3.30E-07
1453	587912.3	4154484	7.76E-07	1.7E-06	0.00E+00	2.48E-06	1.58E-06	1.72E-06	0.00E+00	3.30E-06	1.26E-07	3.87E-07	0.00E+00	5.13E-07	7.09E-08	2.42E-07	0.00E+00	3.13E-07
1454	587907.2	4154492	7.35E-07	1.61E-06	0.00E+00	2.34E-06	1.49E-06	1.63E-06	0.00E+00	3.12E-06	1.19E-07	3.66E-07	0.00E+00	4.85E-07	6.71E-08	2.29E-07	0.00E+00	2.96E-07
1455	587902.1	4154500	6.94E-07	1.52E-06	0.00E+00	2.21E-06	1.41E-06	1.54E-06	0.00E+00	2.95E-06	1.12E-07	3.46E-07	0.00E+00	4.58E-07	6.33E-08	2.17E-07	0.00E+00	2.80E-07
1456	587941.3	4154198	1.54E-06	3.37E-06	0.00E+00	4.91E-06	3.13E-06	3.41E-06	0.00E+00	6.54E-06	2.49E-07	7.67E-07	0.00E+00	1.02E-06	1.40E-07	4.80E-07	0.00E+00	6.20E-07
1457	587936.2	4154190	1.51E-06	3.3E-06	0.00E+00	4.80E-06	3.06E-06	3.34E-06	0.00E+00	6.40E-06	2.44E-07	7.50E-07	0.00E+00	9.94E-07	1.37E-07	4.70E-07	0.00E+00	6.07E-07
1458	587931.2	4154182	1.47E-06	3.21E-06	0.00E+00	4.68E-06	2.98E-06	3.25E-06	0.00E+00	6.23E-06	2.37E-07	7.31E-07	0.00E+00	9.69E-07	1.34E-07	4.58E-07	0.00E+00	5.92E-07
1459	587926.1	4154174	1.42E-06	3.12E-06	0.00E+00	4.54E-06	2.89E-06	3.16E-06	0.00E+00	6.05E-06	2.30E-07	7.09E-07	0.00E+00	9.39E-07	1.30E-07	4.44E-07	0.00E+00	5.74E-07
1460	587921	4154166	1.37E-06	3.01E-06	0.00E+00	4.39E-06	2.79E-06	3.05E-06	0.00E+00	5.84E-06	2.23E-07	6.85E-07	0.00E+00	9.08E-07	1.25E-07	4.29E-07	0.00E+00	5.55E-07
1461	587915.9	4154157	1.32E-06	2.9E-06	0.00E+00	4.23E-06	2.69E-06	2.94E-06	0.00E+00	5.63E-06	2.14E-07	6.60E-07	0.00E+00	8.74E-07	1.21E-07	4.13E-07	0.00E+00	5.34E-07
1462	587905.7	4154141	1.22E-06	2.67E-06	0.00E+00	3.89E-06	2.47E-06	2.70E-06	0.00E+00	5.18E-06	1.97E-07	6.07E-07	0.00E+00	8.04E-07	1.11E-07	3.80E-07	0.00E+00	4.91E-07
1463	587958.4	4154432	9.87E-07	2.16E-06	0.00E+00	3.15E-06	2.01E-06	2.19E-06	0.00E+00	4.20E-06	1.60E-07	4.92E-07	0.00E+00	6.52E-07	9.01E-08	3.08E-07	0.00E+00	3.98E-07
1464	587953.3	4154440	9.58E-07	2.1E-06	0.00E+00	3.06E-06	1.95E-06	2.12E-06	0.00E+00	4.07E-06	1.55E-07	4.77E-07	0.00E+00	6.33E-07	8.74E-08	2.99E-07	0.00E+00	3.86E-07
1465	587948.2	4154447	9.26E-07	2.03E-06	0.00E+00	2.95E-06	1.88E-06	2.05E-06	0.00E+00	3.93E-06	1.50E-07	4.61E-07	0.00E+00	6.11E-07	8.45E-08	2.89E-07	0.00E+00	3.73E-07
1466	587943.1	4154455	8.92E-07	1.96E-06	0.00E+00	2.85E-06	1.81E-06	1.98E-06	0.00E+00	3.79E-06	1.45E-07	4.45E-07	0.00E+00	5.89E-07	8.15E-08	2.79E-07	0.00E+00	3.60E-07
1467	587933	4154470	8.22E-07	1.8E-06	0.00E+00	2.62E-06	1.67E-06	1.82E-06	0.00E+00	3.49E-06	1.33E-07	4.10E-07	0.00E+00	5.43E-07	7.50E-08	2.57E-07	0.00E+00	3.32E-07
1468	587927.9	4154478	7.84E-07	1.72E-06	0.00E+00	2.50E-06	1.59E-06	1.74E-06	0.00E+00	3.33E-06	1.27E-07	3.91E-07	0.00E+00	5.18E-07	7.16E-08	2.45E-07	0.00E+00	3.16E-07
1469	587922.9	4154485	7.46E-07	1.64E-06	0.00E+00	2.38E-06	1.52E-06	1.66E-06	0.00E+00	3.17E-06	1.21E-07	3.72E-07	0.00E+00	4.93E-07	6.81E-08	2.33E-07	0.00E+00	3.01E-07
1470	587917.8	4154493	7.09E-07	1.55E-06	0.00E+00	2.26E-06	1.44E-06	1.57E-06	0.00E+00	3.01E-06	1.15E-07	3.53E-07	0.00E+00	4.68E-07	6.47E-08	2.21E-07	0.00E+00	2.86E-07
1471	587912.7	4154500	6.71E-07	1.47E-06	0.00E+00	2.14E-06	1.36E-06	1.49E-06	0.00E+00	2.85E-06	1.09E-07	3.35E-07	0.00E+00	4.43E-07	6.13E-08	2.10E-07	0.00E+00	2.71E-07
1472	587907.7	4154508	6.35E-07	1.39E-06	0.00E+00	2.03E-06	1.29E-06	1.41E-06	0.00E+00	2.70E-06	1.03E-07	3.16E-07	0.00E+00	4.19E-07	5.80E-08	1.98E-07	0.00E+00	2.56E-07
1473	587944.7	4154185	1.41E-06	3.09E-06	0.00E+00	4.50E-06	2.86E-06	3.13E-06	0.00E+00	5.99E-06	2.28E-07	7.03E-07	0.00E+00	9.31E-07	1.29E-07	4.40E-07	0.00E+00	5.69E-07
1474	587939.6	4154177	1.37E-06	3.01E-06	0.00E+00	4.38E-06	2.79E-06	3.05E-06	0.00E+00	5.84E-06	2.22E-07	6.85E-07	0.00E+00	9.07E-07	1.25E-07	4.29E-07	0.00E+00	5.54E-07
1475	587934.5	4154168	1.33E-06	2.92E-06	0.00E+00	4.26E-06	2.71E-06	2.96E-06	0.00E+00	5.67E-06	2.16E-07	6.65E-07	0.00E+00	8.81E-07	1.22E-07	4.16E-07	0.00E+00	5.38E-07
1476	587929.5	4154160	1.29E-06	2.83E-06	0.00E+00	4.12E-06	2.62E-06	2.86E-06	0.00E+00	5.49E-06	2.09E-07	6.44E-07	0.00E+00	8.53E-07	1.18E-07	4.03E-07	0.00E+00	5.21E-07
1477	587914.2	4154136	1.15E-06	2.52E-06	0.00E+00	3.67E-06	2.34E-06	2.55E-06	0.00E+00	4.88E-06	1.86E-07	5.73E-07	0.00E+00	7.59E-07	1.05E-07	3.59E-07	0.00E+00	4.64E-07
1478	587966.5	4154437	9.22E-07	2.02E-06	0.00E+00	2.94E-06	1.87E-06	2.05E-06	0.00E+00	3.92E-06	1.49E-07	4.60E-07	0.00E+00	6.09E-07	8.42E-08	2.88E-07	0.00E+00	3.72E-07
1479	587961.2	4154444	8.93E-07	1.96E-06	0.00E+00	2.85E-06	1.82E-06	1.98E-06	0.00E+00	3.80E-06	1.45E-07	4.45E-07	0.00E+00	5.90E-07	8.16E-08	2.79E-07	0.00E+00	3.60E-07
1480	587955.9	4154452	8.63E-07	1.89E-06	0.00E+00	2.75E-06	1.75E-06	1.91E-06	0.00E+00	3.67E-06	1.40E-07	4.30E-07	0.00E+00	5.70E-07	7.88E-08	2.69E-07	0.00E+00	3.48E-07
1481	587950.6	4154460	8.3E-07	1.82E-06	0.00E+00	2.65E-06	1.69E-06	1.84E-06	0.00E+00	3.53E-06	1.35E-07	4.14E-07	0.00E+00	5.49E-07	7.58E-08	2.59E-07	0.00E+00	3.35E-07
1482	587934.7	4154484	7.27E-07	1.59E-06	0.00E+00	2.32E-06	1.48E-06	1.61E-06	0.00E+00	3.09E-06	1.18E-07	3.62E-07	0.00E+00	4.80E-07	6.63E-08	2.27E-07	0.00E+00	2.93E-07
1483	587929.4	4154492	6.9E-07	1.51E-06	0.00E+00	2.20E-06	1.40E-06	1.53E-06	0.00E+00	2.93E-06	1.12E-07	3.44E-07	0.00E+00	4.56E-07	6.30E-08	2.16E-07	0.00E+00	2.79E-07
1484	587924.1	4154500	6.54E-07	1.43E-06	0.00E+00	2.09E-06	1.33E-06	1.45E-06	0.00E+00	2.78E-06	1.06E-07	3.26E-07	0.00E+00	4.32E-07	5.97E-08	2.04E-07	0.00E+00	2.64E-07
1485	587918.8	4154508	6.19E-07	1.36E-06	0.00E+00	1.98E-06	1.26E-06	1.37E-06	0.00E+00	2.63E-06	1.00E-07	3.09E-07	0.00E+00	4.09E-07	5.65E-08	1.93E-07	0.00E+00	2.50E-07
1486	587913.5	4154516	5.85E-07	1.28E-06	0.00E+00	1.87E-06	1.19E-06	1.30E-06	0.00E+00	2.49E-06	9.47E-08	2.91E-07	0.00E+00	3.86E-07	5.34E-08	1.83E-07	0.00E+00	2.36E-07
1487	587953.2	4154179	1.32E-06	2.9E-06	0.00E+00	4.22E-06	2.69E-06	2.93E-06	0.00E+00	5.62E-06	2.14E-07	6.59E-07	0.00E+00	8.74E-07	1.21E-07	4.13E-07	0.00E+00	5.34E-07
1488	587948.1	4154171	1.29E-06	2.83E-06	0.00E+00	4.12E-06	2.62E-06	2.86E-06	0.00E+00	5.48E-06	2.09E-07	6.43E-07	0.00E+00	8.52E-07	1.18E-07	4.03E-07	0.00E+00	5.21E-07
1489	587943	4154163	1.25E-06	2.75E-06	0.00E+00	4.00E-06	2.55E-06	2.78E-06	0.00E+00	5.33E-06	2.03E-07	6.25E-07	0.00E+00	8.28E-07	1.14E-07	3.91E-07	0.00E+00	5.06E-07
1490	587937.9	4154155	1.21E-06	2.66E-06	0.00E+00	3.88E-06	2.47E-06	2.69E-06	0.00E+00	5.16E-06	1.97E-07	6.06E-07	0.00E+00	8.02E-07	1.11E-07	3.79E-07	0.00E+00	4.90E-07
1491	587922.7	4154131	1.09E-06	2.38E-06	0.00E+00	3.47E-06	2.21E-06	2.41E-06	0.00E+00	4.62E-06	1.76E-07	5.42E-07	0.00E+00	7.18E-07	9.92E-08	3.39E-07	0.00E+00	4.38E-07
1492	587971.5	4154446	8.47E-07	1.86E-06	0.00E+00	2.70E-06	1.72E-06	1.88E-06	0.00E+00	3.60E-06	1.37E-07	4.22E-07	0.00E+00	5.60E-07	7.74E-08	2.65E-07	0.00E+00	3.42E-07
1493	587966.3	4154454	8.2E-07	1.8E-06	0.00E+00	2.62E-06	1.67E-06	1.82E-06	0.00E+00	3.49E-06	1.33E-07	4.09E-07	0.00E+00	5.42E-07	7.49E-08	2.56E-07	0.00E+00	3.31E-07
1494	587961	4154462	7.91E-07	1.73E-06	0.00E+00	2.52E-06	1.61E-06	1.75E-06	0.00E+00	3.36E-06	1.28E-07	3.94E-07	0.00E+00	5.22E-07	7.22E-08	2.47E-07	0.00E+00	3.19E-07
1495	587955.8	4154469	7.61E-07	1.67E-06	0.00E+00	2.43E-06	1.55E-06	1.69E-06	0.00E+00	3.24E-06	1.23E-07	3.79E-07	0.00E+00	5.03E-07	6.95E-08	2.38E-07	0.00E+00	3.07E-07
1496	587940.1	4154493	6.66E-07	1.46E-06	0.00E+00	2.13E-06	1.35E-06	1.48E-06	0.00E+00	2.83E-06	1.08E-07	3.32E-07	0.00E+00	4.40E-07	6.08E-08	2.08E-07	0.00E+00	2.69E-07
1497	587934.8	4154501	6.33E-07	1.39E-06	0.00E+00	2.02E-06	1.29E-06	1.40E-06	0.00E+00	2.69E-06	1.03E-07	3.16E-07	0.00E+00	4.18E-07	5.78E-08	1.98E-07	0.00E+00	2.55E-07
1498	587929.6	4154509	6.01E-07	1.32E-06	0.00E+00	1.92E-06	1.22E-06	1.33E-06	0.00E+00	2.55E-06	9.73E-08	3.00E-07	0.00E+00	3.97E-07	5.49E-08	1.88E-07	0.00E+00	2.42E-07
1499	587924.3	4154516	5.69E-07	1.25E-06	0.00E+00	1.82E-06	1.16E-06	1.26E-06	0.00E+00	2.42E-06	9.22E-08	2.84E-07	0.00E+00	3.76E-07	5.20E-08	1.78E-07	0.00E+00	2.30E-07
1500	587919.1	4154524	5.38E-07	1.18E-06	0.00E+00	1.72E-06	1.09E-06	1.19E-06	0.00E+00	2.29E-06	8.72E-08	2.68E-07	0.00E+00	3.56E-07	4.91E-08	1.68E-07	0.00E+00	2.17E-07
1501	587961.7	4154174	1.24E-06	2.73E-06	0.00E+00	3.97E-06	2.53E-06	2.76E-06	0.00E+00	5.29E-06	2.01E-07	6.20E-07	0.00E+00	8.22E-07	1.14E-07	3.88E-07	0.00E+00	5.02E-07
1502	587956.6	4154166	1.21E-06	2.66E-06	0.00E+00	3.88E-06	2.47E-06	2.69E-06	0.00E+00	5.16E-06	1.97E-07	6.05E-07	0.00E+00	8.02E-07	1.11E-07	3.79E-07	0.00E+00	4.90E-07
1503	587951.5	4154158	1.18E-06	2.59E-06	0.00E+00	3.77E-06	2.40E-06	2.62E-06	0.00E+00	5.02E-06	1.91E-07	5.89E-07	0.00E+00	7.80E-07	1.08E-07	3.69E-07	0.00E+00	4.77E-07
1504	587946.4	4154150	1.15E-06	2.51E-06	0.00E+00	3.66E-06	2.33E-06	2.54E-06	0.00E+00	4.87E-06	1.86E-07	5.71E-07	0.00E+00	7.57E-07	1.05E-07	3.58E-07	0.00E+00	4.62E-07
1505	587941.3	4154142	1.11E-06	2.43E-06	0.00E+00	3.54E-06	2.25E-06	2.46E-06	0.00E+00	4.71E-06	1.79E-07	5.52E-07	0.00E+00	7.32E-07	1.01E-07	3.46E-07	0.00E+00	4.47E-07
1506	587936.2	4154133	1.07E-06	2.34E-06	0.00E+00	3.41E-06	2.17E-06	2.37E-06	0.00E+00	4.54E-06	1.73E-07	5.33E-07	0.00E+00	7.06E-07	9.76E-08	3.34E-07	0.00E+00	4.31E-07
1507	587931.2	4154125	1.03E-06	2.26E-06	0.00E+00	3.28E-06	2.09E-06	2.28E-06	0.00E+00	4.37E-06	1.67E-07	5.13E-07	0.00E+00	6.80E-07	9.39E-08	3.21E-07	0.00E+00	4.15E-07
1508	587976.5	4154455	7.8E-07	1.71E-06	0.00E+00	2.49E-06	1.59E-06	1.73E-06	0.00E+00	3.32E-06	1.26E-07	3.89E-07	0.00E+00	5.15E-07	7.12E-08	2.44E-07	0.00E+00	3.15E-07
1509	587971.4	4154463	7.54E-07	1.65E-06	0.00E+00	2.41E-06	1.53E-06	1.67E-06	0.00E+00	3.21E-06	1.22E-07	3.76E-07	0.00E+00	4.98E-07	6.88E-08	2.35E-07	0.00E+00	3.04E-07
1510	587966.2	4154470	7.27E-07	1.59E-06	0.00E+00	2.32E-06	1.48E-06	1.61E-06	0.00E+00	3.09E-06	1.18E-07	3.62E-07	0.00E+00	4.80E-07	6.63E-08	2.27E-07	0.00E+00	2.93E-07
1511	587961	4154478	6.99E-07	1.53E-06	0.00E+00	2.23E-06	1.42E-06	1.55E-06	0.00E+00	2.97E-06	1.13E-07	3.48E-07	0.00E+00	4.61E-07	6.38E-08	2.18E-07	0.00E+00	2.82E-07
1512	587945.4	4154502	6.12E-07	1.34E-06	0.00E+00	1.95E-06	1.24E-06	1.36E-06	0.00E+00	2.60E-06	9.91E-08	3.05E-07	0.00E+00	4.04E-07	5.59E-08	1.91E-07	0.00E+00	2.47E-07
1513	587940.2	4154509	5.82E-07	1.28E-06	0.00E+00	1.86E-06	1.18E-06	1.29E-06	0.00E+00	2.48E-06	9.43E-08	2.90E-07	0.00E+00	3.85E-07	5.32E-08	1.82E-07	0.00E+00	2.35E-07
1514	587935.1	4154517	5.53E-07	1.21E-06	0.00E+00	1.77E-06	1.12E-06	1.23E-06	0.00E+00	2.35E-06	8.96E-08	2.76E-07	0.00E+00	3.65E-07	5.05E-08	1.73E-07	0.00E+00	2.23E-07
1515	587929.9	4154525	5.25E-07	1.15E-06	0.00E+00	1.67E-06	1.07E-06	1.16E-06	0.00E+00	2.23E-06	8.50E-08	2.62E-07	0.00E+00	3.47E-07	4.79E-08	1.64E-07	0.00E+00	2.12E-07
1516	587924.7	4154533	4.97E-07	1.09E-06	0.00E+00	1.59E-06	1.01E-06	1.10E-06	0.00E+00	2.11E-06	8.05E-08	2.48E-07	0.00E+00	3.28E-07	4.54E-08	1.55E-07	0.00E+00	2.01E-07
1517	587965.1	4154161	1.15E-06	2.51E-06	0.00E+00	3.66E-06	2.33E-06	2.54E-06	0.00E+00	4.87E-06	1.86E-07	5.71E-07	0.00E+00	7.57E-07	1.05E-07	3.58E-07	0.00E+00	4.62E-07
1518	587960	4154153	1.12E-06	2.44E-06	0.00E+00	3.56E-06	2.27E-06	2.47E-06	0.00E+00	4.74E-06	1.81E-07	5.56E-07	0.00E+00	7.36E-07	1.02E-07	3.48E-07	0.00E+00	4.50E-07
1519	587954.9	4154144	1.08E-06	2.37E-06	0.00E+00	3.45E-06	2.20E-06	2.40E-06	0.00E+00	4.60E-06	1.75E-07	5.40E-07	0.00E+00	7.15E-07	9.88E-08	3.38E-07	0.00E+00	4.37E-07
1520	587949.8	4154136	1.05E-06	2.3E-06	0.00E+00	3.34E-06	2.13E-06	2.32E-06	0.00E+00	4.45E-06	1.70E-07	5.22E-07	0.00E+00	6.92E-07	9.57E-08	3.27E-07	0.00E+00	4.23E-07
1521	587944.7	4154128	1.01E-06	2.22E-06	0.00E+00	3.23E-06	2.06E-06	2.25E-06	0.00E+00	4.30E-06	1.64E-07	5.05E-07	0.00E+00	6.69E-07	9.24E-08	3.16E-07	0.00E+00	4.08E-07
1522	587939.6	4154120	9.76E-07	2.14E-06	0.00E+00	3.12E-06	1.98E-06	2.17E-06	0.00E+00	4.15E-06	1.58E-07	4.87E-07	0.00E+00	6.45E-07	8.91E-08	3.05E-07	0.00E+00	3.94E-07
1523	587981.6	4154464	7.2E-07	1.58E-06	0.00E+00	2.30E-06	1.46E-06	1.60E-06	0.00E+00	3.06E-06	1.17E-07	3.59E-07	0.00E+00	4.75E-07	6.57E-08	2.25E-07	0.00E+00	2.90E-07
1524	587976.5	4154472	6.95E-07	1.52E-06	0.00E+00	2.22E-06	1.41E-06	1.54E-06	0.00E+00	2.95E-06	1.13E-07	3.46E-07	0.00E+00	4.59E-07	6.34E-08	2.17E-07	0.00E+00	2.80E-07
1525	587971.4	4154479	6.69E-07	1.47E-06	0.00E+00	2.14E-06	1.36E-06	1.48E-06	0.00E+00	2.85E-06	1.08E-07	3.34E-07	0.00E+00	4.42E-07	6.11E-08	2.09E-07	0.00E+00	2.70E-07
1526	587966.2	4154487	6.43E-07	1.41E-06	0.00E+00	2.05E-06	1.31E-06	1.43E-06	0.00E+00	2.73E-06	1.04E-07	3.21E-07	0.00E+00	4.25E-07	5.87E-08	2.01E-07	0.00E+00	2.59E-07
1527	587950.8	4154510	5.64E-07	1.24E-06	0.00E+00	1.80E-06	1.15E-06	1.25E-06	0.00E+00	2.40E-06	9.13E-08	2.81E-07	0.00E+00	3.72E-07	5.15E-08	1.76E-07	0.00E+00	2.28E-07
1528	587945.7	4154518	5.37E-07	1.18E-06	0.00E+00	1.71E-06	1.09E-06	1.19E-06	0.00E+00	2.28E-06	8.70E-08	2.68E-07	0.00E+00	3.55E-07	4.90E-08	1.68E-07	0.00E+00	2.17E-07
1529	587940.6	4154526	5.11E-07	1.12E-06	0.00E+00	1.63E-06	1.04E-06	1.13E-06	0.00E+00	2.17E-06	8.27E-08	2.55E-07	0.00E+00	3.37E-07	4.66E-08	1.59E-07	0.00E+00	2.06E-07
1530	587935.4	4154533	4.85E-07	1.06E-06	0.00E+00	1.55E-06	9.86E-07	1.08E-06	0.00E+00	2.06E-06	7.86E-08	2.42E-07	0.00E+00	3.20E-07	4.43E-08	1.51E-07	0.00E+00	1.96E-07
1531	587930.3	4154541	4.6E-07	1.01E-06	0.00E+00	1.47E-06	9.36E-07	1.02E-06	0.00E+00	1.96E-06	7.45E-08	2.29E-07	0.00E+00	3.04E-07	4.20E-08	1.44E-07	0.00E+00	1.86E-07
1532	587973.5	4154155	1.08E-06	2.37E-06	0.00E+00	3.45E-06	2.20E-06	2.40E-06	0.00E+00	4.60E-06	1.75E-07	5.40E-07	0.00E+00	7.15E-07	9.88E-08	3.38E-07	0.00E+00	4.37E-07
1533	587968.5	4154147	1.05E-06	2.31E-06	0.00E+00	3.37E-06	2.14E-06	2.34E-06	0.00E+00	4.48E-06	1.71E-07	5.26E-07	0.00E+00	6.96E-07	9.63E-08	3.29E-07	0.00E+00	4.25E-07
1534	587963.4	4154139	1.02E-06	2.25E-06	0.00E+00	3.27E-06	2.08E-06	2.27E-06	0.00E+00	4.35E-06	1.66E-07	5.11E-07	0.00E+00	6.77E-07	9.35E-08	3.20E-07	0.00E+00	4.13E-07
1535	587958.3	4154131	9.93E-07	2.18E-06	0.00E+00	3.17E-06	2.02E-06	2.20E-06	0.00E+00	4.22E-06	1.61E-07	4.95E-07	0.00E+00	6.56E-07	9.06E-08	3.10E-07	0.00E+00	4.01E-07
1536	587953.2	4154123	9.6E-07	2.1E-06	0.00E+00	3.06E-06	1.95E-06	2.13E-06	0.00E+00	4.08E-06	1.56E-07	4.79E-07	0.00E+00	6.34E-07	8.77E-08	3.00E-07	0.00E+00	3.87E-07
1537	587948.1	4154115	9.27E-07	2.03E-06	0.00E+00	2.96E-06	1.88E-06	2.06E-06	0.00E+00	3.94E-06	1.50E-07	4.62E-07	0.00E+00	6.12E-07	8.47E-08	2.89E-07	0.00E+00	3.74E-07

1538	587986.8	4154473	6.65E-07	1.46E-06	0.00E+00	2.12E-06	1.35E-06	1.47E-06	0.00E+00	2.83E-06	1.08E-07	3.31E-07	0.00E+00	4.39E-07	6.07E-08	2.08E-07	0.00E+00	2.68E-07
1539	587981.7	4154481	6.42E-07	1.41E-06	0.00E+00	2.05E-06	1.30E-06	1.42E-06	0.00E+00	2.73E-06	1.04E-07	3.20E-07	0.00E+00	4.24E-07	5.86E-08	2.00E-07	0.00E+00	2.59E-07
1540	587976.6	4154488	6.18E-07	1.35E-06	0.00E+00	1.97E-06	1.26E-06	1.37E-06	0.00E+00	2.63E-06	1.00E-07	3.08E-07	0.00E+00	4.08E-07	5.64E-08	1.93E-07	0.00E+00	2.49E-07
1541	587971.5	4154496	5.93E-07	1.3E-06	0.00E+00	1.89E-06	1.21E-06	1.32E-06	0.00E+00	2.52E-06	9.61E-08	2.96E-07	0.00E+00	3.92E-07	5.42E-08	1.85E-07	0.00E+00	2.39E-07
1542	587956.2	4154519	5.21E-07	1.14E-06	0.00E+00	1.66E-06	1.06E-06	1.16E-06	0.00E+00	2.22E-06	8.44E-08	2.60E-07	0.00E+00	3.44E-07	4.76E-08	1.63E-07	0.00E+00	2.10E-07
1543	587951.2	4154526	4.97E-07	1.09E-06	0.00E+00	1.59E-06	1.01E-06	1.10E-06	0.00E+00	2.11E-06	8.05E-08	2.48E-07	0.00E+00	3.28E-07	4.54E-08	1.55E-07	0.00E+00	2.00E-07
1544	587946.1	4154534	4.73E-07	1.04E-06	0.00E+00	1.51E-06	9.61E-07	1.05E-06	0.00E+00	2.01E-06	7.66E-08	2.36E-07	0.00E+00	3.12E-07	4.32E-08	1.48E-07	0.00E+00	1.91E-07
1545	587941	4154542	4.5E-07	9.86E-07	0.00E+00	1.44E-06	9.14E-07	9.98E-07	0.00E+00	1.91E-06	7.28E-08	2.24E-07	0.00E+00	2.97E-07	4.11E-08	1.40E-07	0.00E+00	1.81E-07
1546	587935.9	4154549	4.27E-07	9.37E-07	0.00E+00	1.36E-06	8.69E-07	9.48E-07	0.00E+00	1.82E-06	6.92E-08	2.13E-07	0.00E+00	2.82E-07	3.90E-08	1.33E-07	0.00E+00	1.72E-07
1547	587976.9	4154142	9.99E-07	2.19E-06	0.00E+00	3.19E-06	2.03E-06	2.22E-06	0.00E+00	4.25E-06	1.62E-07	4.98E-07	0.00E+00	6.60E-07	9.12E-08	3.12E-07	0.00E+00	4.03E-07
1548	587971.9	4154134	9.71E-07	2.13E-06	0.00E+00	3.10E-06	1.97E-06	2.15E-06	0.00E+00	4.13E-06	1.57E-07	4.84E-07	0.00E+00	6.41E-07	8.87E-08	3.03E-07	0.00E+00	3.92E-07
1549	587966.8	4154126	9.42E-07	2.06E-06	0.00E+00	3.01E-06	1.91E-06	2.09E-06	0.00E+00	4.00E-06	1.53E-07	4.70E-07	0.00E+00	6.22E-07	8.60E-08	2.94E-07	0.00E+00	3.80E-07
1550	587961.7	4154118	9.12E-07	2E-06	0.00E+00	2.91E-06	1.85E-06	2.02E-06	0.00E+00	3.88E-06	1.48E-07	4.55E-07	0.00E+00	6.03E-07	8.33E-08	2.85E-07	0.00E+00	3.68E-07
1551	587956.6	4154109	8.82E-07	1.93E-06	0.00E+00	2.81E-06	1.79E-06	1.96E-06	0.00E+00	3.75E-06	1.43E-07	4.40E-07	0.00E+00	5.82E-07	8.05E-08	2.75E-07	0.00E+00	3.56E-07
1552	587994.5	4154478	6.26E-07	1.37E-06	0.00E+00	2.00E-06	1.27E-06	1.39E-06	0.00E+00	2.66E-06	1.01E-07	3.12E-07	0.00E+00	4.13E-07	5.72E-08	1.95E-07	0.00E+00	2.53E-07
1553	587989.2	4154486	6.04E-07	1.32E-06	0.00E+00	1.93E-06	1.23E-06	1.34E-06	0.00E+00	2.57E-06	9.78E-08	3.01E-07	0.00E+00	3.99E-07	5.51E-08	1.88E-07	0.00E+00	2.44E-07
1554	587983.9	4154494	5.81E-07	1.27E-06	0.00E+00	1.85E-06	1.18E-06	1.29E-06	0.00E+00	2.47E-06	9.41E-08	2.90E-07	0.00E+00	3.84E-07	5.30E-08	1.81E-07	0.00E+00	2.34E-07
1555	587978.7	4154502	5.57E-07	1.22E-06	0.00E+00	1.78E-06	1.13E-06	1.24E-06	0.00E+00	2.37E-06	9.03E-08	2.78E-07	0.00E+00	3.68E-07	5.09E-08	1.74E-07	0.00E+00	2.25E-07
1556	587962.8	4154526	4.88E-07	1.07E-06	0.00E+00	1.56E-06	9.92E-07	1.08E-06	0.00E+00	2.07E-06	7.90E-08	2.43E-07	0.00E+00	3.22E-07	4.45E-08	1.52E-07	0.00E+00	1.97E-07
1557	587957.5	4154534	4.65E-07	1.02E-06	0.00E+00	1.48E-06	9.44E-07	1.03E-06	0.00E+00	1.98E-06	7.53E-08	2.32E-07	0.00E+00	3.07E-07	4.24E-08	1.45E-07	0.00E+00	1.87E-07
1558	587952.3	4154541	4.42E-07	9.69E-07	0.00E+00	1.41E-06	8.98E-07	9.80E-07	0.00E+00	1.88E-06	7.16E-08	2.20E-07	0.00E+00	2.92E-07	4.04E-08	1.38E-07	0.00E+00	1.78E-07
1559	587947	4154549	4.2E-07	9.2E-07	0.00E+00	1.34E-06	8.53E-07	9.31E-07	0.00E+00	1.78E-06	6.80E-08	2.09E-07	0.00E+00	2.77E-07	3.83E-08	1.31E-07	0.00E+00	1.69E-07
1560	587941.7	4154557	3.99E-07	8.74E-07	0.00E+00	1.27E-06	8.10E-07	8.84E-07	0.00E+00	1.69E-06	6.46E-08	1.99E-07	0.00E+00	2.63E-07	3.64E-08	1.24E-07	0.00E+00	1.61E-07
1561	587980.3	4154129	9.22E-07	2.02E-06	0.00E+00	2.94E-06	1.87E-06	2.05E-06	0.00E+00	3.92E-06	1.49E-07	4.60E-07	0.00E+00	6.09E-07	8.42E-08	2.88E-07	0.00E+00	3.72E-07
1562	587975.3	4154120	8.95E-07	1.96E-06	0.00E+00	2.86E-06	1.82E-06	1.99E-06	0.00E+00	3.81E-06	1.45E-07	4.46E-07	0.00E+00	5.92E-07	8.18E-08	2.80E-07	0.00E+00	3.61E-07
1563	587970.2	4154112	8.68E-07	1.9E-06	0.00E+00	2.77E-06	1.76E-06	1.93E-06	0.00E+00	3.69E-06	1.41E-07	4.33E-07	0.00E+00	5.73E-07	7.92E-08	2.71E-07	0.00E+00	3.50E-07
1564	587965.1	4154104	8.4E-07	1.84E-06	0.00E+00	2.68E-06	1.71E-06	1.86E-06	0.00E+00	3.57E-06	1.36E-07	4.19E-07	0.00E+00	5.55E-07	7.67E-08	2.62E-07	0.00E+00	3.39E-07
1565	587999.6	4154487	5.8E-07	1.27E-06	0.00E+00	1.85E-06	1.18E-06	1.29E-06	0.00E+00	2.47E-06	9.40E-08	2.89E-07	0.00E+00	3.83E-07	5.30E-08	1.81E-07	0.00E+00	2.34E-07
1566	587994.4	4154495	5.59E-07	1.23E-06	0.00E+00	1.79E-06	1.14E-06	1.24E-06	0.00E+00	2.38E-06	9.06E-08	2.79E-07	0.00E+00	3.70E-07	5.11E-08	1.75E-07	0.00E+00	2.26E-07
1567	587989.1	4154503	5.38E-07	1.18E-06	0.00E+00	1.72E-06	1.09E-06	1.19E-06	0.00E+00	2.29E-06	8.71E-08	2.68E-07	0.00E+00	3.55E-07	4.91E-08	1.68E-07	0.00E+00	2.17E-07
1568	587983.9	4154511	5.16E-07	1.13E-06	0.00E+00	1.65E-06	1.05E-06	1.15E-06	0.00E+00	2.20E-06	8.36E-08	2.58E-07	0.00E+00	3.41E-07	4.72E-08	1.61E-07	0.00E+00	2.08E-07
1569	587968.2	4154534	4.53E-07	9.92E-07	0.00E+00	1.45E-06	9.20E-07	1.00E-06	0.00E+00	1.92E-06	7.33E-08	2.26E-07	0.00E+00	2.99E-07	4.13E-08	1.41E-07	0.00E+00	1.83E-07
1570	587963	4154542	4.32E-07	9.46E-07	0.00E+00	1.38E-06	8.77E-07	9.58E-07	0.00E+00	1.83E-06	6.99E-08	2.15E-07	0.00E+00	2.85E-07	3.94E-08	1.35E-07	0.00E+00	1.74E-07
1571	587957.8	4154550	4.11E-07	9.01E-07	0.00E+00	1.31E-06	8.35E-07	9.12E-07	0.00E+00	1.75E-06	6.66E-08	2.05E-07	0.00E+00	2.71E-07	3.75E-08	1.28E-07	0.00E+00	1.66E-07
1572	587952.5	4154558	3.91E-07	8.57E-07	0.00E+00	1.25E-06	7.95E-07	8.68E-07	0.00E+00	1.66E-06	6.33E-08	1.95E-07	0.00E+00	2.58E-07	3.57E-08	1.22E-07	0.00E+00	1.58E-07
1573	587947.3	4154566	3.72E-07	8.15E-07	0.00E+00	1.19E-06	7.56E-07	8.25E-07	0.00E+00	1.58E-06	6.02E-08	1.85E-07	0.00E+00	2.46E-07	3.39E-08	1.16E-07	0.00E+00	1.50E-07
1574	587978.6	4154107	8.27E-07	1.81E-06	0.00E+00	2.64E-06	1.68E-06	1.83E-06	0.00E+00	3.52E-06	1.34E-07	4.12E-07	0.00E+00	5.46E-07	7.55E-08	2.58E-07	0.00E+00	3.34E-07
1575	587973.6	4154099	8.01E-07	1.76E-06	0.00E+00	2.56E-06	1.63E-06	1.78E-06	0.00E+00	3.41E-06	1.30E-07	3.99E-07	0.00E+00	5.29E-07	7.31E-08	2.50E-07	0.00E+00	3.23E-07
1576	588004.7	4154496	5.39E-07	1.18E-06	0.00E+00	1.72E-06	1.10E-06	1.20E-06	0.00E+00	2.29E-06	8.73E-08	2.69E-07	0.00E+00	3.56E-07	4.92E-08	1.68E-07	0.00E+00	2.17E-07
1577	587999.6	4154504	5.19E-07	1.14E-06	0.00E+00	1.66E-06	1.06E-06	1.15E-06	0.00E+00	2.21E-06	8.41E-08	2.59E-07	0.00E+00	3.43E-07	4.74E-08	1.62E-07	0.00E+00	2.10E-07
1578	587994.4	4154512	5E-07	1.09E-06	0.00E+00	1.59E-06	1.02E-06	1.11E-06	0.00E+00	2.12E-06	8.09E-08	2.49E-07	0.00E+00	3.30E-07	4.56E-08	1.56E-07	0.00E+00	2.02E-07
1579	587989.2	4154520	4.8E-07	1.05E-06	0.00E+00	1.53E-06	9.75E-07	1.06E-06	0.00E+00	2.04E-06	7.77E-08	2.39E-07	0.00E+00	3.17E-07	4.38E-08	1.50E-07	0.00E+00	1.94E-07
1580	587973.6	4154543	4.21E-07	9.23E-07	0.00E+00	1.34E-06	8.56E-07	9.34E-07	0.00E+00	1.79E-06	6.82E-08	2.10E-07	0.00E+00	2.78E-07	3.85E-08	1.31E-07	0.00E+00	1.70E-07
1581	587968.5	4154551	4.02E-07	8.81E-07	0.00E+00	1.28E-06	8.17E-07	8.92E-07	0.00E+00	1.71E-06	6.51E-08	2.00E-07	0.00E+00	2.65E-07	3.67E-08	1.25E-07	0.00E+00	1.62E-07
1582	587963.3	4154558	3.83E-07	8.4E-07	0.00E+00	1.22E-06	7.79E-07	8.50E-07	0.00E+00	1.63E-06	6.21E-08	1.91E-07	0.00E+00	2.53E-07	3.50E-08	1.20E-07	0.00E+00	1.55E-07
1583	587958.1	4154566	3.65E-07	8E-07	0.00E+00	1.17E-06	7.42E-07	8.10E-07	0.00E+00	1.55E-06	5.91E-08	1.82E-07	0.00E+00	2.41E-07	3.33E-08	1.14E-07	0.00E+00	1.47E-07
1584	587952.9	4154574	3.48E-07	7.62E-07	0.00E+00	1.11E-06	7.06E-07	7.71E-07	0.00E+00	1.48E-06	5.63E-08	1.73E-07	0.00E+00	2.30E-07	3.17E-08	1.09E-07	0.00E+00	1.40E-07
1585	587982	4154094	7.65E-07	1.68E-06	0.00E+00	2.44E-06	1.56E-06	1.70E-06	0.00E+00	3.25E-06	1.24E-07	3.81E-07	0.00E+00	5.05E-07	6.99E-08	2.39E-07	0.00E+00	3.09E-07
1586	588009.9	4154505	5.01E-07	1.1E-06	0.00E+00	1.60E-06	1.02E-06	1.11E-06	0.00E+00	2.13E-06	8.12E-08	2.50E-07	0.00E+00	3.31E-07	4.58E-08	1.57E-07	0.00E+00	2.02E-07
1587	588004.8	4154513	4.83E-07	1.06E-06	0.00E+00	1.54E-06	9.82E-07	1.07E-06	0.00E+00	2.05E-06	7.82E-08	2.41E-07	0.00E+00	3.19E-07	4.41E-08	1.51E-07	0.00E+00	1.95E-07
1588	587999.6	4154521	4.65E-07	1.02E-06	0.00E+00	1.48E-06	9.44E-07	1.03E-06	0.00E+00	1.98E-06	7.53E-08	2.32E-07	0.00E+00	3.07E-07	4.24E-08	1.45E-07	0.00E+00	1.87E-07
1589	587994.5	4154528	4.46E-07	9.78E-07	0.00E+00	1.42E-06	9.07E-07	9.90E-07	0.00E+00	1.90E-06	7.23E-08	2.22E-07	0.00E+00	2.95E-07	4.07E-08	1.39E-07	0.00E+00	1.80E-07
1590	587979.1	4154551	3.93E-07	8.6E-07	0.00E+00	1.25E-06	7.98E-07	8.71E-07	0.00E+00	1.67E-06	6.36E-08	1.96E-07	0.00E+00	2.59E-07	3.58E-08	1.23E-07	0.00E+00	1.58E-07
1591	587973.9	4154559	3.75E-07	8.22E-07	0.00E+00	1.20E-06	7.62E-07	8.32E-07	0.00E+00	1.59E-06	6.07E-08	1.87E-07	0.00E+00	2.48E-07	3.42E-08	1.17E-07	0.00E+00	1.51E-07
1592	587968.8	4154567	3.58E-07	7.85E-07	0.00E+00	1.14E-06	7.28E-07	7.94E-07	0.00E+00	1.52E-06	5.80E-08	1.78E-07	0.00E+00	2.36E-07	3.27E-08	1.12E-07	0.00E+00	1.44E-07
1593	587963.6	4154574	3.41E-07	7.48E-07	0.00E+00	1.09E-06	6.94E-07	7.58E-07	0.00E+00	1.45E-06	5.53E-08	1.70E-07	0.00E+00	2.26E-07	3.12E-08	1.07E-07	0.00E+00	1.38E-07
1594	587958.5	4154582	3.26E-07	7.14E-07	0.00E+00	1.04E-06	6.62E-07	7.22E-07	0.00E+00	1.38E-06	5.27E-08	1.62E-07	0.00E+00	2.15E-07	2.97E-08	1.02E-07	0.00E+00	1.31E-07
1595	587704.5	4154232	5.17E-06	1.13E-05	0.00E+00	1.65E-05	1.05E-05	1.15E-05	0.00E+00	2.20E-05	8.38E-07	2.58E-06	0.00E+00	3.42E-06	4.72E-07	1.62E-06	0.00E+00	2.09E-06
1596	587713.5	4154218	3.9E-06	8.54E-06	0.00E+00	1.24E-05	7.92E-06	8.65E-06	0.00E+00	1.66E-05	6.31E-07	1.94E-06	0.00E+00	2.57E-06	3.56E-07	1.22E-06	0.00E+00	1.57E-06
1597	587699.1	4154223	4.17E-06	9.13E-06	0.00E+00	1.33E-05	8.47E-06	9.25E-06	0.00E+00	1.77E-05	6.75E-07	2.08E-06	0.00E+00	2.75E-06	3.81E-07	1.30E-06	0.00E+00	1.68E-06
1598	587708	4154209	3.25E-06	7.13E-06	0.00E+00	1.04E-05	6.61E-06	7.22E-06	0.00E+00	1.38E-05	5.27E-07	1.62E-06	0.00E+00	2.15E-06	2.97E-07	1.02E-06	0.00E+00	1.31E-06
1599	587693.6	4154215	3.45E-06	7.56E-06	0.00E+00	1.10E-05	7.01E-06	7.65E-06	0.00E+00	1.47E-05	5.58E-07	1.72E-06	0.00E+00	2.28E-06	3.15E-07	1.08E-06	0.00E+00	1.39E-06
1600	587688.2	4154207	2.91E-06	6.38E-06	0.00E+00	9.29E-06	5.92E-06	6.46E-06	0.00E+00	1.24E-05	4.71E-07	1.45E-06	0.00E+00	1.92E-06	2.66E-07	9.09E-07	0.00E+00	1.17E-06
1601	587727.6	4154187	2.37E-06	5.2E-06	0.00E+00	7.58E-06	4.83E-06	5.27E-06	0.00E+00	1.01E-05	3.85E-07	1.18E-06	0.00E+00	1.57E-06	2.17E-07	7.41E-07	0.00E+00	9.58E-07
1602	587706.9	4154181	2.08E-06	4.55E-06	0.00E+00	6.63E-06	4.22E-06	4.61E-06	0.00E+00	8.83E-06	3.36E-07	1.04E-06	0.00E+00	1.37E-06	1.90E-07	6.48E-07	0.00E+00	8.38E-07
1603	587722.1	4154179	2.08E-06	4.55E-06	0.00E+00	6.63E-06	4.22E-06	4.61E-06	0.00E+00	8.83E-06	3.37E-07	1.04E-06	0.00E+00	1.37E-06	1.90E-07	6.49E-07	0.00E+00	8.38E-07
1604	587737.4	4154176	2.07E-06	4.54E-06	0.00E+00	6.61E-06	4.21E-06	4.59E-06	0.00E+00	8.80E-06	3.35E-07	1.03E-06	0.00E+00	1.37E-06	1.89E-07	6.46E-07	0.00E+00	8.35E-07
1605	587701.5	4154173	1.83E-06	4.01E-06	0.00E+00	5.84E-06	3.72E-06	4.06E-06	0.00E+00	7.78E-06	2.96E-07	9.12E-07	0.00E+00	1.21E-06	1.67E-07	5.71E-07	0.00E+00	7.38E-07
1606	587716.7	4154170	1.83E-06	4.02E-06	0.00E+00	5.85E-06	3.73E-06	4.07E-06	0.00E+00	7.79E-06	2.97E-07	9.14E-07	0.00E+00	1.21E-06	1.67E-07	5.72E-07	0.00E+00	7.40E-07
1607	587731.9	4154167	1.83E-06	4.02E-06	0.00E+00	5.85E-06	3.73E-06	4.07E-06	0.00E+00	7.79E-06	2.97E-07	9.14E-07	0.00E+00	1.21E-06	1.67E-07	5.72E-07	0.00E+00	7.40E-07
1608	587680.8	4154167	1.62E-06	3.56E-06	0.00E+00	5.18E-06	3.30E-06	3.60E-06	0.00E+00	6.90E-06	2.63E-07	8.10E-07	0.00E+00	1.07E-06	1.48E-07	5.07E-07	0.00E+00	6.55E-07
1609	587711.3	4154162	1.63E-06	3.57E-06	0.00E+00	5.20E-06	3.31E-06	3.61E-06	0.00E+00	6.92E-06	2.64E-07	8.12E-07	0.00E+00	1.08E-06	1.49E-07	5.09E-07	0.00E+00	6.57E-07
1610	587726.5	4154159	1.63E-06	3.58E-06	0.00E+00	5.21E-06	3.32E-06	3.62E-06	0.00E+00	6.94E-06	2.65E-07	8.14E-07	0.00E+00	1.08E-06	1.49E-07	5.10E-07	0.00E+00	6.59E-07
1611	587741.7	4154156	1.63E-06	3.58E-06	0.00E+00	5.21E-06	3.32E-06	3.62E-06	0.00E+00	6.94E-06	2.64E-07	8.14E-07	0.00E+00	1.08E-06	1.49E-07	5.10E-07	0.00E+00	6.59E-07
1612	587666.4	4154173	1.69E-06	3.7E-06	0.00E+00	5.39E-06	3.43E-06	3.74E-06	0.00E+00	7.17E-06	2.73E-07	8.41E-07	0.00E+00	1.11E-06	1.54E-07	5.27E-07	0.00E+00	6.81E-07
1613	587675.4	4154159	1.45E-06	3.19E-06	0.00E+00	4.64E-06	2.95E-06	3.22E-06	0.00E+00	6.18E-06	2.35E-07	7.25E-07	0.00E+00	9.60E-07	1.33E-07	4.54E-07	0.00E+00	5.87E-07
1614	587690.6	4154156	1.45E-06	3.19E-06	0.00E+00	4.64E-06	2.95E-06	3.22E-06	0.00E+00	6.18E-06	2.35E-07	7.25E-07	0.00E+00	9.60E-07	1.33E-07	4.54E-07	0.00E+00	5.87E-07
1615	587705.8	4154153	1.46E-06	3.19E-06	0.00E+00	4.65E-06	2.96E-06	3.23E-06	0.00E+00	6.19E-06	2.36E-07	7.26E-07	0.00E+00	9.62E-07	1.33E-07	4.55E-07	0.00E+00	5.88E-07
1616	587721	4154151	1.46E-06	3.21E-06	0.00E+00	4.67E-06	2.97E-06	3.25E-06	0.00E+00	6.22E-06	2.37E-07	7.30E-07	0.00E+00	9.66E-07	1.34E-07	4.57E-07	0.00E+00	5.90E-07
1617	587736.2	4154148	1.47E-06	3.22E-06	0.00E+00	4.68E-06	2.98E-06	3.25E-06	0.00E+00	6.24E-06	2.38E-07	7.32E-07	0.00E+00	9.69E-07	1.34E-07	4.58E-07	0.00E+00	5.92E-07
1618	587783	4154167	1.93E-06	4.24E-06	0.00E+00	6.17E-06	3.93E-06	4.29E-06	0.00E+00	8.21E-06	3.13E-07	9.63E-07	0.00E+00	1.28E-06	1.76E-07	6.03E-07	0.00E+00	7.80E-07
1619	587795.7	4154176	2.13E-06	4.67E-06	0.00E+00	6.80E-06	4.33E-06	4.73E-06	0.00E+00	9.06E-06	3.45E-07	1.06E-06	0.00E+00	1.41E-06	1.95E-07	6.65E-07	0.00E+00	8.60E-07
1620	587661	4154165	1.51E-06	3.31E-06	0.00E+00	4.82E-06	3.07E-06	3.35E-06	0.00E+00	6.41E-06	2.44E-07	7.52E-07	0.00E+00	9.97E-07	1.38E-07	4.71E-07	0.00E+00	6.09E-07
1621	587669.9	4154150	1.31E-06	2.87E-06	0.00E+00	4.18E-06	2.66E-06	2.91E-06	0.00E+00	5.57E-06	2.12E-07	6.53E-07	0.00E+00	8.66E-07	1.20E-07	4.09E-07	0.00E+00	5.29E-07
1622	587685.1	4154148	1.31E-06	2.87E-06	0.00E+00	4.18E-06	2.66E-06	2.90E-06	0.00E+00	5.57E-06	2.12E-07	6.53E-07	0.00E+00	8.65E-07	1.20E-07	4.09E-07	0.00E+00	5.28E-07
1623	587715.6	4154142	1.32E-06	2.89E-06	0.00E+00	4.21E-06	2.68E-06	2.92E-06	0.00E+00	5.60E-06	2.13E-07	6.57E-07	0.00E+00	8.70E-07	1.20E-07	4.11E-07	0.00E+00	5.32E-07
1624	587730.8	4154139	1.32E-06	2.9E-06	0.00E+00	4.23E-06	2.69E-06	2.94E-06	0.00E+00	5.63E-06	2.14E-07	6.60E-07	0.00E+00	8.75E-07	1.21E-07	4.13E-07	0.00E+00	5.34E-07
1625	587772.6	4154149	1.56E-06	3.42E-06	0.00E+00	4.98E-06	3.17E-06	3.46E-06	0.00E+00	6.63E-06	2.53E-07	7.78E-07	0.00E+00	1.03E-06	1.42E-07	4.87E-07	0.00E+00	6.29E-07
1626	587785.2	4154158	1.73E-06	3.79E-06	0.00E+00	5.51E-06	3.51E-06	3.83E-06	0.00E+00	7.34E-06	2.80E-07	8.61E-07	0.00E+00	1.14E-06	1.58E-07	5.39E-07	0.00E+00	6.97E-07
1627	587797.8	4154167	1.9E-06	4.16E-06	0.00E+00	6.06E-06	3.86E-06	4.21E-06	0.00E+00	8.07E-06	3.07E-07	9.46E-07	0.00E+00	1.25E-06	1.73E-07	5.92E-07	0.00E+00	7.66E-07
1628	587810.5	4154176	2.06E-06	4.53E-06	0.00E+00	6.59E-06	4.20E-06	4.58E-06	0.00E+00	8.78E-06	3.34E-07	1.03E-06	0.00E+00	1.36E-06	1.89E-07	6.45E-07	0.00E+00	8.33E-07
1629	587655.5	4154156	1.36E-06	2.98E-06	0.00E+00	4.34E-06	2.76E-06	3.02E-06	0.00E+00	5.78E-06	2.20E-07	6.78E-07	0.00E+00	8.98E-07	1.24E-07	4.24E-07	0.00E+00	5.48E-07
1630	587664.5	4154142	1.19E-06	2.61E-06	0.00E+00	3.79E-06	2.42E-06	2.64E-06	0.00E+00	5.05E-06	1.93E-07	5.93E-07	0.00E+00	7.85E-07	1.09E-07	3.71E-07	0.00E+00	4.80E-07
1631	587679.7	4154139	1.19E-06	2.6E-06	0.00E+00	3.79E-06	2.41E-06	2.63E-06	0.00E+00	5.04E-06	1.92E-07	5.91E-07	0.00E+00	7.84E-07	1.08E-07	3.70E-07	0.00E+00	4.79E-07
1632	587710.1	4154134	1.19E-06	2.61E-06	0.00E+00	3.81E-06	2.42E-06	2.65E-06	0.00E+00	5.07E-06	1.93E-07	5.95E-07	0.00E+00	7.88E-07	1.09E-07	3.72E-07	0.00E+00	4.81E-07
1633	587725.4	4154131	1.2E-06	2.63E-06	0.00E+00	3.83E-06	2.44E-06	2.66E-06	0.00E+00	5.10E-06	1.94E-07	5.98E-07	0.00E+00	7.93E-07	1.10E-07	3.75E-07	0.00E+00	4.84E-07
1634	587740.6	4154128	1.21E-06	2.64E-06	0.00E+00	3.85E-06	2.45E-06	2.67E-06	0.00E+00	5.12E-06	1.95E-07	6.01E-07	0.00E+00	7.96E-07	1.10E-07	3.76E-07	0.00E+00	4.86E-07
1635	587774.7	4154139	1.41E-06	3.09E-06	0.00E+00	4.50E-06	2.87E-06	3.13E-06	0.00E+00	5.99E-06	2.28E-07	7.03E-07	0.00E+00	9.31E-07	1.29E-07	4.40E-07	0.00E+00	5.69E-07
1636	587787.4	4154148	1.55E-06	3.41E-06	0.00E+00	4.96E-06	3.16E-06	3.45E-06	0.00E+00	6.61E-06	2.52E-07	7.75E-07	0.00E+00	1.03E-06	1.42E-07	4.85E-07	0.00E+00	6.27E-07
1637	587800	4154157	1.7E-06	3.73E-06	0.00E+00	5.43E-06	3.46E-06	3.78E-06	0.00E+00	7.24E-06	2.76E-07	8.49E-07	0.00E+00	1.12E-06	1.55E-07	5.31E-07	0.00E+00	6.87E-07
1638	587812.6	4154166	1.85E-06	4.05E-06	0.00E+00	5.90E-06	3.76E-06	4.10E-06	0.00E+00	7.86E-06	2.99E-07	9.21E-07	0.00E+00	1.22E-06	1.69E-07	5.77E-07	0.00E+00	7.46E-07
1639	587825.3	4154175	1.99E-06	4.35E-06	0.00E+00	6.34E-06	4.04E-06	4.40E-06	0.00E+00	8.44E-06	3.22E-07	9.90E-07	0.00E+00	1.31E-06	1.81E-07	6.20E-07	0.00E+00	8.01E-07
1640	587650.1	4154148	1.23E-06	2.7E-06	0.00E+00	3.93E-06	2.50E-06	2.73E-06	0.00E+00	5.24E-06	2.00E-07	6.14E-07	0.00E+00	8.14E-07	1.13E-07	3.85E-07	0.00E+00	4.97E-07
1641	587674.3	4154131	1.08E-06	2.37E-06	0.00E+00	3.45E-06	2.20E-06	2.40E-06	0.00E+00	4.60E-06	1.75E-07	5.39E-07	0.00E+00	7.14E-07	9.87E-08	3.37E-07	0.00E+00	4.36E-07
1642	587704.7	4154125	1.09E-06	2.38E-06	0.00E+00	3.46E-06	2.21E-06	2.41E-06	0.00E+00	4.61E-06	1.76E-07	5.41E-07	0.00E+00	7.17E-07	9.91E-08	3.39E-07	0.00E+00	4.38E-07
1643	587719.9	4154123	1.09E-06	2.39E-06	0.00E+00	3.49E-06	2.22E-06	2.42E-06	0.00E+00	4.64E-06	1.77E-07	5.44E-07	0.00E+00	7.21E-07	9.97E-08	3.41E-07	0.00E+00	4.41E-07
1644	587735.1	4154120	1.1E-06	2.41E-06	0.00E+00	3.51E-06	2.23E-06	2.44E-06	0.00E+00	4.67E-06	1.78E-07	5.48E-07	0.00E+00	7.26E-07	1.00E-07	3.43E-07	0.00E+00	4.43E-07
1645	587776.9	4154129	1.28E-06	2.81E-06	0.00E+00	4.09E-06	2.61E-06	2.84E-06	0.00E+00	5.45E-06	2.08E-07	6.39E-07	0.00E+00	8.47E-07	1.17E-07	4.00E-07	0.00E+00	5.17E-07
1646	587789.5	4154138	1.41E-06	3.09E-06	0.00E+00	4.49E-06	2.86E-06	3.12E-06	0.00E+00	5.99E-06	2.28E-07	7.02E-07	0.00E+00	9.30E-07	1.29E-07	4.40E-07	0.00E+00	5.68E-07
1647	587802.2	4154147	1.54E-06	3.37E-06	0.00E+00	4.91E-06	3.12E-06	3.41E-06	0.00E+00	6.53E-06	2.49E-07	7.66E-07	0.00E+00	1.02E-06	1.40E-07	4.80E-07	0.00E+00	6.20E-07

1648	587814.8	4154156	1.66E-06	3.65E-06	0.00E+00	5.31E-06	3.38E-06	3.69E-06	0.00E+00	7.07E-06	2.70E-07	8.30E-07	0.00E+00	1.10E-06	1.52E-07	5.20E-07	0.00E+00	6.71E-07
1649	587827.4	4154165	1.79E-06	3.92E-06	0.00E+00	5.70E-06	3.63E-06	3.96E-06	0.00E+00	7.59E-06	2.89E-07	8.91E-07	0.00E+00	1.18E-06	1.63E-07	5.58E-07	0.00E+00	7.21E-07
1650	587644.6	4154140	1.12E-06	2.46E-06	0.00E+00	3.59E-06	2.28E-06	2.49E-06	0.00E+00	4.78E-06	1.82E-07	5.60E-07	0.00E+00	7.42E-07	1.03E-07	3.51E-07	0.00E+00	4.54E-07
1651	587714.5	4154114	9.98E-07	2.19E-06	0.00E+00	3.18E-06	2.03E-06	2.21E-06	0.00E+00	4.24E-06	1.62E-07	4.97E-07	0.00E+00	6.59E-07	9.11E-08	3.11E-07	0.00E+00	4.03E-07
1652	587729.7	4154112	1.01E-06	2.2E-06	0.00E+00	3.21E-06	2.04E-06	2.23E-06	0.00E+00	4.27E-06	1.63E-07	5.01E-07	0.00E+00	6.64E-07	9.18E-08	3.14E-07	0.00E+00	4.06E-07
1653	587779.1	4154119	1.17E-06	2.57E-06	0.00E+00	3.74E-06	2.38E-06	2.60E-06	0.00E+00	4.98E-06	1.90E-07	5.84E-07	0.00E+00	7.74E-07	1.07E-07	3.66E-07	0.00E+00	4.73E-07
1654	587791.7	4154128	1.28E-06	2.81E-06	0.00E+00	4.09E-06	2.61E-06	2.85E-06	0.00E+00	5.45E-06	2.08E-07	6.39E-07	0.00E+00	8.47E-07	1.17E-07	4.00E-07	0.00E+00	5.18E-07
1655	587804.3	4154137	1.4E-06	3.06E-06	0.00E+00	4.45E-06	2.84E-06	3.10E-06	0.00E+00	5.93E-06	2.26E-07	6.96E-07	0.00E+00	9.22E-07	1.27E-07	4.36E-07	0.00E+00	5.63E-07
1656	587817	4154146	1.51E-06	3.3E-06	0.00E+00	4.81E-06	3.06E-06	3.34E-06	0.00E+00	6.41E-06	2.44E-07	7.52E-07	0.00E+00	9.96E-07	1.38E-07	4.71E-07	0.00E+00	6.08E-07
1657	587829.6	4154155	1.62E-06	3.54E-06	0.00E+00	5.16E-06	3.29E-06	3.59E-06	0.00E+00	6.87E-06	2.62E-07	8.06E-07	0.00E+00	1.07E-06	1.48E-07	5.05E-07	0.00E+00	6.52E-07
1658	587842.2	4154164	1.72E-06	3.76E-06	0.00E+00	5.48E-06	3.49E-06	3.81E-06	0.00E+00	7.30E-06	2.78E-07	8.56E-07	0.00E+00	1.13E-06	1.57E-07	5.36E-07	0.00E+00	6.93E-07
1659	587648.1	4154117	9.17E-07	2.01E-06	0.00E+00	2.93E-06	1.86E-06	2.03E-06	0.00E+00	3.90E-06	1.48E-07	4.57E-07	0.00E+00	6.06E-07	8.37E-08	2.86E-07	0.00E+00	3.70E-07
1660	587663.4	4154114	9.11E-07	2E-06	0.00E+00	2.91E-06	1.85E-06	2.02E-06	0.00E+00	3.87E-06	1.48E-07	4.54E-07	0.00E+00	6.02E-07	8.32E-08	2.85E-07	0.00E+00	3.68E-07
1661	587678.6	4154111	9.09E-07	1.99E-06	0.00E+00	2.90E-06	1.85E-06	2.02E-06	0.00E+00	3.86E-06	1.47E-07	4.53E-07	0.00E+00	6.00E-07	8.30E-08	2.84E-07	0.00E+00	3.67E-07
1662	587709	4154106	9.15E-07	2.01E-06	0.00E+00	2.92E-06	1.86E-06	2.03E-06	0.00E+00	3.89E-06	1.48E-07	4.56E-07	0.00E+00	6.05E-07	8.36E-08	2.86E-07	0.00E+00	3.69E-07
1663	587724.2	4154103	9.22E-07	2.02E-06	0.00E+00	2.94E-06	1.87E-06	2.05E-06	0.00E+00	3.92E-06	1.49E-07	4.60E-07	0.00E+00	6.09E-07	8.42E-08	2.88E-07	0.00E+00	3.72E-07
1664	587768.6	4154101	9.8E-07	2.15E-06	0.00E+00	3.13E-06	1.99E-06	2.17E-06	0.00E+00	4.17E-06	1.59E-07	4.89E-07	0.00E+00	6.48E-07	8.95E-08	3.06E-07	0.00E+00	3.96E-07
1665	587781.2	4154110	1.08E-06	2.36E-06	0.00E+00	3.43E-06	2.19E-06	2.39E-06	0.00E+00	4.57E-06	1.74E-07	5.36E-07	0.00E+00	7.10E-07	9.82E-08	3.36E-07	0.00E+00	4.34E-07
1666	587793.9	4154119	1.17E-06	2.57E-06	0.00E+00	3.75E-06	2.39E-06	2.60E-06	0.00E+00	4.99E-06	1.90E-07	5.85E-07	0.00E+00	7.75E-07	1.07E-07	3.66E-07	0.00E+00	4.74E-07
1667	587806.5	4154128	1.27E-06	2.79E-06	0.00E+00	4.07E-06	2.59E-06	2.83E-06	0.00E+00	5.41E-06	2.06E-07	6.35E-07	0.00E+00	8.41E-07	1.16E-07	3.98E-07	0.00E+00	5.14E-07
1668	587844.4	4154154	1.56E-06	3.42E-06	0.00E+00	4.98E-06	3.17E-06	3.46E-06	0.00E+00	6.64E-06	2.53E-07	7.78E-07	0.00E+00	1.03E-06	1.43E-07	4.87E-07	0.00E+00	6.30E-07
1669	587633.7	4154123	9.5E-07	2.08E-06	0.00E+00	3.03E-06	1.93E-06	2.11E-06	0.00E+00	4.04E-06	1.54E-07	4.73E-07	0.00E+00	6.27E-07	8.67E-08	2.96E-07	0.00E+00	3.83E-07
1670	587642.7	4154109	8.49E-07	1.86E-06	0.00E+00	2.71E-06	1.72E-06	1.88E-06	0.00E+00	3.61E-06	1.37E-07	4.23E-07	0.00E+00	5.60E-07	7.75E-08	2.65E-07	0.00E+00	3.42E-07
1671	587657.9	4154106	8.42E-07	1.85E-06	0.00E+00	2.69E-06	1.71E-06	1.87E-06	0.00E+00	3.58E-06	1.36E-07	4.20E-07	0.00E+00	5.56E-07	7.69E-08	2.63E-07	0.00E+00	3.40E-07
1672	587673.1	4154103	8.39E-07	1.84E-06	0.00E+00	2.68E-06	1.71E-06	1.86E-06	0.00E+00	3.57E-06	1.36E-07	4.18E-07	0.00E+00	5.54E-07	7.66E-08	2.62E-07	0.00E+00	3.39E-07
1673	587703.6	4154098	8.43E-07	1.85E-06	0.00E+00	2.69E-06	1.71E-06	1.87E-06	0.00E+00	3.58E-06	1.37E-07	4.20E-07	0.00E+00	5.57E-07	7.70E-08	2.63E-07	0.00E+00	3.40E-07
1674	587718.8	4154095	8.49E-07	1.86E-06	0.00E+00	2.71E-06	1.73E-06	1.88E-06	0.00E+00	3.61E-06	1.38E-07	4.23E-07	0.00E+00	5.61E-07	7.75E-08	2.65E-07	0.00E+00	3.43E-07
1675	587770.8	4154091	9.06E-07	1.99E-06	0.00E+00	2.89E-06	1.84E-06	2.01E-06	0.00E+00	3.85E-06	1.47E-07	4.52E-07	0.00E+00	5.98E-07	8.27E-08	2.83E-07	0.00E+00	3.66E-07
1676	587783.4	4154100	9.91E-07	2.17E-06	0.00E+00	3.16E-06	2.01E-06	2.20E-06	0.00E+00	4.21E-06	1.60E-07	4.94E-07	0.00E+00	6.54E-07	9.05E-08	3.09E-07	0.00E+00	4.00E-07
1677	587796	4154109	1.08E-06	2.36E-06	0.00E+00	3.44E-06	2.19E-06	2.39E-06	0.00E+00	4.59E-06	1.75E-07	5.38E-07	0.00E+00	7.13E-07	9.85E-08	3.37E-07	0.00E+00	4.35E-07
1678	587808.7	4154118	1.17E-06	2.56E-06	0.00E+00	3.73E-06	2.37E-06	2.59E-06	0.00E+00	4.96E-06	1.89E-07	5.82E-07	0.00E+00	7.71E-07	1.07E-07	3.65E-07	0.00E+00	4.71E-07
1679	587833.9	4154136	1.34E-06	2.94E-06	0.00E+00	4.29E-06	2.73E-06	2.98E-06	0.00E+00	5.71E-06	2.17E-07	6.70E-07	0.00E+00	8.87E-07	1.23E-07	4.19E-07	0.00E+00	5.42E-07
1680	587628.3	4154114	8.79E-07	1.93E-06	0.00E+00	2.80E-06	1.79E-06	1.95E-06	0.00E+00	3.74E-06	1.42E-07	4.38E-07	0.00E+00	5.80E-07	8.02E-08	2.74E-07	0.00E+00	3.55E-07
1681	587637.3	4154100	7.88E-07	1.73E-06	0.00E+00	2.52E-06	1.60E-06	1.75E-06	0.00E+00	3.35E-06	1.28E-07	3.93E-07	0.00E+00	5.21E-07	7.20E-08	2.46E-07	0.00E+00	3.18E-07
1682	587652.5	4154097	7.82E-07	1.71E-06	0.00E+00	2.50E-06	1.59E-06	1.73E-06	0.00E+00	3.32E-06	1.27E-07	3.90E-07	0.00E+00	5.16E-07	7.14E-08	2.44E-07	0.00E+00	3.15E-07
1683	587667.7	4154095	7.78E-07	1.7E-06	0.00E+00	2.48E-06	1.58E-06	1.73E-06	0.00E+00	3.31E-06	1.26E-07	3.88E-07	0.00E+00	5.14E-07	7.10E-08	2.43E-07	0.00E+00	3.14E-07
1684	587698.1	4154089	7.79E-07	1.71E-06	0.00E+00	2.49E-06	1.58E-06	1.73E-06	0.00E+00	3.31E-06	1.26E-07	3.89E-07	0.00E+00	5.15E-07	7.11E-08	2.43E-07	0.00E+00	3.14E-07
1685	587713.4	4154086	7.84E-07	1.72E-06	0.00E+00	2.50E-06	1.59E-06	1.74E-06	0.00E+00	3.33E-06	1.27E-07	3.91E-07	0.00E+00	5.18E-07	7.16E-08	2.45E-07	0.00E+00	3.16E-07
1686	587759	4154078	8.02E-07	1.76E-06	0.00E+00	2.56E-06	1.63E-06	1.78E-06	0.00E+00	3.41E-06	1.30E-07	4.00E-07	0.00E+00	5.30E-07	7.33E-08	2.50E-07	0.00E+00	3.24E-07
1687	587772.9	4154081	8.4E-07	1.84E-06	0.00E+00	2.68E-06	1.71E-06	1.86E-06	0.00E+00	3.57E-06	1.36E-07	4.19E-07	0.00E+00	5.55E-07	7.67E-08	2.62E-07	0.00E+00	3.39E-07
1688	587785.6	4154090	9.16E-07	2.01E-06	0.00E+00	2.93E-06	1.86E-06	2.03E-06	0.00E+00	3.90E-06	1.48E-07	4.57E-07	0.00E+00	6.05E-07	8.37E-08	2.86E-07	0.00E+00	3.70E-07
1689	587798.2	4154099	9.95E-07	2.18E-06	0.00E+00	3.18E-06	2.02E-06	2.21E-06	0.00E+00	4.23E-06	1.61E-07	4.96E-07	0.00E+00	6.57E-07	9.09E-08	3.11E-07	0.00E+00	4.02E-07
1690	587823.4	4154117	1.15E-06	2.53E-06	0.00E+00	3.69E-06	2.35E-06	2.56E-06	0.00E+00	4.91E-06	1.87E-07	5.76E-07	0.00E+00	7.63E-07	1.05E-07	3.60E-07	0.00E+00	4.66E-07
1691	587836.1	4154126	1.23E-06	2.7E-06	0.00E+00	3.93E-06	2.50E-06	2.73E-06	0.00E+00	5.24E-06	2.00E-07	6.14E-07	0.00E+00	8.14E-07	1.13E-07	3.85E-07	0.00E+00	4.97E-07
1692	587848.7	4154135	1.31E-06	2.86E-06	0.00E+00	4.17E-06	2.66E-06	2.90E-06	0.00E+00	5.55E-06	2.12E-07	6.51E-07	0.00E+00	8.63E-07	1.19E-07	4.08E-07	0.00E+00	5.27E-07
1693	587622.9	4154106	8.16E-07	1.79E-06	0.00E+00	2.61E-06	1.66E-06	1.81E-06	0.00E+00	3.47E-06	1.32E-07	4.07E-07	0.00E+00	5.39E-07	7.45E-08	2.55E-07	0.00E+00	3.29E-07
1694	587631.8	4154092	7.35E-07	1.61E-06	0.00E+00	2.35E-06	1.49E-06	1.63E-06	0.00E+00	3.12E-06	1.19E-07	3.66E-07	0.00E+00	4.86E-07	6.71E-08	2.29E-07	0.00E+00	2.97E-07
1695	587647	4154089	7.28E-07	1.6E-06	0.00E+00	2.32E-06	1.48E-06	1.62E-06	0.00E+00	3.10E-06	1.18E-07	3.63E-07	0.00E+00	4.81E-07	6.65E-08	2.27E-07	0.00E+00	2.94E-07
1696	587662.3	4154086	7.23E-07	1.59E-06	0.00E+00	2.31E-06	1.47E-06	1.61E-06	0.00E+00	3.08E-06	1.17E-07	3.61E-07	0.00E+00	4.78E-07	6.61E-08	2.26E-07	0.00E+00	2.92E-07
1697	587692.7	4154081	7.23E-07	1.58E-06	0.00E+00	2.31E-06	1.47E-06	1.60E-06	0.00E+00	3.07E-06	1.17E-07	3.60E-07	0.00E+00	4.78E-07	6.60E-08	2.26E-07	0.00E+00	2.92E-07
1698	587707.9	4154078	7.27E-07	1.59E-06	0.00E+00	2.32E-06	1.48E-06	1.61E-06	0.00E+00	3.09E-06	1.18E-07	3.62E-07	0.00E+00	4.80E-07	6.64E-08	2.27E-07	0.00E+00	2.93E-07
1699	587753.6	4154070	7.45E-07	1.63E-06	0.00E+00	2.38E-06	1.51E-06	1.65E-06	0.00E+00	3.17E-06	1.21E-07	3.71E-07	0.00E+00	4.92E-07	6.80E-08	2.32E-07	0.00E+00	3.00E-07
1700	587775.1	4154071	7.82E-07	1.71E-06	0.00E+00	2.50E-06	1.59E-06	1.73E-06	0.00E+00	3.32E-06	1.27E-07	3.90E-07	0.00E+00	5.16E-07	7.14E-08	2.44E-07	0.00E+00	3.15E-07
1701	587787.7	4154080	8.5E-07	1.86E-06	0.00E+00	2.71E-06	1.73E-06	1.89E-06	0.00E+00	3.62E-06	1.38E-07	4.24E-07	0.00E+00	5.62E-07	7.76E-08	2.66E-07	0.00E+00	3.43E-07
1702	587800.4	4154089	9.21E-07	2.02E-06	0.00E+00	2.94E-06	1.87E-06	2.04E-06	0.00E+00	3.92E-06	1.49E-07	4.59E-07	0.00E+00	6.09E-07	8.41E-08	2.88E-07	0.00E+00	3.72E-07
1703	587825.6	4154107	1.07E-06	2.33E-06	0.00E+00	3.40E-06	2.16E-06	2.36E-06	0.00E+00	4.53E-06	1.72E-07	5.31E-07	0.00E+00	7.04E-07	9.72E-08	3.33E-07	0.00E+00	4.30E-07
1704	587838.2	4154116	1.14E-06	2.49E-06	0.00E+00	3.62E-06	2.31E-06	2.52E-06	0.00E+00	4.83E-06	1.84E-07	5.66E-07	0.00E+00	7.50E-07	1.04E-07	3.54E-07	0.00E+00	4.58E-07
1705	587850.9	4154125	1.2E-06	2.64E-06	0.00E+00	3.84E-06	2.44E-06	2.67E-06	0.00E+00	5.11E-06	1.95E-07	6.00E-07	0.00E+00	7.94E-07	1.10E-07	3.75E-07	0.00E+00	4.85E-07
1706	587863.5	4154134	1.27E-06	2.77E-06	0.00E+00	4.04E-06	2.57E-06	2.81E-06	0.00E+00	5.38E-06	2.05E-07	6.31E-07	0.00E+00	8.36E-07	1.16E-07	3.95E-07	0.00E+00	5.11E-07
1707	587617.4	4154098	7.61E-07	1.67E-06	0.00E+00	2.43E-06	1.55E-06	1.69E-06	0.00E+00	3.23E-06	1.23E-07	3.79E-07	0.00E+00	5.03E-07	6.95E-08	2.38E-07	0.00E+00	3.07E-07
1708	587626.4	4154083	6.87E-07	1.51E-06	0.00E+00	2.19E-06	1.40E-06	1.53E-06	0.00E+00	2.92E-06	1.11E-07	3.43E-07	0.00E+00	4.54E-07	6.28E-08	2.15E-07	0.00E+00	2.77E-07
1709	587641.6	4154081	6.81E-07	1.49E-06	0.00E+00	2.17E-06	1.38E-06	1.51E-06	0.00E+00	2.89E-06	1.10E-07	3.39E-07	0.00E+00	4.49E-07	6.21E-08	2.12E-07	0.00E+00	2.75E-07
1710	587656.8	4154078	6.75E-07	1.48E-06	0.00E+00	2.16E-06	1.37E-06	1.50E-06	0.00E+00	2.87E-06	1.09E-07	3.37E-07	0.00E+00	4.46E-07	6.17E-08	2.11E-07	0.00E+00	2.72E-07
1711	587687.2	4154072	6.73E-07	1.47E-06	0.00E+00	2.15E-06	1.37E-06	1.49E-06	0.00E+00	2.86E-06	1.09E-07	3.36E-07	0.00E+00	4.44E-07	6.14E-08	2.10E-07	0.00E+00	2.72E-07
1712	587702.5	4154070	6.76E-07	1.48E-06	0.00E+00	2.16E-06	1.37E-06	1.50E-06	0.00E+00	2.87E-06	1.09E-07	3.37E-07	0.00E+00	4.46E-07	6.17E-08	2.11E-07	0.00E+00	2.73E-07
1713	587717.7	4154067	6.81E-07	1.49E-06	0.00E+00	2.17E-06	1.38E-06	1.51E-06	0.00E+00	2.89E-06	1.10E-07	3.39E-07	0.00E+00	4.50E-07	6.22E-08	2.13E-07	0.00E+00	2.75E-07
1714	587748.1	4154061	6.92E-07	1.52E-06	0.00E+00	2.21E-06	1.41E-06	1.54E-06	0.00E+00	2.94E-06	1.12E-07	3.45E-07	0.00E+00	4.57E-07	6.32E-08	2.16E-07	0.00E+00	2.79E-07
1715	587763.3	4154059	6.96E-07	1.53E-06	0.00E+00	2.22E-06	1.42E-06	1.54E-06	0.00E+00	2.96E-06	1.13E-07	3.47E-07	0.00E+00	4.60E-07	6.36E-08	2.17E-07	0.00E+00	2.81E-07
1716	587777.3	4154062	7.28E-07	1.6E-06	0.00E+00	2.32E-06	1.48E-06	1.62E-06	0.00E+00	3.10E-06	1.18E-07	3.63E-07	0.00E+00	4.81E-07	6.65E-08	2.27E-07	0.00E+00	2.94E-07
1717	587789.9	4154071	7.91E-07	1.73E-06	0.00E+00	2.52E-06	1.61E-06	1.75E-06	0.00E+00	3.36E-06	1.28E-07	3.94E-07	0.00E+00	5.22E-07	7.22E-08	2.47E-07	0.00E+00	3.19E-07
1718	587802.5	4154080	8.55E-07	1.87E-06	0.00E+00	2.73E-06	1.74E-06	1.90E-06	0.00E+00	3.63E-06	1.38E-07	4.26E-07	0.00E+00	5.65E-07	7.81E-08	2.67E-07	0.00E+00	3.45E-07
1719	587827.8	4154097	9.85E-07	2.16E-06	0.00E+00	3.14E-06	2.00E-06	2.19E-06	0.00E+00	4.19E-06	1.60E-07	4.91E-07	0.00E+00	6.51E-07	9.00E-08	3.08E-07	0.00E+00	3.98E-07
1720	587840.4	4154106	1.05E-06	2.3E-06	0.00E+00	3.35E-06	2.13E-06	2.33E-06	0.00E+00	4.46E-06	1.70E-07	5.23E-07	0.00E+00	6.93E-07	9.58E-08	3.28E-07	0.00E+00	4.23E-07
1721	587853	4154115	1.11E-06	2.43E-06	0.00E+00	3.54E-06	2.26E-06	2.46E-06	0.00E+00	4.72E-06	1.80E-07	5.54E-07	0.00E+00	7.34E-07	1.01E-07	3.47E-07	0.00E+00	4.48E-07
1722	587865.7	4154124	1.17E-06	2.56E-06	0.00E+00	3.73E-06	2.38E-06	2.59E-06	0.00E+00	4.97E-06	1.89E-07	5.83E-07	0.00E+00	7.72E-07	1.07E-07	3.65E-07	0.00E+00	4.72E-07
1723	587878.3	4154133	1.22E-06	2.68E-06	0.00E+00	3.90E-06	2.49E-06	2.71E-06	0.00E+00	5.20E-06	1.98E-07	6.10E-07	0.00E+00	8.08E-07	1.12E-07	3.82E-07	0.00E+00	4.93E-07
1724	587612	4154089	7.12E-07	1.56E-06	0.00E+00	2.27E-06	1.45E-06	1.58E-06	0.00E+00	3.02E-06	1.15E-07	3.55E-07	0.00E+00	4.70E-07	6.50E-08	2.22E-07	0.00E+00	2.87E-07
1725	587620.9	4154075	6.45E-07	1.41E-06	0.00E+00	2.06E-06	1.31E-06	1.43E-06	0.00E+00	2.74E-06	1.04E-07	3.21E-07	0.00E+00	4.26E-07	5.89E-08	2.01E-07	0.00E+00	2.60E-07
1726	587636.1	4154072	6.38E-07	1.4E-06	0.00E+00	2.04E-06	1.30E-06	1.42E-06	0.00E+00	2.71E-06	1.03E-07	3.18E-07	0.00E+00	4.21E-07	5.82E-08	1.99E-07	0.00E+00	2.57E-07
1727	587651.4	4154069	6.32E-07	1.39E-06	0.00E+00	2.02E-06	1.29E-06	1.40E-06	0.00E+00	2.69E-06	1.02E-07	3.15E-07	0.00E+00	4.18E-07	5.77E-08	1.97E-07	0.00E+00	2.55E-07
1728	587681.8	4154064	6.28E-07	1.38E-06	0.00E+00	2.01E-06	1.28E-06	1.39E-06	0.00E+00	2.67E-06	1.02E-07	3.13E-07	0.00E+00	4.15E-07	5.74E-08	1.96E-07	0.00E+00	2.54E-07
1729	587697	4154061	6.3E-07	1.38E-06	0.00E+00	2.01E-06	1.28E-06	1.40E-06	0.00E+00	2.68E-06	1.02E-07	3.14E-07	0.00E+00	4.16E-07	5.76E-08	1.97E-07	0.00E+00	2.54E-07
1730	587712.2	4154059	6.34E-07	1.39E-06	0.00E+00	2.02E-06	1.29E-06	1.41E-06	0.00E+00	2.70E-06	1.03E-07	3.16E-07	0.00E+00	4.19E-07	5.79E-08	1.98E-07	0.00E+00	2.56E-07
1731	587742.7	4154053	6.45E-07	1.41E-06	0.00E+00	2.06E-06	1.31E-06	1.43E-06	0.00E+00	2.74E-06	1.05E-07	3.22E-07	0.00E+00	4.26E-07	5.89E-08	2.01E-07	0.00E+00	2.60E-07
1732	587757.9	4154050	6.5E-07	1.42E-06	0.00E+00	2.07E-06	1.32E-06	1.44E-06	0.00E+00	2.76E-06	1.05E-07	3.24E-07	0.00E+00	4.29E-07	5.93E-08	2.03E-07	0.00E+00	2.62E-07
1733	587779.4	4154052	6.81E-07	1.49E-06	0.00E+00	2.17E-06	1.38E-06	1.51E-06	0.00E+00	2.89E-06	1.10E-07	3.39E-07	0.00E+00	4.50E-07	6.21E-08	2.12E-07	0.00E+00	2.75E-07
1734	587792.1	4154061	7.37E-07	1.62E-06	0.00E+00	2.35E-06	1.50E-06	1.64E-06	0.00E+00	3.13E-06	1.19E-07	3.68E-07	0.00E+00	4.87E-07	6.73E-08	2.30E-07	0.00E+00	2.98E-07
1735	587829.9	4154088	9.13E-07	2E-06	0.00E+00	2.92E-06	1.86E-06	2.03E-06	0.00E+00	3.88E-06	1.48E-07	4.55E-07	0.00E+00	6.03E-07	8.34E-08	2.85E-07	0.00E+00	3.69E-07
1736	587842.6	4154097	9.73E-07	2.13E-06	0.00E+00	3.10E-06	1.98E-06	2.16E-06	0.00E+00	4.13E-06	1.58E-07	4.85E-07	0.00E+00	6.42E-07	8.88E-08	3.04E-07	0.00E+00	3.92E-07
1737	587855.2	4154106	1.03E-06	2.26E-06	0.00E+00	3.28E-06	2.09E-06	2.28E-06	0.00E+00	4.37E-06	1.67E-07	5.13E-07	0.00E+00	6.80E-07	9.40E-08	3.21E-07	0.00E+00	4.15E-07
1738	587867.8	4154114	1.08E-06	2.37E-06	0.00E+00	3.45E-06	2.20E-06	2.40E-06	0.00E+00	4.60E-06	1.75E-07	5.40E-07	0.00E+00	7.15E-07	9.88E-08	3.38E-07	0.00E+00	4.37E-07
1739	587880.5	4154123	1.13E-06	2.48E-06	0.00E+00	3.61E-06	2.30E-06	2.51E-06	0.00E+00	4.81E-06	1.83E-07	5.64E-07	0.00E+00	7.48E-07	1.03E-07	3.53E-07	0.00E+00	4.57E-07
1740	587893.1	4154132	1.18E-06	2.58E-06	0.00E+00	3.76E-06	2.39E-06	2.61E-06	0.00E+00	5.01E-06	1.91E-07	5.87E-07	0.00E+00	7.78E-07	1.08E-07	3.68E-07	0.00E+00	4.75E-07
1741	587606.5	4154081	6.67E-07	1.46E-06	0.00E+00	2.13E-06	1.36E-06	1.48E-06	0.00E+00	2.84E-06	1.08E-07	3.33E-07	0.00E+00	4.41E-07	6.09E-08	2.08E-07	0.00E+00	2.69E-07
1742	587615.8	4154067	6.06E-07	1.33E-06	0.00E+00	1.93E-06	1.23E-06	1.34E-06	0.00E+00	2.58E-06	9.82E-08	3.02E-07	0.00E+00	4.00E-07	5.53E-08	1.89E-07	0.00E+00	2.45E-07
1743	587631.8	4154064	5.99E-07	1.31E-06	0.00E+00	1.91E-06	1.22E-06	1.33E-06	0.00E+00	2.55E-06	9.70E-08	2.99E-07	0.00E+00	3.96E-07	5.47E-08	1.87E-07	0.00E+00	2.42E-07
1744	587647.7	4154061	5.93E-07	1.3E-06	0.00E+00	1.89E-06	1.21E-06	1.32E-06	0.00E+00	2.52E-06	9.61E-08	2.96E-07	0.00E+00	3.92E-07	5.42E-08	1.85E-07	0.00E+00	2.39E-07
1745	587679.6	4154055	5.89E-07	1.29E-06	0.00E+00	1.88E-06	1.20E-06	1.31E-06	0.00E+00	2.50E-06	9.53E-08	2.94E-07	0.00E+00	3.89E-07	5.38E-08	1.84E-07	0.00E+00	2.38E-07
1746	587695.6	4154052	5.9E-07	1.29E-06	0.00E+00	1.88E-06	1.20E-06	1.31E-06	0.00E+00	2.51E-06	9.56E-08	2.94E-07	0.00E+00	3.90E-07	5.39E-08	1.84E-07	0.00E+00	2.38E-07
1747	587743.4	4154044	6.05E-07	1.33E-06	0.00E+00	1.93E-06	1.23E-06	1.34E-06	0.00E+00	2.57E-06	9.80E-08	3.02E-07	0.00E+00	4.00E-07	5.52E-08	1.89E-07	0.00E+00	2.44E-07
1748	587759.3	4154041	6.09E-07	1.34E-06	0.00E+00	1.95E-06	1.24E-06	1.35E-06	0.00E+00	2.59E-06	9.87E-08	3.04E-07	0.00E+00	4.03E-07	5.56E-08	1.90E-07	0.00E+00	2.46E-07
1749	587781.9	4154042	6.4E-07	1.4E-06	0.00E+00	2.04E-06	1.30E-06	1.42E-06	0.00E+00	2.72E-06	1.04E-07	3.19E-07	0.00E+00	4.22E-07	5.84E-08	2.00E-07	0.00E+00	2.58E-07
1750	587834.8	4154080	8.62E-07	1.89E-06	0.00E+00	2.75E-06	1.75E-06	1.91E-06	0.00E+00	3.66E-06	1.40E-07	4.30E-07	0.00E+00	5.69E-07	7.87E-08	2.69E-07	0.00E+00	3.48E-07
1751	587848	4154089	9.17E-07	2.01E-06	0.00E+00	2.93E-06	1.86E-06	2.03E-06	0.00E+00	3.90E-06	1.49E-07	4.57E-07	0.00E+00	6.06E-07	8.38E-08	2.86E-07	0.00E+00	3.70E-07
1752	587861.3	4154099	9.71E-07	2.13E-06	0.00E+00	3.10E-06	1.97E-06	2.16E-06	0.00E+00	4.13E-06	1.57E-07	4.84E-07	0.00E+00	6.42E-07	8.87E-08	3.03E-07	0.00E+00	3.92E-07
1753	587874.5	4154108	1.02E-06	2.24E-06	0.00E+00	3.26E-06	2.08E-06	2.27E-06	0.00E+00	4.34E-06	1.66E-07	5.10E-07	0.00E+00	6.75E-07	9.33E-08	3.19E-07	0.00E+00	4.12E-07
1754	587887.7	4154117	1.07E-06	2.34E-06	0.00E+00	3.41E-06	2.17E-06	2.37E-06	0.00E+00	4.54E-06	1.73E-07	5.33E-07	0.00E+00	7.06E-07	9.76E-08	3.34E-07	0.00E+00	4.31E-07
1755	587901	4154127	1.11E-06	2.44E-06	0.00E+00	3.55E-06	2.26E-06	2.47E-06	0.00E+00	4.73E-06	1.80E-07	5.54E-07	0.00E+00	7.34E-07	1.02E-07	3.47E-07	0.00E+00	4.49E-07
1756	587601.1	4154072	6.27E-07	1.37E-06	0.00E+00	2.00E-06	1.27E-06	1.39E-06	0.00E+00	2.66E-06	1.02E-07	3.12E-07	0.00E+00	4.14E-07	5.72E-08	1.96E-07	0.00E+00	2.53E-07
1757	587610.4	4154058	5.71E-07	1.25E-06	0.00E+00	1.82E-06	1.16E-06	1.27E-06	0.00E+00	2.43E-06	9.25E-08	2.85E-07	0.00E+00	3.77E-07	5.21E-08	1.78E-07	0.00E+00	2.30E-07

1758	587626.3	4154055	5.64E-07	1.24E-06	0.00E+00	1.80E-06	1.15E-06	1.25E-06	0.00E+00	2.40E-06	9.14E-08	2.81E-07	0.00E+00	3.73E-07	5.15E-08	1.76E-07	0.00E+00	2.28E-07
1759	587642.2	4154052	5.59E-07	1.22E-06	0.00E+00	1.78E-06	1.14E-06	1.24E-06	0.00E+00	2.38E-06	9.05E-08	2.79E-07	0.00E+00	3.69E-07	5.10E-08	1.74E-07	0.00E+00	2.25E-07
1760	587674	4154047	5.53E-07	1.21E-06	0.00E+00	1.76E-06	1.12E-06	1.23E-06	0.00E+00	2.35E-06	8.95E-08	2.76E-07	0.00E+00	3.65E-07	5.05E-08	1.73E-07	0.00E+00	2.23E-07
1761	587689.9	4154044	5.53E-07	1.21E-06	0.00E+00	1.77E-06	1.13E-06	1.23E-06	0.00E+00	2.35E-06	8.96E-08	2.76E-07	0.00E+00	3.66E-07	5.05E-08	1.73E-07	0.00E+00	2.23E-07
1762	587737.7	4154035	5.66E-07	1.24E-06	0.00E+00	1.81E-06	1.15E-06	1.26E-06	0.00E+00	2.41E-06	9.17E-08	2.82E-07	0.00E+00	3.74E-07	5.17E-08	1.77E-07	0.00E+00	2.29E-07
1763	587753.6	4154032	5.71E-07	1.25E-06	0.00E+00	1.82E-06	1.16E-06	1.27E-06	0.00E+00	2.43E-06	9.24E-08	2.85E-07	0.00E+00	3.77E-07	5.21E-08	1.78E-07	0.00E+00	2.30E-07
1764	587769.5	4154029	5.76E-07	1.26E-06	0.00E+00	1.84E-06	1.17E-06	1.28E-06	0.00E+00	2.45E-06	9.32E-08	2.87E-07	0.00E+00	3.80E-07	5.26E-08	1.80E-07	0.00E+00	2.32E-07
1765	587810.5	4154051	7.02E-07	1.54E-06	0.00E+00	2.24E-06	1.43E-06	1.56E-06	0.00E+00	2.98E-06	1.14E-07	3.50E-07	0.00E+00	4.63E-07	6.41E-08	2.19E-07	0.00E+00	2.83E-07
1766	587823.7	4154061	7.53E-07	1.65E-06	0.00E+00	2.40E-06	1.53E-06	1.67E-06	0.00E+00	3.20E-06	1.22E-07	3.76E-07	0.00E+00	4.98E-07	6.88E-08	2.35E-07	0.00E+00	3.04E-07
1767	587836.9	4154070	8.05E-07	1.76E-06	0.00E+00	2.57E-06	1.64E-06	1.78E-06	0.00E+00	3.42E-06	1.30E-07	4.01E-07	0.00E+00	5.31E-07	7.35E-08	2.51E-07	0.00E+00	3.25E-07
1768	587850.1	4154079	8.55E-07	1.87E-06	0.00E+00	2.73E-06	1.74E-06	1.90E-06	0.00E+00	3.63E-06	1.38E-07	4.26E-07	0.00E+00	5.65E-07	7.80E-08	2.67E-07	0.00E+00	3.45E-07
1769	587863.3	4154089	9.03E-07	1.98E-06	0.00E+00	2.88E-06	1.84E-06	2.00E-06	0.00E+00	3.84E-06	1.46E-07	4.50E-07	0.00E+00	5.97E-07	8.25E-08	2.82E-07	0.00E+00	3.65E-07
1770	587876.5	4154098	9.51E-07	2.08E-06	0.00E+00	3.03E-06	1.93E-06	2.11E-06	0.00E+00	4.04E-06	1.54E-07	4.74E-07	0.00E+00	6.28E-07	8.68E-08	2.97E-07	0.00E+00	3.84E-07
1771	587889.7	4154107	9.94E-07	2.18E-06	0.00E+00	3.17E-06	2.02E-06	2.21E-06	0.00E+00	4.23E-06	1.61E-07	4.96E-07	0.00E+00	6.57E-07	9.08E-08	3.10E-07	0.00E+00	4.01E-07
1772	587902.9	4154117	1.03E-06	2.27E-06	0.00E+00	3.30E-06	2.10E-06	2.30E-06	0.00E+00	4.40E-06	1.68E-07	5.16E-07	0.00E+00	6.83E-07	9.45E-08	3.23E-07	0.00E+00	4.17E-07
1773	587595.6	4154064	5.9E-07	1.29E-06	0.00E+00	1.88E-06	1.20E-06	1.31E-06	0.00E+00	2.51E-06	9.56E-08	2.94E-07	0.00E+00	3.90E-07	5.39E-08	1.84E-07	0.00E+00	2.38E-07
1774	587604.9	4154050	5.4E-07	1.18E-06	0.00E+00	1.72E-06	1.10E-06	1.20E-06	0.00E+00	2.29E-06	8.74E-08	2.69E-07	0.00E+00	3.56E-07	4.93E-08	1.68E-07	0.00E+00	2.18E-07
1775	587620.8	4154047	5.33E-07	1.17E-06	0.00E+00	1.70E-06	1.08E-06	1.18E-06	0.00E+00	2.27E-06	8.63E-08	2.66E-07	0.00E+00	3.52E-07	4.87E-08	1.66E-07	0.00E+00	2.15E-07
1776	587636.7	4154044	5.27E-07	1.16E-06	0.00E+00	1.68E-06	1.07E-06	1.17E-06	0.00E+00	2.24E-06	8.54E-08	2.63E-07	0.00E+00	3.48E-07	4.82E-08	1.65E-07	0.00E+00	2.13E-07
1777	587668.4	4154038	5.21E-07	1.14E-06	0.00E+00	1.66E-06	1.06E-06	1.15E-06	0.00E+00	2.21E-06	8.43E-08	2.60E-07	0.00E+00	3.44E-07	4.75E-08	1.63E-07	0.00E+00	2.10E-07
1778	587684.3	4154035	5.2E-07	1.14E-06	0.00E+00	1.66E-06	1.06E-06	1.15E-06	0.00E+00	2.21E-06	8.43E-08	2.59E-07	0.00E+00	3.44E-07	4.75E-08	1.62E-07	0.00E+00	2.10E-07
1779	587732	4154027	5.31E-07	1.16E-06	0.00E+00	1.70E-06	1.08E-06	1.18E-06	0.00E+00	2.26E-06	8.60E-08	2.65E-07	0.00E+00	3.51E-07	4.85E-08	1.66E-07	0.00E+00	2.14E-07
1780	587747.8	4154024	5.36E-07	1.17E-06	0.00E+00	1.71E-06	1.09E-06	1.19E-06	0.00E+00	2.28E-06	8.68E-08	2.67E-07	0.00E+00	3.54E-07	4.89E-08	1.67E-07	0.00E+00	2.16E-07
1781	587763.7	4154021	5.41E-07	1.19E-06	0.00E+00	1.73E-06	1.10E-06	1.20E-06	0.00E+00	2.30E-06	8.76E-08	2.70E-07	0.00E+00	3.57E-07	4.94E-08	1.69E-07	0.00E+00	2.18E-07
1782	587799.4	4154032	6.11E-07	1.34E-06	0.00E+00	1.95E-06	1.24E-06	1.36E-06	0.00E+00	2.60E-06	9.90E-08	3.05E-07	0.00E+00	4.04E-07	5.58E-08	1.91E-07	0.00E+00	2.47E-07
1783	587812.6	4154042	6.58E-07	1.44E-06	0.00E+00	2.10E-06	1.34E-06	1.46E-06	0.00E+00	2.80E-06	1.07E-07	3.28E-07	0.00E+00	4.35E-07	6.01E-08	2.06E-07	0.00E+00	2.66E-07
1784	587825.7	4154051	7.06E-07	1.55E-06	0.00E+00	2.25E-06	1.43E-06	1.57E-06	0.00E+00	3.00E-06	1.14E-07	3.52E-07	0.00E+00	4.66E-07	6.44E-08	2.20E-07	0.00E+00	2.85E-07
1785	587852.1	4154069	7.99E-07	1.75E-06	0.00E+00	2.55E-06	1.62E-06	1.77E-06	0.00E+00	3.40E-06	1.29E-07	3.98E-07	0.00E+00	5.28E-07	7.29E-08	2.49E-07	0.00E+00	3.22E-07
1786	587865.3	4154079	8.43E-07	1.85E-06	0.00E+00	2.69E-06	1.71E-06	1.87E-06	0.00E+00	3.59E-06	1.37E-07	4.20E-07	0.00E+00	5.57E-07	7.70E-08	2.63E-07	0.00E+00	3.40E-07
1787	587878.4	4154088	8.86E-07	1.94E-06	0.00E+00	2.83E-06	1.80E-06	1.97E-06	0.00E+00	3.77E-06	1.43E-07	4.42E-07	0.00E+00	5.85E-07	8.09E-08	2.77E-07	0.00E+00	3.57E-07
1788	587891.6	4154097	9.27E-07	2.03E-06	0.00E+00	2.96E-06	1.88E-06	2.06E-06	0.00E+00	3.94E-06	1.50E-07	4.62E-07	0.00E+00	6.12E-07	8.46E-08	2.89E-07	0.00E+00	3.74E-07
1789	587904.8	4154107	9.65E-07	2.12E-06	0.00E+00	3.08E-06	1.96E-06	2.14E-06	0.00E+00	4.10E-06	1.56E-07	4.81E-07	0.00E+00	6.37E-07	8.81E-08	3.01E-07	0.00E+00	3.89E-07
1790	587918	4154116	9.99E-07	2.19E-06	0.00E+00	3.19E-06	2.03E-06	2.22E-06	0.00E+00	4.25E-06	1.62E-07	4.98E-07	0.00E+00	6.60E-07	9.12E-08	3.12E-07	0.00E+00	4.03E-07
1791	587590.2	4154056	5.58E-07	1.22E-06	0.00E+00	1.78E-06	1.13E-06	1.24E-06	0.00E+00	2.37E-06	9.03E-08	2.78E-07	0.00E+00	3.68E-07	5.09E-08	1.74E-07	0.00E+00	2.25E-07
1792	587599.5	4154041	5.11E-07	1.12E-06	0.00E+00	1.63E-06	1.04E-06	1.13E-06	0.00E+00	2.17E-06	8.28E-08	2.55E-07	0.00E+00	3.38E-07	4.67E-08	1.60E-07	0.00E+00	2.06E-07
1793	587615.3	4154039	5.05E-07	1.11E-06	0.00E+00	1.61E-06	1.03E-06	1.12E-06	0.00E+00	2.15E-06	8.18E-08	2.52E-07	0.00E+00	3.33E-07	4.61E-08	1.58E-07	0.00E+00	2.04E-07
1794	587631.2	4154036	4.99E-07	1.09E-06	0.00E+00	1.59E-06	1.01E-06	1.11E-06	0.00E+00	2.12E-06	8.08E-08	2.49E-07	0.00E+00	3.30E-07	4.56E-08	1.56E-07	0.00E+00	2.01E-07
1795	587662.9	4154030	4.91E-07	1.08E-06	0.00E+00	1.57E-06	9.99E-07	1.09E-06	0.00E+00	2.09E-06	7.96E-08	2.45E-07	0.00E+00	3.25E-07	4.49E-08	1.53E-07	0.00E+00	1.98E-07
1796	587678.7	4154027	4.91E-07	1.08E-06	0.00E+00	1.57E-06	9.97E-07	1.09E-06	0.00E+00	2.09E-06	7.95E-08	2.45E-07	0.00E+00	3.24E-07	4.48E-08	1.53E-07	0.00E+00	1.98E-07
1797	587726.3	4154018	4.99E-07	1.09E-06	0.00E+00	1.59E-06	1.01E-06	1.11E-06	0.00E+00	2.12E-06	8.08E-08	2.49E-07	0.00E+00	3.30E-07	4.56E-08	1.56E-07	0.00E+00	2.01E-07
1798	587742.1	4154016	5.04E-07	1.1E-06	0.00E+00	1.61E-06	1.02E-06	1.12E-06	0.00E+00	2.14E-06	8.16E-08	2.51E-07	0.00E+00	3.33E-07	4.60E-08	1.57E-07	0.00E+00	2.03E-07
1799	587758	4154013	5.09E-07	1.12E-06	0.00E+00	1.62E-06	1.03E-06	1.13E-06	0.00E+00	2.16E-06	8.24E-08	2.54E-07	0.00E+00	3.36E-07	4.65E-08	1.59E-07	0.00E+00	2.05E-07
1800	587788.4	4154013	5.35E-07	1.17E-06	0.00E+00	1.71E-06	1.09E-06	1.19E-06	0.00E+00	2.27E-06	8.66E-08	2.66E-07	0.00E+00	3.53E-07	4.88E-08	1.67E-07	0.00E+00	2.16E-07
1801	587801.5	4154022	5.76E-07	1.26E-06	0.00E+00	1.84E-06	1.17E-06	1.28E-06	0.00E+00	2.45E-06	9.33E-08	2.87E-07	0.00E+00	3.80E-07	5.26E-08	1.80E-07	0.00E+00	2.32E-07
1802	587814.7	4154032	6.19E-07	1.36E-06	0.00E+00	1.98E-06	1.26E-06	1.37E-06	0.00E+00	2.63E-06	1.00E-07	3.09E-07	0.00E+00	4.09E-07	5.65E-08	1.93E-07	0.00E+00	2.50E-07
1803	587827.8	4154041	6.63E-07	1.45E-06	0.00E+00	2.11E-06	1.35E-06	1.47E-06	0.00E+00	2.82E-06	1.07E-07	3.30E-07	0.00E+00	4.38E-07	6.05E-08	2.07E-07	0.00E+00	2.67E-07
1804	587841	4154050	7.06E-07	1.55E-06	0.00E+00	2.25E-06	1.44E-06	1.57E-06	0.00E+00	3.00E-06	1.14E-07	3.52E-07	0.00E+00	4.66E-07	6.45E-08	2.20E-07	0.00E+00	2.85E-07
1805	587854.1	4154060	7.48E-07	1.64E-06	0.00E+00	2.39E-06	1.52E-06	1.66E-06	0.00E+00	3.18E-06	1.21E-07	3.73E-07	0.00E+00	4.94E-07	6.83E-08	2.34E-07	0.00E+00	3.02E-07
1806	587867.3	4154069	7.89E-07	1.73E-06	0.00E+00	2.52E-06	1.60E-06	1.75E-06	0.00E+00	3.36E-06	1.28E-07	3.94E-07	0.00E+00	5.21E-07	7.21E-08	2.46E-07	0.00E+00	3.19E-07
1807	587880.4	4154078	8.29E-07	1.82E-06	0.00E+00	2.64E-06	1.68E-06	1.84E-06	0.00E+00	3.52E-06	1.34E-07	4.13E-07	0.00E+00	5.47E-07	7.57E-08	2.59E-07	0.00E+00	3.34E-07
1808	587893.6	4154087	8.66E-07	1.9E-06	0.00E+00	2.76E-06	1.76E-06	1.92E-06	0.00E+00	3.68E-06	1.40E-07	4.32E-07	0.00E+00	5.72E-07	7.91E-08	2.70E-07	0.00E+00	3.49E-07
1809	587906.8	4154097	9.02E-07	1.98E-06	0.00E+00	2.88E-06	1.83E-06	2.00E-06	0.00E+00	3.83E-06	1.46E-07	4.50E-07	0.00E+00	5.96E-07	8.23E-08	2.82E-07	0.00E+00	3.64E-07
1810	587919.9	4154106	9.34E-07	2.05E-06	0.00E+00	2.98E-06	1.90E-06	2.07E-06	0.00E+00	3.97E-06	1.51E-07	4.66E-07	0.00E+00	6.17E-07	8.53E-08	2.92E-07	0.00E+00	3.77E-07
1811	587584.7	4154047	5.28E-07	1.16E-06	0.00E+00	1.68E-06	1.07E-06	1.17E-06	0.00E+00	2.24E-06	8.55E-08	2.63E-07	0.00E+00	3.49E-07	4.82E-08	1.65E-07	0.00E+00	2.13E-07
1812	587594	4154033	4.85E-07	1.06E-06	0.00E+00	1.55E-06	9.86E-07	1.08E-06	0.00E+00	2.06E-06	7.86E-08	2.42E-07	0.00E+00	3.21E-07	4.43E-08	1.52E-07	0.00E+00	1.96E-07
1813	587609.8	4154030	4.79E-07	1.05E-06	0.00E+00	1.53E-06	9.74E-07	1.06E-06	0.00E+00	2.04E-06	7.76E-08	2.39E-07	0.00E+00	3.16E-07	4.37E-08	1.50E-07	0.00E+00	1.93E-07
1814	587625.7	4154027	4.73E-07	1.04E-06	0.00E+00	1.51E-06	9.61E-07	1.05E-06	0.00E+00	2.01E-06	7.66E-08	2.36E-07	0.00E+00	3.12E-07	4.32E-08	1.48E-07	0.00E+00	1.91E-07
1815	587657.3	4154022	4.65E-07	1.02E-06	0.00E+00	1.48E-06	9.45E-07	1.03E-06	0.00E+00	1.98E-06	7.53E-08	2.32E-07	0.00E+00	3.07E-07	4.25E-08	1.45E-07	0.00E+00	1.88E-07
1816	587673.1	4154019	4.64E-07	1.02E-06	0.00E+00	1.48E-06	9.42E-07	1.03E-06	0.00E+00	1.97E-06	7.51E-08	2.31E-07	0.00E+00	3.06E-07	4.23E-08	1.45E-07	0.00E+00	1.87E-07
1817	587720.6	4154010	4.7E-07	1.03E-06	0.00E+00	1.50E-06	9.55E-07	1.04E-06	0.00E+00	2.00E-06	7.61E-08	2.34E-07	0.00E+00	3.10E-07	4.29E-08	1.47E-07	0.00E+00	1.90E-07
1818	587736.5	4154007	4.74E-07	1.04E-06	0.00E+00	1.51E-06	9.64E-07	1.05E-06	0.00E+00	2.02E-06	7.68E-08	2.37E-07	0.00E+00	3.13E-07	4.33E-08	1.48E-07	0.00E+00	1.91E-07
1819	587752.3	4154004	4.79E-07	1.05E-06	0.00E+00	1.53E-06	9.74E-07	1.06E-06	0.00E+00	2.04E-06	7.76E-08	2.39E-07	0.00E+00	3.17E-07	4.38E-08	1.50E-07	0.00E+00	1.93E-07
1820	587790.5	4154003	5.05E-07	1.11E-06	0.00E+00	1.61E-06	1.03E-06	1.12E-06	0.00E+00	2.15E-06	8.19E-08	2.52E-07	0.00E+00	3.34E-07	4.61E-08	1.58E-07	0.00E+00	2.04E-07
1821	587803.6	4154013	5.44E-07	1.19E-06	0.00E+00	1.74E-06	1.11E-06	1.21E-06	0.00E+00	2.31E-06	8.81E-08	2.71E-07	0.00E+00	3.59E-07	4.96E-08	1.70E-07	0.00E+00	2.19E-07
1822	587816.8	4154022	5.83E-07	1.28E-06	0.00E+00	1.86E-06	1.19E-06	1.29E-06	0.00E+00	2.48E-06	9.45E-08	2.91E-07	0.00E+00	3.85E-07	5.33E-08	1.82E-07	0.00E+00	2.35E-07
1823	587829.9	4154031	6.24E-07	1.37E-06	0.00E+00	1.99E-06	1.27E-06	1.38E-06	0.00E+00	2.65E-06	1.01E-07	3.11E-07	0.00E+00	4.12E-07	5.69E-08	1.95E-07	0.00E+00	2.52E-07
1824	587843	4154040	6.64E-07	1.45E-06	0.00E+00	2.12E-06	1.35E-06	1.47E-06	0.00E+00	2.82E-06	1.07E-07	3.31E-07	0.00E+00	4.38E-07	6.06E-08	2.07E-07	0.00E+00	2.68E-07
1825	587869.3	4154059	7.41E-07	1.62E-06	0.00E+00	2.36E-06	1.51E-06	1.64E-06	0.00E+00	3.15E-06	1.20E-07	3.69E-07	0.00E+00	4.89E-07	6.76E-08	2.31E-07	0.00E+00	2.99E-07
1826	587882.4	4154068	7.77E-07	1.7E-06	0.00E+00	2.48E-06	1.58E-06	1.72E-06	0.00E+00	3.30E-06	1.26E-07	3.87E-07	0.00E+00	5.13E-07	7.09E-08	2.43E-07	0.00E+00	3.14E-07
1827	587895.6	4154078	8.12E-07	1.78E-06	0.00E+00	2.59E-06	1.65E-06	1.80E-06	0.00E+00	3.45E-06	1.31E-07	4.05E-07	0.00E+00	5.36E-07	7.41E-08	2.53E-07	0.00E+00	3.27E-07
1828	587908.7	4154087	8.44E-07	1.85E-06	0.00E+00	2.69E-06	1.72E-06	1.87E-06	0.00E+00	3.59E-06	1.37E-07	4.21E-07	0.00E+00	5.58E-07	7.71E-08	2.64E-07	0.00E+00	3.41E-07
1829	587921.9	4154096	8.75E-07	1.92E-06	0.00E+00	2.79E-06	1.78E-06	1.94E-06	0.00E+00	3.72E-06	1.42E-07	4.36E-07	0.00E+00	5.78E-07	7.99E-08	2.73E-07	0.00E+00	3.53E-07
1830	587935	4154105	9.03E-07	1.98E-06	0.00E+00	2.88E-06	1.84E-06	2.00E-06	0.00E+00	3.84E-06	1.46E-07	4.50E-07	0.00E+00	5.97E-07	8.25E-08	2.82E-07	0.00E+00	3.64E-07
1831	587579.3	4154039	5.01E-07	1.1E-06	0.00E+00	1.60E-06	1.02E-06	1.11E-06	0.00E+00	2.13E-06	8.11E-08	2.50E-07	0.00E+00	3.31E-07	4.57E-08	1.56E-07	0.00E+00	2.02E-07
1832	587588.6	4154025	4.61E-07	1.01E-06	0.00E+00	1.47E-06	9.38E-07	1.02E-06	0.00E+00	1.96E-06	7.47E-08	2.30E-07	0.00E+00	3.05E-07	4.21E-08	1.44E-07	0.00E+00	1.86E-07
1833	587604.4	4154022	4.55E-07	9.98E-07	0.00E+00	1.45E-06	9.25E-07	1.01E-06	0.00E+00	1.94E-06	7.37E-08	2.27E-07	0.00E+00	3.01E-07	4.16E-08	1.42E-07	0.00E+00	1.84E-07
1834	587620.2	4154019	4.49E-07	9.85E-07	0.00E+00	1.43E-06	9.13E-07	9.97E-07	0.00E+00	1.91E-06	7.28E-08	2.24E-07	0.00E+00	2.97E-07	4.10E-08	1.40E-07	0.00E+00	1.81E-07
1835	587651.8	4154013	4.41E-07	9.66E-07	0.00E+00	1.41E-06	8.96E-07	9.78E-07	0.00E+00	1.87E-06	7.14E-08	2.20E-07	0.00E+00	2.91E-07	4.03E-08	1.38E-07	0.00E+00	1.78E-07
1836	587667.6	4154010	4.39E-07	9.62E-07	0.00E+00	1.40E-06	8.92E-07	9.74E-07	0.00E+00	1.87E-06	7.11E-08	2.19E-07	0.00E+00	2.90E-07	4.01E-08	1.37E-07	0.00E+00	1.77E-07
1837	587715	4154002	4.43E-07	9.72E-07	0.00E+00	1.41E-06	9.01E-07	9.83E-07	0.00E+00	1.88E-06	7.18E-08	2.21E-07	0.00E+00	2.93E-07	4.05E-08	1.38E-07	0.00E+00	1.79E-07
1838	587730.8	4153999	4.47E-07	9.8E-07	0.00E+00	1.43E-06	9.09E-07	9.92E-07	0.00E+00	1.90E-06	7.24E-08	2.23E-07	0.00E+00	2.95E-07	4.08E-08	1.40E-07	0.00E+00	1.80E-07
1839	587746.6	4153996	4.52E-07	9.9E-07	0.00E+00	1.44E-06	9.18E-07	1.00E-06	0.00E+00	1.92E-06	7.32E-08	2.25E-07	0.00E+00	2.98E-07	4.13E-08	1.41E-07	0.00E+00	1.82E-07
1840	587778.2	4153990	4.61E-07	1.01E-06	0.00E+00	1.47E-06	9.36E-07	1.02E-06	0.00E+00	1.96E-06	7.46E-08	2.30E-07	0.00E+00	3.04E-07	4.20E-08	1.44E-07	0.00E+00	1.86E-07
1841	587792.7	4153994	4.79E-07	1.05E-06	0.00E+00	1.53E-06	9.74E-07	1.06E-06	0.00E+00	2.04E-06	7.76E-08	2.39E-07	0.00E+00	3.16E-07	4.37E-08	1.50E-07	0.00E+00	1.93E-07
1842	587805.8	4154003	5.14E-07	1.13E-06	0.00E+00	1.64E-06	1.04E-06	1.14E-06	0.00E+00	2.19E-06	8.33E-08	2.56E-07	0.00E+00	3.40E-07	4.69E-08	1.61E-07	0.00E+00	2.07E-07
1843	587818.9	4154012	5.51E-07	1.21E-06	0.00E+00	1.76E-06	1.12E-06	1.22E-06	0.00E+00	2.34E-06	8.92E-08	2.75E-07	0.00E+00	3.64E-07	5.03E-08	1.72E-07	0.00E+00	2.22E-07
1844	587832	4154021	5.88E-07	1.29E-06	0.00E+00	1.88E-06	1.20E-06	1.30E-06	0.00E+00	2.50E-06	9.52E-08	2.93E-07	0.00E+00	3.88E-07	5.37E-08	1.84E-07	0.00E+00	2.37E-07
1845	587845.1	4154031	6.25E-07	1.37E-06	0.00E+00	2.00E-06	1.27E-06	1.39E-06	0.00E+00	2.66E-06	1.01E-07	3.12E-07	0.00E+00	4.13E-07	5.71E-08	1.95E-07	0.00E+00	2.52E-07
1846	587858.2	4154040	6.61E-07	1.45E-06	0.00E+00	2.11E-06	1.34E-06	1.47E-06	0.00E+00	2.81E-06	1.07E-07	3.30E-07	0.00E+00	4.37E-07	6.04E-08	2.06E-07	0.00E+00	2.67E-07
1847	587871.4	4154049	6.97E-07	1.53E-06	0.00E+00	2.22E-06	1.42E-06	1.55E-06	0.00E+00	2.96E-06	1.13E-07	3.47E-07	0.00E+00	4.60E-07	6.36E-08	2.17E-07	0.00E+00	2.81E-07
1848	587884.5	4154058	7.3E-07	1.6E-06	0.00E+00	2.33E-06	1.48E-06	1.62E-06	0.00E+00	3.10E-06	1.18E-07	3.64E-07	0.00E+00	4.82E-07	6.67E-08	2.28E-07	0.00E+00	2.95E-07
1849	587897.6	4154068	7.62E-07	1.67E-06	0.00E+00	2.43E-06	1.55E-06	1.69E-06	0.00E+00	3.24E-06	1.23E-07	3.80E-07	0.00E+00	5.04E-07	6.96E-08	2.38E-07	0.00E+00	3.08E-07
1850	587910.7	4154077	7.93E-07	1.74E-06	0.00E+00	2.53E-06	1.61E-06	1.76E-06	0.00E+00	3.37E-06	1.28E-07	3.95E-07	0.00E+00	5.24E-07	7.24E-08	2.47E-07	0.00E+00	3.20E-07
1851	587923.8	4154086	8.21E-07	1.8E-06	0.00E+00	2.62E-06	1.67E-06	1.82E-06	0.00E+00	3.49E-06	1.33E-07	4.09E-07	0.00E+00	5.42E-07	7.50E-08	2.56E-07	0.00E+00	3.31E-07
1852	587936.9	4154096	8.48E-07	1.86E-06	0.00E+00	2.71E-06	1.72E-06	1.88E-06	0.00E+00	3.60E-06	1.37E-07	4.23E-07	0.00E+00	5.60E-07	7.74E-08	2.65E-07	0.00E+00	3.42E-07
1853	587573.9	4154030	4.76E-07	1.04E-06	0.00E+00	1.52E-06	9.67E-07	1.06E-06	0.00E+00	2.02E-06	7.70E-08	2.37E-07	0.00E+00	3.14E-07	4.34E-08	1.48E-07	0.00E+00	1.92E-07
1854	587583.1	4154016	4.39E-07	9.63E-07	0.00E+00	1.40E-06	8.93E-07	9.74E-07	0.00E+00	1.87E-06	7.11E-08	2.19E-07	0.00E+00	2.90E-07	4.01E-08	1.37E-07	0.00E+00	1.77E-07
1855	587598.9	4154013	4.33E-07	9.5E-07	0.00E+00	1.38E-06	8.81E-07	9.61E-07	0.00E+00	1.84E-06	7.02E-08	2.16E-07	0.00E+00	2.86E-07	3.96E-08	1.35E-07	0.00E+00	1.75E-07
1856	587614.7	4154011	4.28E-07	9.37E-07	0.00E+00	1.36E-06	8.69E-07	9.49E-07	0.00E+00	1.82E-06	6.93E-08	2.13E-07	0.00E+00	2.82E-07	3.90E-08	1.33E-07	0.00E+00	1.73E-07
1857	587646.2	4154005	4.19E-07	9.18E-07	0.00E+00	1.34E-06	8.52E-07	9.30E-07	0.00E+00	1.78E-06	6.79E-08	2.09E-07	0.00E+00	2.77E-07	3.83E-08	1.31E-07	0.00E+00	1.69E-07
1858	587662	4154002	4.17E-07	9.13E-07	0.00E+00	1.33E-06	8.47E-07	9.24E-07	0.00E+00	1.77E-06	6.75E-08	2.08E-07	0.00E+00	2.75E-07	3.80E-08	1.30E-07	0.00E+00	1.68E-07
1859	587709.4	4153993	4.19E-07	9.19E-07	0.00E+00	1.34E-06	8.52E-07	9.30E-07	0.00E+00	1.78E-06	6.79E-08	2.09E-07	0.00E+00	2.77E-07	3.83E-08	1.31E-07	0.00E+00	1.69E-07
1860	587725.1	4153991	4.23E-07	9.26E-07	0.00E+00	1.35E-06	8.59E-07	9.37E-07	0.00E+00	1.80E-06	6.84E-08	2.11E-07	0.00E+00	2.79E-07	3.86E-08	1.32E-07	0.00E+00	1.70E-07
1861	587740.9	4153988	4.27E-07	9.35E-07	0.00E+00	1.36E-06	8.67E-07	9.47E-07	0.00E+00	1.81E-06	6.91E-08	2.13E-07	0.00E+00	2.82E-07	3.90E-08	1.33E-07	0.00E+00	1.72E-07
1862	587772.5	4153982	4.36E-07	9.55E-07	0.00E+00	1.39E-06	8.85E-07	9.66E-07	0.00E+00	1.85E-06	7.05E-08	2.17E-07	0.00E+00	2.88E-07	3.98E-08	1.36E-07	0.00E+00	1.76E-07
1863	587794.8	4153984	4.55E-07	9.97E-07	0.00E+00	1.45E-06	9.25E-07	1.01E-06	0.00E+00	1.93E-06	7.37E-08	2.27E-07	0.00E+00	3.01E-07	4.15E-08	1.42E-07	0.00E+00	1.84E-07
1864	587807.9	4153993	4.87E-07	1.07E-06	0.00E+00	1.55E-06	9.90E-07	1.08E-06	0.00E+00	2.07E-06	7.89E-08	2.43E-07	0.00E+00	3.22E-07	4.45E-08	1.52E-07	0.00E+00	1.97E-07
1865	587821	4154002	5.21E-07	1.14E-06	0.00E+00	1.66E-06	1.06E-06	1.16E-06	0.00E+00	2.21E-06	8.44E-08	2.60E-07	0.00E+00	3.44E-07	4.76E-08	1.63E-07	0.00E+00	2.10E-07
1866	587834.1	4154012	5.55E-07	1.22E-06	0.00E+00	1.77E-06	1.13E-06	1.23E-06	0.00E+00	2.36E-06	9.00E-08	2.77E-07	0.00E+00	3.67E-07	5.07E-08	1.73E-07	0.00E+00	2.24E-07
1867	587847.2	4154021	5.9E-07	1.29E-06	0.00E+00	1.88E-06	1.20E-06	1.31E-06	0.00E+00	2.51E-06	9.55E-08	2.94E-07	0.00E+00	3.90E-07	5.39E-08	1.84E-07	0.00E+00	2.38E-07

1868	587860.3	4154030	6.24E-07	1.37E-06	0.00E+00	1.99E-06	1.27E-06	1.38E-06	0.00E+00	2.65E-06	1.01E-07	3.11E-07	0.00E+00	4.12E-07	5.69E-08	1.95E-07	0.00E+00	2.52E-07
1869	587886.5	4154049	6.88E-07	1.51E-06	0.00E+00	2.20E-06	1.40E-06	1.53E-06	0.00E+00	2.92E-06	1.11E-07	3.43E-07	0.00E+00	4.54E-07	6.28E-08	2.15E-07	0.00E+00	2.77E-07
1870	587899.6	4154058	7.18E-07	1.57E-06	0.00E+00	2.29E-06	1.46E-06	1.59E-06	0.00E+00	3.05E-06	1.16E-07	3.58E-07	0.00E+00	4.74E-07	6.55E-08	2.24E-07	0.00E+00	2.90E-07
1871	587912.7	4154067	7.46E-07	1.63E-06	0.00E+00	2.38E-06	1.52E-06	1.65E-06	0.00E+00	3.17E-06	1.21E-07	3.72E-07	0.00E+00	4.93E-07	6.81E-08	2.33E-07	0.00E+00	3.01E-07
1872	587925.8	4154076	7.72E-07	1.69E-06	0.00E+00	2.47E-06	1.57E-06	1.71E-06	0.00E+00	3.28E-06	1.25E-07	3.85E-07	0.00E+00	5.10E-07	7.05E-08	2.41E-07	0.00E+00	3.12E-07
1873	587938.9	4154086	7.97E-07	1.75E-06	0.00E+00	2.54E-06	1.62E-06	1.77E-06	0.00E+00	3.39E-06	1.29E-07	3.97E-07	0.00E+00	5.27E-07	7.28E-08	2.49E-07	0.00E+00	3.22E-07
1874	587952	4154095	8.2E-07	1.8E-06	0.00E+00	2.62E-06	1.67E-06	1.82E-06	0.00E+00	3.49E-06	1.33E-07	4.09E-07	0.00E+00	5.42E-07	7.49E-08	2.56E-07	0.00E+00	3.31E-07
1875	587568.4	4154022	4.53E-07	9.92E-07	0.00E+00	1.44E-06	9.20E-07	1.00E-06	0.00E+00	1.92E-06	7.33E-08	2.26E-07	0.00E+00	2.99E-07	4.13E-08	1.41E-07	0.00E+00	1.83E-07
1876	587577.6	4154008	4.19E-07	9.18E-07	0.00E+00	1.34E-06	8.51E-07	9.29E-07	0.00E+00	1.78E-06	6.78E-08	2.09E-07	0.00E+00	2.77E-07	3.82E-08	1.31E-07	0.00E+00	1.69E-07
1877	587593.4	4154005	4.13E-07	9.05E-07	0.00E+00	1.32E-06	8.40E-07	9.17E-07	0.00E+00	1.76E-06	6.69E-08	2.06E-07	0.00E+00	2.73E-07	3.77E-08	1.29E-07	0.00E+00	1.67E-07
1878	587609.2	4154002	4.08E-07	8.93E-07	0.00E+00	1.30E-06	8.29E-07	9.04E-07	0.00E+00	1.73E-06	6.60E-08	2.03E-07	0.00E+00	2.69E-07	3.72E-08	1.27E-07	0.00E+00	1.64E-07
1879	587640.7	4153996	3.99E-07	8.74E-07	0.00E+00	1.27E-06	8.11E-07	8.85E-07	0.00E+00	1.70E-06	6.46E-08	1.99E-07	0.00E+00	2.63E-07	3.64E-08	1.25E-07	0.00E+00	1.61E-07
1880	587656.5	4153994	3.96E-07	8.69E-07	0.00E+00	1.26E-06	8.05E-07	8.79E-07	0.00E+00	1.68E-06	6.42E-08	1.98E-07	0.00E+00	2.62E-07	3.62E-08	1.24E-07	0.00E+00	1.60E-07
1881	587703.7	4153985	3.97E-07	8.7E-07	0.00E+00	1.27E-06	8.07E-07	8.81E-07	0.00E+00	1.69E-06	6.43E-08	1.98E-07	0.00E+00	2.62E-07	3.63E-08	1.24E-07	0.00E+00	1.60E-07
1882	587719.5	4153982	4E-07	8.76E-07	0.00E+00	1.28E-06	8.13E-07	8.87E-07	0.00E+00	1.70E-06	6.48E-08	1.99E-07	0.00E+00	2.64E-07	3.65E-08	1.25E-07	0.00E+00	1.61E-07
1883	587735.3	4153979	4.04E-07	8.85E-07	0.00E+00	1.29E-06	8.20E-07	8.95E-07	0.00E+00	1.72E-06	6.54E-08	2.01E-07	0.00E+00	2.67E-07	3.68E-08	1.26E-07	0.00E+00	1.63E-07
1884	587766.8	4153974	4.12E-07	9.03E-07	0.00E+00	1.32E-06	8.38E-07	9.14E-07	0.00E+00	1.75E-06	6.67E-08	2.05E-07	0.00E+00	2.72E-07	3.76E-08	1.29E-07	0.00E+00	1.66E-07
1885	587782.6	4153971	4.16E-07	9.12E-07	0.00E+00	1.33E-06	8.46E-07	9.23E-07	0.00E+00	1.77E-06	6.74E-08	2.07E-07	0.00E+00	2.75E-07	3.80E-08	1.30E-07	0.00E+00	1.68E-07
1886	587797	4153974	4.32E-07	9.48E-07	0.00E+00	1.38E-06	8.79E-07	9.59E-07	0.00E+00	1.84E-06	7.00E-08	2.16E-07	0.00E+00	2.86E-07	3.95E-08	1.35E-07	0.00E+00	1.74E-07
1887	587810.1	4153983	4.63E-07	1.01E-06	0.00E+00	1.48E-06	9.41E-07	1.03E-06	0.00E+00	1.97E-06	7.50E-08	2.31E-07	0.00E+00	3.06E-07	4.23E-08	1.44E-07	0.00E+00	1.87E-07
1888	587823.1	4153993	4.94E-07	1.08E-06	0.00E+00	1.58E-06	1.00E-06	1.10E-06	0.00E+00	2.10E-06	8.00E-08	2.46E-07	0.00E+00	3.26E-07	4.51E-08	1.54E-07	0.00E+00	1.99E-07
1889	587836.2	4154002	5.26E-07	1.15E-06	0.00E+00	1.68E-06	1.07E-06	1.17E-06	0.00E+00	2.23E-06	8.51E-08	2.62E-07	0.00E+00	3.47E-07	4.80E-08	1.64E-07	0.00E+00	2.12E-07
1890	587849.3	4154011	5.58E-07	1.22E-06	0.00E+00	1.78E-06	1.13E-06	1.24E-06	0.00E+00	2.37E-06	9.03E-08	2.78E-07	0.00E+00	3.68E-07	5.09E-08	1.74E-07	0.00E+00	2.25E-07
1891	587862.4	4154020	5.89E-07	1.29E-06	0.00E+00	1.88E-06	1.20E-06	1.31E-06	0.00E+00	2.50E-06	9.54E-08	2.94E-07	0.00E+00	3.89E-07	5.38E-08	1.84E-07	0.00E+00	2.38E-07
1892	587875.5	4154029	6.2E-07	1.36E-06	0.00E+00	1.98E-06	1.26E-06	1.37E-06	0.00E+00	2.63E-06	1.00E-07	3.09E-07	0.00E+00	4.09E-07	5.66E-08	1.93E-07	0.00E+00	2.50E-07
1893	587888.5	4154039	6.49E-07	1.42E-06	0.00E+00	2.07E-06	1.32E-06	1.44E-06	0.00E+00	2.76E-06	1.05E-07	3.24E-07	0.00E+00	4.29E-07	5.92E-08	2.03E-07	0.00E+00	2.62E-07
1894	587901.6	4154048	6.77E-07	1.48E-06	0.00E+00	2.16E-06	1.38E-06	1.50E-06	0.00E+00	2.88E-06	1.10E-07	3.37E-07	0.00E+00	4.47E-07	6.18E-08	2.11E-07	0.00E+00	2.73E-07
1895	587914.7	4154057	7.03E-07	1.54E-06	0.00E+00	2.24E-06	1.43E-06	1.56E-06	0.00E+00	2.99E-06	1.14E-07	3.51E-07	0.00E+00	4.64E-07	6.42E-08	2.19E-07	0.00E+00	2.84E-07
1896	587927.8	4154066	7.28E-07	1.6E-06	0.00E+00	2.32E-06	1.48E-06	1.61E-06	0.00E+00	3.09E-06	1.18E-07	3.63E-07	0.00E+00	4.81E-07	6.65E-08	2.27E-07	0.00E+00	2.94E-07
1897	587940.9	4154076	7.51E-07	1.65E-06	0.00E+00	2.40E-06	1.53E-06	1.67E-06	0.00E+00	3.19E-06	1.22E-07	3.75E-07	0.00E+00	4.96E-07	6.86E-08	2.35E-07	0.00E+00	3.03E-07
1898	587953.9	4154085	7.73E-07	1.69E-06	0.00E+00	2.47E-06	1.57E-06	1.72E-06	0.00E+00	3.29E-06	1.25E-07	3.85E-07	0.00E+00	5.11E-07	7.06E-08	2.41E-07	0.00E+00	3.12E-07
1899	587563	4154014	4.32E-07	9.46E-07	0.00E+00	1.38E-06	8.77E-07	9.57E-07	0.00E+00	1.83E-06	6.99E-08	2.15E-07	0.00E+00	2.85E-07	3.94E-08	1.35E-07	0.00E+00	1.74E-07
1900	587572.2	4153999	4E-07	8.77E-07	0.00E+00	1.28E-06	8.13E-07	8.88E-07	0.00E+00	1.70E-06	6.48E-08	1.99E-07	0.00E+00	2.64E-07	3.65E-08	1.25E-07	0.00E+00	1.61E-07
1901	587587.9	4153997	3.95E-07	8.65E-07	0.00E+00	1.26E-06	8.02E-07	8.75E-07	0.00E+00	1.68E-06	6.39E-08	1.97E-07	0.00E+00	2.61E-07	3.60E-08	1.23E-07	0.00E+00	1.59E-07
1902	587603.7	4153994	3.89E-07	8.53E-07	0.00E+00	1.24E-06	7.91E-07	8.63E-07	0.00E+00	1.65E-06	6.30E-08	1.94E-07	0.00E+00	2.57E-07	3.55E-08	1.21E-07	0.00E+00	1.57E-07
1903	587635.2	4153988	3.8E-07	8.34E-07	0.00E+00	1.21E-06	7.73E-07	8.44E-07	0.00E+00	1.62E-06	6.16E-08	1.90E-07	0.00E+00	2.51E-07	3.47E-08	1.19E-07	0.00E+00	1.53E-07
1904	587650.9	4153985	3.78E-07	8.27E-07	0.00E+00	1.21E-06	7.67E-07	8.38E-07	0.00E+00	1.61E-06	6.11E-08	1.88E-07	0.00E+00	2.49E-07	3.45E-08	1.18E-07	0.00E+00	1.52E-07
1905	587713.9	4153974	3.79E-07	8.31E-07	0.00E+00	1.21E-06	7.71E-07	8.41E-07	0.00E+00	1.61E-06	6.14E-08	1.89E-07	0.00E+00	2.50E-07	3.46E-08	1.18E-07	0.00E+00	1.53E-07
1906	587729.6	4153971	3.82E-07	8.38E-07	0.00E+00	1.22E-06	7.77E-07	8.48E-07	0.00E+00	1.63E-06	6.19E-08	1.91E-07	0.00E+00	2.53E-07	3.49E-08	1.19E-07	0.00E+00	1.54E-07
1907	587761.1	4153965	3.9E-07	8.55E-07	0.00E+00	1.25E-06	7.93E-07	8.66E-07	0.00E+00	1.66E-06	6.32E-08	1.95E-07	0.00E+00	2.58E-07	3.56E-08	1.22E-07	0.00E+00	1.57E-07
1908	587776.9	4153962	3.94E-07	8.64E-07	0.00E+00	1.26E-06	8.01E-07	8.75E-07	0.00E+00	1.68E-06	6.39E-08	1.97E-07	0.00E+00	2.60E-07	3.60E-08	1.23E-07	0.00E+00	1.59E-07
1909	587799.1	4153964	4.11E-07	9.02E-07	0.00E+00	1.31E-06	8.36E-07	9.13E-07	0.00E+00	1.75E-06	6.66E-08	2.05E-07	0.00E+00	2.72E-07	3.76E-08	1.28E-07	0.00E+00	1.66E-07
1910	587812.2	4153973	4.4E-07	9.64E-07	0.00E+00	1.40E-06	8.94E-07	9.76E-07	0.00E+00	1.87E-06	7.12E-08	2.19E-07	0.00E+00	2.91E-07	4.02E-08	1.37E-07	0.00E+00	1.77E-07
1911	587825.3	4153983	4.69E-07	1.03E-06	0.00E+00	1.50E-06	9.53E-07	1.04E-06	0.00E+00	1.99E-06	7.59E-08	2.34E-07	0.00E+00	3.10E-07	4.28E-08	1.46E-07	0.00E+00	1.89E-07
1912	587838.3	4153992	4.98E-07	1.09E-06	0.00E+00	1.59E-06	1.01E-06	1.11E-06	0.00E+00	2.12E-06	8.07E-08	2.48E-07	0.00E+00	3.29E-07	4.55E-08	1.56E-07	0.00E+00	2.01E-07
1913	587851.4	4154001	5.28E-07	1.16E-06	0.00E+00	1.69E-06	1.07E-06	1.17E-06	0.00E+00	2.24E-06	8.55E-08	2.63E-07	0.00E+00	3.49E-07	4.82E-08	1.65E-07	0.00E+00	2.13E-07
1914	587864.5	4154010	5.58E-07	1.22E-06	0.00E+00	1.78E-06	1.13E-06	1.24E-06	0.00E+00	2.37E-06	9.03E-08	2.78E-07	0.00E+00	3.68E-07	5.09E-08	1.74E-07	0.00E+00	2.25E-07
1915	587877.5	4154020	5.86E-07	1.28E-06	0.00E+00	1.87E-06	1.19E-06	1.30E-06	0.00E+00	2.49E-06	9.49E-08	2.92E-07	0.00E+00	3.87E-07	5.35E-08	1.83E-07	0.00E+00	2.36E-07
1916	587903.6	4154038	6.39E-07	1.4E-06	0.00E+00	2.04E-06	1.30E-06	1.42E-06	0.00E+00	2.72E-06	1.04E-07	3.19E-07	0.00E+00	4.22E-07	5.84E-08	2.00E-07	0.00E+00	2.58E-07
1917	587916.7	4154047	6.64E-07	1.46E-06	0.00E+00	2.12E-06	1.35E-06	1.47E-06	0.00E+00	2.82E-06	1.08E-07	3.31E-07	0.00E+00	4.39E-07	6.06E-08	2.07E-07	0.00E+00	2.68E-07
1918	587929.8	4154057	6.87E-07	1.51E-06	0.00E+00	2.19E-06	1.40E-06	1.52E-06	0.00E+00	2.92E-06	1.11E-07	3.43E-07	0.00E+00	4.54E-07	6.28E-08	2.15E-07	0.00E+00	2.77E-07
1919	587942.8	4154066	7.09E-07	1.55E-06	0.00E+00	2.26E-06	1.44E-06	1.57E-06	0.00E+00	3.02E-06	1.15E-07	3.54E-07	0.00E+00	4.69E-07	6.48E-08	2.21E-07	0.00E+00	2.86E-07
1920	587955.9	4154075	7.3E-07	1.6E-06	0.00E+00	2.33E-06	1.48E-06	1.62E-06	0.00E+00	3.10E-06	1.18E-07	3.64E-07	0.00E+00	4.82E-07	6.66E-08	2.28E-07	0.00E+00	2.95E-07
1921	587969	4154084	7.49E-07	1.64E-06	0.00E+00	2.39E-06	1.52E-06	1.66E-06	0.00E+00	3.18E-06	1.21E-07	3.73E-07	0.00E+00	4.94E-07	6.84E-08	2.34E-07	0.00E+00	3.02E-07
1922	587557.5	4154005	4.12E-07	9.03E-07	0.00E+00	1.31E-06	8.37E-07	9.14E-07	0.00E+00	1.75E-06	6.67E-08	2.05E-07	0.00E+00	2.72E-07	3.76E-08	1.29E-07	0.00E+00	1.66E-07
1923	587566.7	4153991	3.83E-07	8.38E-07	0.00E+00	1.22E-06	7.78E-07	8.49E-07	0.00E+00	1.63E-06	6.20E-08	1.91E-07	0.00E+00	2.53E-07	3.49E-08	1.19E-07	0.00E+00	1.54E-07
1924	587582.5	4153988	3.77E-07	8.27E-07	0.00E+00	1.20E-06	7.67E-07	8.37E-07	0.00E+00	1.60E-06	6.11E-08	1.88E-07	0.00E+00	2.49E-07	3.44E-08	1.18E-07	0.00E+00	1.52E-07
1925	587598.2	4153985	3.72E-07	8.15E-07	0.00E+00	1.19E-06	7.56E-07	8.25E-07	0.00E+00	1.58E-06	6.03E-08	1.85E-07	0.00E+00	2.46E-07	3.40E-08	1.16E-07	0.00E+00	1.50E-07
1926	587629.6	4153980	3.63E-07	7.96E-07	0.00E+00	1.16E-06	7.39E-07	8.06E-07	0.00E+00	1.54E-06	5.88E-08	1.81E-07	0.00E+00	2.40E-07	3.32E-08	1.13E-07	0.00E+00	1.47E-07
1927	587645.4	4153977	3.6E-07	7.9E-07	0.00E+00	1.15E-06	7.32E-07	7.99E-07	0.00E+00	1.53E-06	5.84E-08	1.80E-07	0.00E+00	2.38E-07	3.29E-08	1.12E-07	0.00E+00	1.45E-07
1928	587755.4	4153957	3.7E-07	8.11E-07	0.00E+00	1.18E-06	7.52E-07	8.21E-07	0.00E+00	1.57E-06	5.99E-08	1.85E-07	0.00E+00	2.44E-07	3.38E-08	1.16E-07	0.00E+00	1.49E-07
1929	587771.2	4153954	3.74E-07	8.2E-07	0.00E+00	1.19E-06	7.60E-07	8.30E-07	0.00E+00	1.59E-06	6.06E-08	1.86E-07	0.00E+00	2.47E-07	3.41E-08	1.17E-07	0.00E+00	1.51E-07
1930	587786.9	4153951	3.78E-07	8.28E-07	0.00E+00	1.21E-06	7.68E-07	8.38E-07	0.00E+00	1.61E-06	6.12E-08	1.88E-07	0.00E+00	2.49E-07	3.45E-08	1.18E-07	0.00E+00	1.52E-07
1931	587801.3	4153954	3.92E-07	8.59E-07	0.00E+00	1.25E-06	7.97E-07	8.70E-07	0.00E+00	1.67E-06	6.35E-08	1.95E-07	0.00E+00	2.59E-07	3.58E-08	1.22E-07	0.00E+00	1.58E-07
1932	587814.3	4153964	4.19E-07	9.17E-07	0.00E+00	1.34E-06	8.51E-07	9.28E-07	0.00E+00	1.78E-06	6.78E-08	2.09E-07	0.00E+00	2.76E-07	3.82E-08	1.31E-07	0.00E+00	1.69E-07
1933	587827.4	4153973	4.46E-07	9.77E-07	0.00E+00	1.42E-06	9.06E-07	9.89E-07	0.00E+00	1.89E-06	7.22E-08	2.22E-07	0.00E+00	2.94E-07	4.07E-08	1.39E-07	0.00E+00	1.80E-07
1934	587840.4	4153982	4.73E-07	1.04E-06	0.00E+00	1.51E-06	9.61E-07	1.05E-06	0.00E+00	2.01E-06	7.66E-08	2.36E-07	0.00E+00	3.12E-07	4.32E-08	1.48E-07	0.00E+00	1.91E-07
1935	587853.5	4153991	5.01E-07	1.1E-06	0.00E+00	1.60E-06	1.02E-06	1.11E-06	0.00E+00	2.13E-06	8.11E-08	2.50E-07	0.00E+00	3.31E-07	4.57E-08	1.56E-07	0.00E+00	2.02E-07
1936	587866.5	4154001	5.28E-07	1.16E-06	0.00E+00	1.69E-06	1.07E-06	1.17E-06	0.00E+00	2.25E-06	8.56E-08	2.63E-07	0.00E+00	3.49E-07	4.82E-08	1.65E-07	0.00E+00	2.13E-07
1937	587879.6	4154010	5.55E-07	1.22E-06	0.00E+00	1.77E-06	1.13E-06	1.23E-06	0.00E+00	2.36E-06	8.99E-08	2.77E-07	0.00E+00	3.67E-07	5.07E-08	1.73E-07	0.00E+00	2.24E-07
1938	587892.6	4154019	5.81E-07	1.27E-06	0.00E+00	1.85E-06	1.18E-06	1.29E-06	0.00E+00	2.47E-06	9.40E-08	2.90E-07	0.00E+00	3.84E-07	5.30E-08	1.81E-07	0.00E+00	2.34E-07
1939	587905.7	4154028	6.05E-07	1.33E-06	0.00E+00	1.93E-06	1.23E-06	1.34E-06	0.00E+00	2.57E-06	9.80E-08	3.02E-07	0.00E+00	4.00E-07	5.52E-08	1.89E-07	0.00E+00	2.44E-07
1940	587918.7	4154037	6.28E-07	1.38E-06	0.00E+00	2.01E-06	1.28E-06	1.39E-06	0.00E+00	2.67E-06	1.02E-07	3.13E-07	0.00E+00	4.15E-07	5.74E-08	1.96E-07	0.00E+00	2.53E-07
1941	587931.8	4154047	6.5E-07	1.42E-06	0.00E+00	2.08E-06	1.32E-06	1.44E-06	0.00E+00	2.76E-06	1.05E-07	3.24E-07	0.00E+00	4.29E-07	5.94E-08	2.03E-07	0.00E+00	2.62E-07
1942	587944.8	4154056	6.71E-07	1.47E-06	0.00E+00	2.14E-06	1.36E-06	1.49E-06	0.00E+00	2.85E-06	1.09E-07	3.34E-07	0.00E+00	4.43E-07	6.12E-08	2.09E-07	0.00E+00	2.71E-07
1943	587957.9	4154065	6.9E-07	1.51E-06	0.00E+00	2.20E-06	1.40E-06	1.53E-06	0.00E+00	2.93E-06	1.12E-07	3.44E-07	0.00E+00	4.56E-07	6.30E-08	2.16E-07	0.00E+00	2.79E-07
1944	587970.9	4154074	7.08E-07	1.55E-06	0.00E+00	2.26E-06	1.44E-06	1.57E-06	0.00E+00	3.01E-06	1.15E-07	3.53E-07	0.00E+00	4.68E-07	6.47E-08	2.21E-07	0.00E+00	2.86E-07
1945	587552.1	4153997	3.94E-07	8.63E-07	0.00E+00	1.26E-06	8.00E-07	8.73E-07	0.00E+00	1.67E-06	6.37E-08	1.96E-07	0.00E+00	2.60E-07	3.59E-08	1.23E-07	0.00E+00	1.59E-07

			UnMitigated			T3			T3L3			T4		
			8.60E-03	2.04E-02	0.00E+00	1.75E-02	2.07E-02	0.00E+00	1.39E-03	4.64E-03	0.00E+00	7.85E-04	2.91E-03	0.00E+00
			Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3
1	587690.9	4154241	7.73E-03	1.83E-02	0.00E+00	1.57E-02	1.86E-02	0.00E+00	1.25E-03	4.17E-03	0.00E+00	7.06E-04	2.61E-03	0.00E+00
2	587682.7	4154246	8.12E-03	1.93E-02	0.00E+00	1.65E-02	1.95E-02	0.00E+00	1.31E-03	4.38E-03	0.00E+00	7.41E-04	2.74E-03	0.00E+00
3	587674.5	4154251	8.38E-03	1.99E-02	0.00E+00	1.70E-02	2.01E-02	0.00E+00	1.36E-03	4.53E-03	0.00E+00	7.66E-04	2.83E-03	0.00E+00
4	587666.3	4154257	8.54E-03	2.03E-02	0.00E+00	1.74E-02	2.05E-02	0.00E+00	1.38E-03	4.61E-03	0.00E+00	7.80E-04	2.89E-03	0.00E+00
5	587658.1	4154262	8.60E-03	2.04E-02	0.00E+00	1.75E-02	2.07E-02	0.00E+00	1.39E-03	4.64E-03	0.00E+00	7.85E-04	2.91E-03	0.00E+00
6	587649.9	4154267	8.57E-03	2.03E-02	0.00E+00	1.74E-02	2.06E-02	0.00E+00	1.39E-03	4.63E-03	0.00E+00	7.82E-04	2.90E-03	0.00E+00
7	587641.7	4154272	8.44E-03	2.00E-02	0.00E+00	1.72E-02	2.03E-02	0.00E+00	1.37E-03	4.56E-03	0.00E+00	7.71E-04	2.85E-03	0.00E+00
8	587633.5	4154278	8.22E-03	1.95E-02	0.00E+00	1.67E-02	1.97E-02	0.00E+00	1.33E-03	4.44E-03	0.00E+00	7.51E-04	2.78E-03	0.00E+00
9	587625.3	4154283	7.91E-03	1.88E-02	0.00E+00	1.61E-02	1.90E-02	0.00E+00	1.28E-03	4.27E-03	0.00E+00	7.23E-04	2.68E-03	0.00E+00
10	587685.5	4154232	6.16E-03	1.46E-02	0.00E+00	1.25E-02	1.48E-02	0.00E+00	9.97E-04	3.32E-03	0.00E+00	5.62E-04	2.08E-03	0.00E+00
11	587677.3	4154237	6.46E-03	1.53E-02	0.00E+00	1.31E-02	1.55E-02	0.00E+00	1.05E-03	3.49E-03	0.00E+00	5.90E-04	2.18E-03	0.00E+00
12	587669.1	4154243	6.68E-03	1.59E-02	0.00E+00	1.36E-02	1.61E-02	0.00E+00	1.08E-03	3.61E-03	0.00E+00	6.10E-04	2.26E-03	0.00E+00
13	587660.9	4154248	6.83E-03	1.62E-02	0.00E+00	1.39E-02	1.64E-02	0.00E+00	1.11E-03	3.69E-03	0.00E+00	6.23E-04	2.31E-03	0.00E+00
14	587652.7	4154253	6.89E-03	1.64E-02	0.00E+00	1.40E-02	1.66E-02	0.00E+00	1.12E-03	3.72E-03	0.00E+00	6.29E-04	2.33E-03	0.00E+00
15	587644.5	4154259	6.89E-03	1.63E-02	0.00E+00	1.40E-02	1.65E-02	0.00E+00	1.12E-03	3.72E-03	0.00E+00	6.29E-04	2.33E-03	0.00E+00
16	587636.2	4154264	6.82E-03	1.62E-02	0.00E+00	1.39E-02	1.64E-02	0.00E+00	1.10E-03	3.68E-03	0.00E+00	6.23E-04	2.31E-03	0.00E+00
17	587628	4154269	6.67E-03	1.58E-02	0.00E+00	1.36E-02	1.60E-02	0.00E+00	1.08E-03	3.60E-03	0.00E+00	6.09E-04	2.26E-03	0.00E+00
18	587619.8	4154275	6.46E-03	1.53E-02	0.00E+00	1.31E-02	1.55E-02	0.00E+00	1.05E-03	3.49E-03	0.00E+00	5.90E-04	2.18E-03	0.00E+00
19	587680.1	4154224	5.05E-03	1.20E-02	0.00E+00	1.03E-02	1.21E-02	0.00E+00	8.17E-04	2.72E-03	0.00E+00	4.61E-04	1.71E-03	0.00E+00
20	587671.9	4154229	5.29E-03	1.25E-02	0.00E+00	1.07E-02	1.27E-02	0.00E+00	8.56E-04	2.85E-03	0.00E+00	4.83E-04	1.79E-03	0.00E+00
21	587663.7	4154234	5.47E-03	1.30E-02	0.00E+00	1.11E-02	1.32E-02	0.00E+00	8.87E-04	2.96E-03	0.00E+00	5.00E-04	1.85E-03	0.00E+00
22	587655.4	4154240	5.60E-03	1.33E-02	0.00E+00	1.14E-02	1.35E-02	0.00E+00	9.08E-04	3.03E-03	0.00E+00	5.12E-04	1.89E-03	0.00E+00
23	587647.2	4154245	5.67E-03	1.35E-02	0.00E+00	1.15E-02	1.36E-02	0.00E+00	9.19E-04	3.06E-03	0.00E+00	5.18E-04	1.92E-03	0.00E+00
24	587639	4154250	5.69E-03	1.35E-02	0.00E+00	1.16E-02	1.37E-02	0.00E+00	9.22E-04	3.07E-03	0.00E+00	5.20E-04	1.92E-03	0.00E+00
25	587630.8	4154256	5.65E-03	1.34E-02	0.00E+00	1.15E-02	1.36E-02	0.00E+00	9.15E-04	3.05E-03	0.00E+00	5.16E-04	1.91E-03	0.00E+00
26	587622.6	4154261	5.55E-03	1.32E-02	0.00E+00	1.13E-02	1.33E-02	0.00E+00	8.99E-04	3.00E-03	0.00E+00	5.07E-04	1.88E-03	0.00E+00
27	587614.4	4154266	5.40E-03	1.28E-02	0.00E+00	1.10E-02	1.30E-02	0.00E+00	8.75E-04	2.92E-03	0.00E+00	4.93E-04	1.83E-03	0.00E+00
28	587674.7	4154215	4.22E-03	1.00E-02	0.00E+00	8.59E-03	1.01E-02	0.00E+00	6.84E-04	2.28E-03	0.00E+00	3.86E-04	1.43E-03	0.00E+00
29	587666.4	4154221	4.42E-03	1.05E-02	0.00E+00	8.99E-03	1.06E-02	0.00E+00	7.16E-04	2.39E-03	0.00E+00	4.04E-04	1.49E-03	0.00E+00
30	587658.2	4154226	4.58E-03	1.09E-02	0.00E+00	9.31E-03	1.10E-02	0.00E+00	7.42E-04	2.47E-03	0.00E+00	4.18E-04	1.55E-03	0.00E+00
31	587655.6	4154204	3.25E-03	7.70E-03	0.00E+00	6.60E-03	7.80E-03	0.00E+00	5.26E-04	1.75E-03	0.00E+00	2.96E-04	1.10E-03	0.00E+00
32	587647.4	4154209	3.36E-03	7.98E-03	0.00E+00	6.83E-03	8.08E-03	0.00E+00	5.45E-04	1.82E-03	0.00E+00	3.07E-04	1.14E-03	0.00E+00
33	587639.2	4154215	3.46E-03	8.20E-03	0.00E+00	7.03E-03	8.30E-03	0.00E+00	5.60E-04	1.87E-03	0.00E+00	3.16E-04	1.17E-03	0.00E+00
34	587630.9	4154220	3.52E-03	8.36E-03	0.00E+00	7.16E-03	8.47E-03	0.00E+00	5.71E-04	1.90E-03	0.00E+00	3.22E-04	1.19E-03	0.00E+00
35	587622.7	4154225	3.56E-03	8.45E-03	0.00E+00	7.24E-03	8.55E-03	0.00E+00	5.77E-04	1.92E-03	0.00E+00	3.25E-04	1.20E-03	0.00E+00
36	587614.5	4154230	3.57E-03	8.47E-03	0.00E+00	7.25E-03	8.57E-03	0.00E+00	5.78E-04	1.93E-03	0.00E+00	3.26E-04	1.21E-03	0.00E+00
37	587606.3	4154236	3.55E-03	8.42E-03	0.00E+00	7.22E-03	8.53E-03	0.00E+00	5.75E-04	1.92E-03	0.00E+00	3.24E-04	1.20E-03	0.00E+00
38	587598.1	4154241	3.51E-03	8.33E-03	0.00E+00	7.13E-03	8.43E-03	0.00E+00	5.68E-04	1.89E-03	0.00E+00	3.20E-04	1.19E-03	0.00E+00
39	587641.9	4154201	2.94E-03	6.97E-03	0.00E+00	5.97E-03	7.05E-03	0.00E+00	4.76E-04	1.59E-03	0.00E+00	2.68E-04	9.93E-04	0.00E+00
40	587633.7	4154206	3.02E-03	7.17E-03	0.00E+00	6.14E-03	7.26E-03	0.00E+00	4.89E-04	1.63E-03	0.00E+00	2.76E-04	1.02E-03	0.00E+00
41	587625.5	4154211	3.08E-03	7.32E-03	0.00E+00	6.27E-03	7.41E-03	0.00E+00	5.00E-04	1.67E-03	0.00E+00	2.82E-04	1.04E-03	0.00E+00
42	587617.3	4154217	3.12E-03	7.41E-03	0.00E+00	6.35E-03	7.50E-03	0.00E+00	5.06E-04	1.69E-03	0.00E+00	2.85E-04	1.06E-03	0.00E+00
43	587609.1	4154222	3.14E-03	7.45E-03	0.00E+00	6.38E-03	7.54E-03	0.00E+00	5.09E-04	1.70E-03	0.00E+00	2.87E-04	1.06E-03	0.00E+00
44	587600.9	4154227	3.14E-03	7.44E-03	0.00E+00	6.38E-03	7.53E-03	0.00E+00	5.08E-04	1.69E-03	0.00E+00	2.86E-04	1.06E-03	0.00E+00
45	587592.7	4154233	3.12E-03	7.39E-03	0.00E+00	6.33E-03	7.48E-03	0.00E+00	5.05E-04	1.68E-03	0.00E+00	2.84E-04	1.05E-03	0.00E+00
46	587628.3	4154198	2.67E-03	6.33E-03	0.00E+00	5.42E-03	6.41E-03	0.00E+00	4.32E-04	1.44E-03	0.00E+00	2.44E-04	9.02E-04	0.00E+00
47	587620.1	4154203	2.73E-03	6.47E-03	0.00E+00	5.54E-03	6.55E-03	0.00E+00	4.42E-04	1.47E-03	0.00E+00	2.49E-04	9.22E-04	0.00E+00
48	587611.9	4154208	2.77E-03	6.57E-03	0.00E+00	5.63E-03	6.65E-03	0.00E+00	4.48E-04	1.49E-03	0.00E+00	2.53E-04	9.36E-04	0.00E+00
49	587603.6	4154214	2.79E-03	6.62E-03	0.00E+00	5.67E-03	6.70E-03	0.00E+00	4.52E-04	1.51E-03	0.00E+00	2.55E-04	9.43E-04	0.00E+00
50	587595.4	4154219	2.80E-03	6.64E-03	0.00E+00	5.69E-03	6.72E-03	0.00E+00	4.53E-04	1.51E-03	0.00E+00	2.55E-04	9.46E-04	0.00E+00
51	587587.2	4154224	2.79E-03	6.62E-03	0.00E+00	5.67E-03	6.70E-03	0.00E+00	4.52E-04	1.51E-03	0.00E+00	2.55E-04	9.42E-04	0.00E+00
52	587647.5	4154173	2.14E-03	5.08E-03	0.00E+00	4.35E-03	5.15E-03	0.00E+00	3.47E-04	1.16E-03	0.00E+00	1.96E-04	7.24E-04	0.00E+00
53	587606.4	4154200	2.47E-03	5.87E-03	0.00E+00	5.03E-03	5.95E-03	0.00E+00	4.01E-04	1.34E-03	0.00E+00	2.26E-04	8.37E-04	0.00E+00
54	587598.2	4154205	2.50E-03	5.94E-03	0.00E+00	5.08E-03	6.01E-03	0.00E+00	4.05E-04	1.35E-03	0.00E+00	2.28E-04	8.45E-04	0.00E+00
55	587590	4154211	2.51E-03	5.97E-03	0.00E+00	5.11E-03	6.04E-03	0.00E+00	4.07E-04	1.36E-03	0.00E+00	2.30E-04	8.50E-04	0.00E+00
56	587581.8	4154216	2.51E-03	5.96E-03	0.00E+00	5.11E-03	6.03E-03	0.00E+00	4.07E-04	1.36E-03	0.00E+00	2.29E-04	8.49E-04	0.00E+00
57	587642.1	4154165	1.93E-03	4.57E-03	0.00E+00	3.91E-03	4.62E-03	0.00E+00	3.12E-04	1.04E-03	0.00E+00	1.76E-04	6.51E-04	0.00E+00
58	587633.8	4154170	2.00E-03	4.75E-03	0.00E+00	4.07E-03	4.81E-03	0.00E+00	3.24E-04	1.08E-03	0.00E+00	1.83E-04	6.76E-04	0.00E+00
59	587592.8	4154197	2.26E-03	5.36E-03	0.00E+00	4.59E-03	5.43E-03	0.00E+00	3.66E-04	1.22E-03	0.00E+00	2.06E-04	7.64E-04	0.00E+00
60	587584.6	4154202	2.27E-03	5.40E-03	0.00E+00	4.62E-03	5.46E-03	0.00E+00	3.68E-04	1.23E-03	0.00E+00	2.08E-04	7.69E-04	0.00E+00
61	587576.4	4154208	2.28E-03	5.40E-03	0.00E+00	4.63E-03	5.47E-03	0.00E+00	3.69E-04	1.23E-03	0.00E+00	2.08E-04	7.70E-04	0.00E+00
62	587636.6	4154157	1.74E-03	4.13E-03	0.00E+00	3.54E-03	4.18E-03	0.00E+00	2.82E-04	9.40E-04	0.00E+00	1.59E-04	5.89E-04	0.00E+00
63	587628.4	4154162	1.81E-03	4.29E-03	0.00E+00	3.68E-03	4.35E-03	0.00E+00	2.93E-04	9.77E-04	0.00E+00	1.65E-04	6.12E-04	0.00E+00
64	587620.2	4154167	1.87E-03	4.45E-03	0.00E+00	3.81E-03	4.50E-03	0.00E+00	3.03E-04	1.01E-03	0.00E+00	1.71E-04	6.33E-04	0.00E+00
65	587579.1	4154194	2.07E-03	4.91E-03	0.00E+00	4.20E-03	4.97E-03	0.00E+00	3.35E-04	1.12E-03	0.00E+00	1.89E-04	6.99E-04	0.00E+00
66	587570.9	4154199	2.07E-03	4.92E-03	0.00E+00	4.22E-03	4.98E-03	0.00E+00	3.36E-04	1.12E-03	0.00E+00	1.89E-04	7.01E-04	0.00E+00
67	587631.2	4154148	1.59E-03	3.76E-03	0.00E+00	3.22E-03	3.81E-03	0.00E+00	2.57E-04	8.56E-04	0.00E+00	1.45E-04	5.36E-04	0.00E+00
68	587623	4154154	1.65E-03	3.91E-03	0.00E+00	3.35E-03	3.95E-03	0.00E+00	2.67E-04	8.89E-04	0.00E+00	1.50E-04	5.56E-04	0.00E+00
69	587614.8	4154159	1.70E-03	4.04E-03	0.00E+00	3.46E-03	4.09E-03	0.00E+00	2.76E-04	9.20E-04	0.00E+00	1.56E-04	5.76E-04	0.00E+00
70	587606.6	4154164	1.76E-03	4.17E-03	0.00E+00	3.57E-03	4.22E-03	0.00E+00	2.85E-04	9.49E-04	0.00E+00	1.60E-04	5.94E-04	0.00E+00
71	587598.3	4154169	1.80E-03	4.28E-03	0.00E+00	3.67E-03	4.33E-03	0.00E+00	2.92E-04	9.74E-04	0.00E+00	1.65E-04	6.10E-04	0.00E+00
72	587565.5	4154191	1.90E-03	4.50E-03	0.00E+00	3.86E-03	4.56E-03	0.00E+00	3.07E-04	1.02E-03	0.00E+00	1.73E-04	6.42E-04	0.00E+00
73	587625.8	4154140	1.45E-03	3.45E-03	0.00E+00	2.95E-03	3.49E-03	0.00E+00	2.35E-04	7.84E-04	0.00E+00	1.33E-04	4.91E-04	0.00E+00
74	587617.6	4154145	1.51E-03	3.57E-03	0.00E+00	3.06E-03	3.62E-03	0.00E+00	2.44E-04	8.13E-04	0.00E+00	1.38E-04	5.09E-04	0.00E+00
75	587609.3	4154150	1.56E-03	3.70E-03	0.00E+00	3.17E-03	3.74E-03	0.00E+00	2.52E-04	8.41E-04	0.00E+00	1.42E-04	5.27E-04	0.00E+00
76	587601.1	4154156	1.61E-03	3.81E-03	0.00E+00	3.27E-03	3.86E-03	0.00E+00	2.60E-04	8.67E-04	0.00E+00	1.47E-04	5.43E-04	0.00E+00
77	587592.9	4154161	1.65E-03	3.91E-03	0.00E+00	3.35E-03	3.96E-03	0.00E+00	2.67E-04	8.90E-04	0.00E+00	1.51E-04	5.57E-04	0.00E+00
78	587584.7	4154166	1.68E-03	4.00E-03	0.00E+00	3.42E-03	4.05E-03	0.00E+00	2.73E-04	9.10E-04	0.00E+00	1.54E-04	5.70E-04	0.00E+00
79	587612.1	4154137	1.38E-03	3.29E-03	0.00E+00	2.81E-03	3.33E-03	0.00E+00	2.24E-04	7.47E-04	0.00E+00	1.26E-04	4.68E-04	0.00E+00
80	587603.9	4154142	1.43E-03	3.40E-03	0.00E+00	2.91E-03	3.44E-03	0.00E+00	2.32E-04	7.73E-04	0.00E+00	1.31E-04	4.84E-04	0.00E+00
81	587595.7	4154147	1.48E-03	3.50E-03	0.00E+00	3.00E-03	3.54E-03	0.00E+00	2.39E-04	7.97E-04	0.00E+00	1.35E-04	4.99E-04	0.00E+00
82	587587.5	4154153	1.51E-03	3.59E-03	0.00E+00	3.08E-03	3.64E-03	0.00E+00	2.45E-04	8.18E-04	0.00E+00	1.38E-04	5.12E-04	0.00E+00
83	587579.3	4154158	1.55E-03	3.67E-03	0.00E+00	3.15E-03	3.72E-03	0.00E+00	2.51E-04	8.36E-04	0.00E+00	1.41E-04	5.23E-04	0.00E+00
84	587571.1	4154163	1.58E-03	3.74E-03	0.00E+00	3.20E-03	3.78E-03	0.00E+00	2.55E-04	8.50E-04	0.00E+00	1.44E-04	5.32E-04	0.00E+00
85	587606.7	4154128	1.28E-03	3.03E-03	0.00E+00	2.60E-03	3.07E-03	0.00E+00	2.07E-04	6.90E-04	0.00E+00	1.17E-04	4.32E-04	0.00E+00
86	587598.5	4154134	1.32E-03	3.13E-03	0.00E+00	2.68E-03	3.17E-03	0.00E+00	2.14E-04	7.13E-04	0.00E+00	1.21E-04	4.47E-04	0.00E+00
87	587590.3	4154139	1.36E-03	3.23E-03	0.00E+00	2.77E-03	3.27E-03	0.00E+00	2.20E-04	7.34E-04	0.00E+00	1.24E-04	4.60E-04	0.00E+00
88	587582	4154144	1.40E-03	3.31E-03	0.00E+00	2.84E-03	3.35E-03	0.00E+00	2.26E-04	7.54E-04	0.00E+00	1.28E-04	4.72E-04	0.00E+00

89	587573.8	4154150	1.43E-03	3.39E-03	0.00E+00	2.90E-03	3.43E-03	0.00E+00	2.31E-04	7.71E-04	0.00E+00	1.30E-04	4.83E-04	0.00E+00
90	587565.6	4154155	1.45E-03	3.45E-03	0.00E+00	2.96E-03	3.49E-03	0.00E+00	2.36E-04	7.85E-04	0.00E+00	1.33E-04	4.92E-04	0.00E+00
91	587557.4	4154160	1.48E-03	3.50E-03	0.00E+00	3.00E-03	3.54E-03	0.00E+00	2.39E-04	7.97E-04	0.00E+00	1.35E-04	4.99E-04	0.00E+00
92	587593	4154125	1.22E-03	2.90E-03	0.00E+00	2.49E-03	2.94E-03	0.00E+00	1.98E-04	6.60E-04	0.00E+00	1.12E-04	4.13E-04	0.00E+00
93	587584.8	4154131	1.26E-03	2.99E-03	0.00E+00	2.56E-03	3.03E-03	0.00E+00	2.04E-04	6.80E-04	0.00E+00	1.15E-04	4.26E-04	0.00E+00
94	587576.6	4154136	1.29E-03	3.07E-03	0.00E+00	2.63E-03	3.11E-03	0.00E+00	2.09E-04	6.98E-04	0.00E+00	1.18E-04	4.37E-04	0.00E+00
95	587568.4	4154141	1.32E-03	3.14E-03	0.00E+00	2.69E-03	3.18E-03	0.00E+00	2.14E-04	7.14E-04	0.00E+00	1.21E-04	4.47E-04	0.00E+00
96	587560.2	4154147	1.35E-03	3.20E-03	0.00E+00	2.74E-03	3.24E-03	0.00E+00	2.18E-04	7.28E-04	0.00E+00	1.23E-04	4.56E-04	0.00E+00
97	587552	4154152	1.37E-03	3.25E-03	0.00E+00	2.78E-03	3.29E-03	0.00E+00	2.22E-04	7.39E-04	0.00E+00	1.25E-04	4.63E-04	0.00E+00
98	587543.8	4154157	1.38E-03	3.28E-03	0.00E+00	2.81E-03	3.32E-03	0.00E+00	2.24E-04	7.46E-04	0.00E+00	1.26E-04	4.67E-04	0.00E+00
99	587604	4154106	1.07E-03	2.53E-03	0.00E+00	2.17E-03	2.56E-03	0.00E+00	1.73E-04	5.75E-04	0.00E+00	9.73E-05	3.60E-04	0.00E+00
100	587587.6	4154117	1.14E-03	2.70E-03	0.00E+00	2.31E-03	2.73E-03	0.00E+00	1.84E-04	6.14E-04	0.00E+00	1.04E-04	3.84E-04	0.00E+00
101	587579.4	4154122	1.17E-03	2.78E-03	0.00E+00	2.38E-03	2.81E-03	0.00E+00	1.89E-04	6.32E-04	0.00E+00	1.07E-04	3.95E-04	0.00E+00
102	587571.2	4154127	1.20E-03	2.85E-03	0.00E+00	2.44E-03	2.88E-03	0.00E+00	1.94E-04	6.48E-04	0.00E+00	1.10E-04	4.06E-04	0.00E+00
103	587563	4154133	1.23E-03	2.92E-03	0.00E+00	2.50E-03	2.95E-03	0.00E+00	1.99E-04	6.64E-04	0.00E+00	1.12E-04	4.16E-04	0.00E+00
104	587554.8	4154138	1.25E-03	2.97E-03	0.00E+00	2.55E-03	3.01E-03	0.00E+00	2.03E-04	6.77E-04	0.00E+00	1.14E-04	4.24E-04	0.00E+00
105	587546.5	4154143	1.27E-03	3.02E-03	0.00E+00	2.59E-03	3.06E-03	0.00E+00	2.06E-04	6.87E-04	0.00E+00	1.16E-04	4.30E-04	0.00E+00
106	587538.3	4154149	1.29E-03	3.05E-03	0.00E+00	2.62E-03	3.09E-03	0.00E+00	2.08E-04	6.95E-04	0.00E+00	1.18E-04	4.35E-04	0.00E+00
107	587582.2	4154108	1.06E-03	2.51E-03	0.00E+00	2.15E-03	2.55E-03	0.00E+00	1.72E-04	5.72E-04	0.00E+00	9.68E-05	3.58E-04	0.00E+00
108	587574	4154114	1.09E-03	2.59E-03	0.00E+00	2.22E-03	2.62E-03	0.00E+00	1.77E-04	5.88E-04	0.00E+00	9.95E-05	3.68E-04	0.00E+00
109	587565.8	4154119	1.12E-03	2.66E-03	0.00E+00	2.28E-03	2.69E-03	0.00E+00	1.81E-04	6.04E-04	0.00E+00	1.02E-04	3.78E-04	0.00E+00
110	587557.5	4154124	1.15E-03	2.72E-03	0.00E+00	2.33E-03	2.75E-03	0.00E+00	1.86E-04	6.19E-04	0.00E+00	1.05E-04	3.87E-04	0.00E+00
111	587549.3	4154130	1.17E-03	2.77E-03	0.00E+00	2.38E-03	2.81E-03	0.00E+00	1.89E-04	6.31E-04	0.00E+00	1.07E-04	3.95E-04	0.00E+00
112	587541.1	4154135	1.19E-03	2.82E-03	0.00E+00	2.41E-03	2.85E-03	0.00E+00	1.92E-04	6.41E-04	0.00E+00	1.08E-04	4.01E-04	0.00E+00
113	587532.9	4154140	1.20E-03	2.85E-03	0.00E+00	2.44E-03	2.89E-03	0.00E+00	1.95E-04	6.49E-04	0.00E+00	1.10E-04	4.06E-04	0.00E+00
114	587576.7	4154100	9.91E-04	2.35E-03	0.00E+00	2.01E-03	2.38E-03	0.00E+00	1.60E-04	5.35E-04	0.00E+00	9.05E-05	3.35E-04	0.00E+00
115	587568.5	4154105	1.02E-03	2.42E-03	0.00E+00	2.07E-03	2.45E-03	0.00E+00	1.65E-04	5.50E-04	0.00E+00	9.31E-05	3.45E-04	0.00E+00
116	587560.3	4154111	1.05E-03	2.48E-03	0.00E+00	2.13E-03	2.51E-03	0.00E+00	1.69E-04	5.65E-04	0.00E+00	9.55E-05	3.54E-04	0.00E+00
117	587552.1	4154116	1.07E-03	2.54E-03	0.00E+00	2.18E-03	2.57E-03	0.00E+00	1.73E-04	5.78E-04	0.00E+00	9.78E-05	3.62E-04	0.00E+00
118	587543.9	4154121	1.09E-03	2.59E-03	0.00E+00	2.22E-03	2.62E-03	0.00E+00	1.77E-04	5.90E-04	0.00E+00	9.98E-05	3.69E-04	0.00E+00
119	587535.7	4154127	1.11E-03	2.64E-03	0.00E+00	2.26E-03	2.67E-03	0.00E+00	1.80E-04	6.00E-04	0.00E+00	1.01E-04	3.75E-04	0.00E+00
120	587571.3	4154092	9.29E-04	2.20E-03	0.00E+00	1.89E-03	2.23E-03	0.00E+00	1.50E-04	5.02E-04	0.00E+00	8.48E-05	3.14E-04	0.00E+00
121	587563.1	4154097	9.56E-04	2.27E-03	0.00E+00	1.94E-03	2.30E-03	0.00E+00	1.55E-04	5.16E-04	0.00E+00	8.72E-05	3.23E-04	0.00E+00
122	587554.9	4154102	9.81E-04	2.33E-03	0.00E+00	1.99E-03	2.36E-03	0.00E+00	1.59E-04	5.29E-04	0.00E+00	8.95E-05	3.31E-04	0.00E+00
123	587546.7	4154108	1.00E-03	2.38E-03	0.00E+00	2.04E-03	2.41E-03	0.00E+00	1.63E-04	5.42E-04	0.00E+00	9.16E-05	3.39E-04	0.00E+00
124	587538.5	4154113	1.02E-03	2.43E-03	0.00E+00	2.08E-03	2.46E-03	0.00E+00	1.66E-04	5.53E-04	0.00E+00	9.35E-05	3.46E-04	0.00E+00
125	587530.3	4154118	1.04E-03	2.47E-03	0.00E+00	2.12E-03	2.50E-03	0.00E+00	1.69E-04	5.62E-04	0.00E+00	9.50E-05	3.52E-04	0.00E+00
126	587565.9	4154083	8.73E-04	2.07E-03	0.00E+00	1.78E-03	2.10E-03	0.00E+00	1.41E-04	4.72E-04	0.00E+00	7.97E-05	2.95E-04	0.00E+00
127	587557.7	4154089	8.98E-04	2.13E-03	0.00E+00	1.83E-03	2.16E-03	0.00E+00	1.45E-04	4.85E-04	0.00E+00	8.20E-05	3.04E-04	0.00E+00
128	587549.5	4154094	9.21E-04	2.19E-03	0.00E+00	1.87E-03	2.21E-03	0.00E+00	1.49E-04	4.97E-04	0.00E+00	8.41E-05	3.11E-04	0.00E+00
129	587541.2	4154099	9.43E-04	2.24E-03	0.00E+00	1.92E-03	2.26E-03	0.00E+00	1.53E-04	5.09E-04	0.00E+00	8.61E-05	3.19E-04	0.00E+00
130	587533	4154105	9.62E-04	2.28E-03	0.00E+00	1.95E-03	2.31E-03	0.00E+00	1.56E-04	5.19E-04	0.00E+00	8.78E-05	3.25E-04	0.00E+00
131	587524.8	4154110	9.78E-04	2.32E-03	0.00E+00	1.99E-03	2.35E-03	0.00E+00	1.58E-04	5.28E-04	0.00E+00	8.93E-05	3.31E-04	0.00E+00
132	587560.4	4154075	8.23E-04	1.95E-03	0.00E+00	1.67E-03	1.98E-03	0.00E+00	1.33E-04	4.44E-04	0.00E+00	7.51E-05	2.78E-04	0.00E+00
133	587552.2	4154080	8.46E-04	2.01E-03	0.00E+00	1.72E-03	2.03E-03	0.00E+00	1.37E-04	4.57E-04	0.00E+00	7.72E-05	2.86E-04	0.00E+00
134	587544	4154086	8.67E-04	2.06E-03	0.00E+00	1.76E-03	2.08E-03	0.00E+00	1.40E-04	4.68E-04	0.00E+00	7.92E-05	2.93E-04	0.00E+00
135	587535.8	4154091	8.87E-04	2.11E-03	0.00E+00	1.80E-03	2.13E-03	0.00E+00	1.44E-04	4.79E-04	0.00E+00	8.10E-05	3.00E-04	0.00E+00
136	587527.6	4154096	9.05E-04	2.15E-03	0.00E+00	1.84E-03	2.17E-03	0.00E+00	1.47E-04	4.89E-04	0.00E+00	8.27E-05	3.06E-04	0.00E+00
137	587519.4	4154101	9.21E-04	2.19E-03	0.00E+00	1.87E-03	2.21E-03	0.00E+00	1.49E-04	4.97E-04	0.00E+00	8.41E-05	3.11E-04	0.00E+00
138	587555	4154066	7.77E-04	1.84E-03	0.00E+00	1.58E-03	1.87E-03	0.00E+00	1.26E-04	4.20E-04	0.00E+00	7.10E-05	2.63E-04	0.00E+00
139	587546.8	4154072	7.98E-04	1.89E-03	0.00E+00	1.62E-03	1.92E-03	0.00E+00	1.29E-04	4.31E-04	0.00E+00	7.29E-05	2.70E-04	0.00E+00
140	587538.6	4154077	8.18E-04	1.94E-03	0.00E+00	1.66E-03	1.97E-03	0.00E+00	1.33E-04	4.42E-04	0.00E+00	7.47E-05	2.77E-04	0.00E+00
141	587530.4	4154082	8.37E-04	1.99E-03	0.00E+00	1.70E-03	2.01E-03	0.00E+00	1.36E-04	4.52E-04	0.00E+00	7.64E-05	2.83E-04	0.00E+00
142	587522.2	4154088	8.54E-04	2.03E-03	0.00E+00	1.74E-03	2.05E-03	0.00E+00	1.38E-04	4.61E-04	0.00E+00	7.80E-05	2.89E-04	0.00E+00
143	587514	4154093	8.69E-04	2.06E-03	0.00E+00	1.77E-03	2.09E-03	0.00E+00	1.41E-04	4.69E-04	0.00E+00	7.93E-05	2.94E-04	0.00E+00
144	587549.6	4154058	7.35E-04	1.75E-03	0.00E+00	1.49E-03	1.77E-03	0.00E+00	1.19E-04	3.97E-04	0.00E+00	6.71E-05	2.49E-04	0.00E+00
145	587541.4	4154063	7.55E-04	1.79E-03	0.00E+00	1.53E-03	1.81E-03	0.00E+00	1.22E-04	4.08E-04	0.00E+00	6.89E-05	2.55E-04	0.00E+00
146	587533.2	4154069	7.74E-04	1.84E-03	0.00E+00	1.57E-03	1.86E-03	0.00E+00	1.25E-04	4.18E-04	0.00E+00	7.06E-05	2.62E-04	0.00E+00
147	587524.9	4154074	7.91E-04	1.88E-03	0.00E+00	1.61E-03	1.90E-03	0.00E+00	1.28E-04	4.27E-04	0.00E+00	7.22E-05	2.67E-04	0.00E+00
148	587516.7	4154079	8.07E-04	1.92E-03	0.00E+00	1.64E-03	1.94E-03	0.00E+00	1.31E-04	4.36E-04	0.00E+00	7.37E-05	2.73E-04	0.00E+00
149	587508.5	4154085	8.21E-04	1.95E-03	0.00E+00	1.67E-03	1.97E-03	0.00E+00	1.33E-04	4.43E-04	0.00E+00	7.49E-05	2.77E-04	0.00E+00
150	587544.2	4154050	6.97E-04	1.65E-03	0.00E+00	1.42E-03	1.67E-03	0.00E+00	1.13E-04	3.76E-04	0.00E+00	6.36E-05	2.36E-04	0.00E+00
151	587535.9	4154055	7.15E-04	1.70E-03	0.00E+00	1.45E-03	1.72E-03	0.00E+00	1.16E-04	3.86E-04	0.00E+00	6.53E-05	2.42E-04	0.00E+00
152	587527.7	4154060	7.33E-04	1.74E-03	0.00E+00	1.49E-03	1.76E-03	0.00E+00	1.19E-04	3.95E-04	0.00E+00	6.69E-05	2.48E-04	0.00E+00
153	587519.5	4154066	7.49E-04	1.78E-03	0.00E+00	1.52E-03	1.80E-03	0.00E+00	1.21E-04	4.04E-04	0.00E+00	6.84E-05	2.53E-04	0.00E+00
154	587511.3	4154071	7.64E-04	1.81E-03	0.00E+00	1.55E-03	1.83E-03	0.00E+00	1.24E-04	4.12E-04	0.00E+00	6.97E-05	2.58E-04	0.00E+00
155	587503.1	4154076	7.77E-04	1.84E-03	0.00E+00	1.58E-03	1.87E-03	0.00E+00	1.26E-04	4.19E-04	0.00E+00	7.09E-05	2.63E-04	0.00E+00
156	587538.7	4154041	6.62E-04	1.57E-03	0.00E+00	1.35E-03	1.59E-03	0.00E+00	1.07E-04	3.57E-04	0.00E+00	6.04E-05	2.24E-04	0.00E+00
157	587530.5	4154047	6.79E-04	1.61E-03	0.00E+00	1.38E-03	1.63E-03	0.00E+00	1.10E-04	3.66E-04	0.00E+00	6.20E-05	2.29E-04	0.00E+00
158	587522.3	4154052	6.95E-04	1.65E-03	0.00E+00	1.41E-03	1.67E-03	0.00E+00	1.13E-04	3.75E-04	0.00E+00	6.35E-05	2.35E-04	0.00E+00
159	587514.1	4154057	7.10E-04	1.69E-03	0.00E+00	1.44E-03	1.71E-03	0.00E+00	1.15E-04	3.83E-04	0.00E+00	6.48E-05	2.40E-04	0.00E+00
160	587505.9	4154063	7.24E-04	1.72E-03	0.00E+00	1.47E-03	1.74E-03	0.00E+00	1.17E-04	3.91E-04	0.00E+00	6.61E-05	2.45E-04	0.00E+00
161	587497.7	4154068	7.36E-04	1.75E-03	0.00E+00	1.50E-03	1.77E-03	0.00E+00	1.19E-04	3.97E-04	0.00E+00	6.72E-05	2.49E-04	0.00E+00
162	587533.3	4154033	6.29E-04	1.49E-03	0.00E+00	1.28E-03	1.51E-03	0.00E+00	1.02E-04	3.40E-04	0.00E+00	5.75E-05	2.13E-04	0.00E+00
163	587525.1	4154038	6.45E-04	1.53E-03	0.00E+00	1.31E-03	1.55E-03	0.00E+00	1.04E-04	3.48E-04	0.00E+00	5.89E-05	2.18E-04	0.00E+00
164	587516.9	4154044	6.60E-04	1.57E-03	0.00E+00	1.34E-03	1.59E-03	0.00E+00	1.07E-04	3.56E-04	0.00E+00	6.03E-05	2.23E-04	0.00E+00
165	587508.7	4154049	6.74E-04	1.60E-03	0.00E+00	1.37E-03	1.62E-03	0.00E+00	1.09E-04	3.64E-04	0.00E+00	6.16E-05	2.28E-04	0.00E+00
166	587500.4	4154054	6.87E-04	1.63E-03	0.00E+00	1.40E-03	1.65E-03	0.00E+00	1.11E-04	3.71E-04	0.00E+00	6.27E-05	2.32E-04	0.00E+00
167	587492.2	4154059	6.99E-04	1.66E-03	0.00E+00	1.42E-03	1.68E-03	0.00E+00	1.13E-04	3.77E-04	0.00E+00	6.38E-05	2.36E-04	0.00E+00
168	587527.9	4154025	5.99E-04	1.42E-03	0.00E+00	1.22E-03	1.44E-03	0.00E+00	9.71E-05	3.24E-04	0.00E+00	5.47E-05	2.03E-04	0.00E+00
169	587519.6	4154030	6.14E-04	1.46E-03	0.00E+00	1.25E-03	1.47E-03	0.00E+00	9.94E-05	3.31E-04	0.00E+00	5.61E-05	2.08E-04	0.00E+00
170	587511.4	4154035	6.28E-04	1.49E-03	0.00E+00	1.28E-03	1.51E-03	0.00E+00	1.02E-04	3.39E-04	0.00E+00	5.74E-05	2.12E-04	0.00E+00
171	587503.2	4154040	6.41E-04	1.52E-03	0.00E+00	1.30E-03	1.54E-03	0.00E+00	1.04E-04	3.46E-04	0.00E+00	5.85E-05	2.17E-04	0.00E+00
172	587495	4154046	6.53E-04	1.55E-03	0.00E+00	1.33E-03	1.57E-03	0.00E+00	1.06E-04	3.53E-04	0.00E+00	5.96E-05	2.21E-04	0.00E+00
173	587486.8	4154051	6.64E-04	1.58E-03	0.00E+00	1.35E-03	1.60E-03	0.00E+00	1.08E-04	3.58E-04	0.00E+00	6.06E-05	2.24E-04	0.00E+00
174	587522.4	4154016	5.72E-04	1.36E-03	0.00E+00	1.16E-03	1.37E-03	0.00E+00	9.26E-05	3.09E-04	0.00E+00	5.22E-05	1.93E-04	0.00E+00
175	587514.2	4154021	5.85E-04	1.39E-03	0.00E+00	1.19E-03	1.41E-03	0.00E+00	9.48E-05	3.16E-04	0.00E+00	5.34E-05	1.98E-04	0.00E+00
176	587506	4154027	5.98E-04	1.42E-03	0.00E+00	1.22E-03	1.44E-03	0.00E+00	9.69E-05	3.23E-04	0.00E+00	5.46E-05	2.02E-04	0.00E+00
177	587497.8	4154032	6.11E-04	1.45E-03	0.00E+00	1.24E-03	1.47E-03	0.00E+00	9.89E-05	3.30E-04	0.00E+00	5.57E-05	2.06E-04	0.00E+00
178	587489.6	4154037	6.22E-04	1.48E-03	0.00E+00	1.26E-03	1.49E-03	0.00E+00	1.01E-04	3.36E-04	0.00E+00	5.68E-05	2.10E-04	0.00E+00
179	587481.4	4154043	6.32E-04	1.50E-03	0.00E+00	1.28E-03	1.52E-03	0.00E+00	1.02E-04	3.41E-04	0.00E+00	5.77E-05	2.14E-04	0.00E+00

180	587602.9	4154297	6.78E-03	1.61E-02	0.00E+00	1.38E-02	1.63E-02	0.00E+00	1.10E-03	3.66E-03	0.00E+00	6.19E-04	2.29E-03	0.00E+00
181	587588.5	4154306	5.82E-03	1.38E-02	0.00E+00	1.18E-02	1.40E-02	0.00E+00	9.43E-04	3.14E-03	0.00E+00	5.31E-04	1.97E-03	0.00E+00
182	587597.5	4154289	5.65E-03	1.34E-02	0.00E+00	1.15E-02	1.36E-02	0.00E+00	9.15E-04	3.05E-03	0.00E+00	5.16E-04	1.91E-03	0.00E+00
183	587583.2	4154298	4.95E-03	1.18E-02	0.00E+00	1.01E-02	1.19E-02	0.00E+00	8.02E-04	2.67E-03	0.00E+00	4.52E-04	1.67E-03	0.00E+00
184	587592.2	4154280	4.82E-03	1.14E-02	0.00E+00	9.80E-03	1.16E-02	0.00E+00	7.81E-04	2.60E-03	0.00E+00	4.40E-04	1.63E-03	0.00E+00
185	587577.8	4154290	4.30E-03	1.02E-02	0.00E+00	8.74E-03	1.03E-02	0.00E+00	6.96E-04	2.32E-03	0.00E+00	3.92E-04	1.45E-03	0.00E+00
186	587586.8	4154272	4.19E-03	9.94E-03	0.00E+00	8.51E-03	1.01E-02	0.00E+00	6.78E-04	2.26E-03	0.00E+00	3.82E-04	1.42E-03	0.00E+00
187	587572.5	4154281	3.79E-03	8.98E-03	0.00E+00	7.69E-03	9.09E-03	0.00E+00	6.13E-04	2.04E-03	0.00E+00	3.46E-04	1.28E-03	0.00E+00
188	587581.5	4154264	3.69E-03	8.75E-03	0.00E+00	7.50E-03	8.86E-03	0.00E+00	5.97E-04	1.99E-03	0.00E+00	3.37E-04	1.25E-03	0.00E+00
189	587567.1	4154273	3.37E-03	7.99E-03	0.00E+00	6.84E-03	8.09E-03	0.00E+00	5.45E-04	1.82E-03	0.00E+00	3.07E-04	1.14E-03	0.00E+00
190	587576.1	4154255	3.28E-03	7.79E-03	0.00E+00	6.67E-03	7.88E-03	0.00E+00	5.31E-04	1.77E-03	0.00E+00	3.00E-04	1.11E-03	0.00E+00
191	587561.7	4154264	3.02E-03	7.17E-03	0.00E+00	6.14E-03	7.26E-03	0.00E+00	4.89E-04	1.63E-03	0.00E+00	2.76E-04	1.02E-03	0.00E+00
192	587570.7	4154247	2.94E-03	6.99E-03	0.00E+00	5.98E-03	7.07E-03	0.00E+00	4.77E-04	1.59E-03	0.00E+00	2.69E-04	9.95E-04	0.00E+00
193	587556.4	4154256	2.74E-03	6.49E-03	0.00E+00	5.56E-03	6.57E-03	0.00E+00	4.43E-04	1.48E-03	0.00E+00	2.50E-04	9.25E-04	0.00E+00
194	587565.4	4154238	2.66E-03	6.31E-03	0.00E+00	5.41E-03	6.39E-03	0.00E+00	4.31E-04	1.44E-03	0.00E+00	2.43E-04	8.99E-04	0.00E+00
195	587551	4154247	2.49E-03	5.92E-03	0.00E+00	5.07E-03	5.99E-03	0.00E+00	4.04E-04	1.35E-03	0.00E+00	2.28E-04	8.43E-04	0.00E+00
196	587560	4154230	2.42E-03	5.74E-03	0.00E+00	4.91E-03	5.81E-03	0.00E+00	3.92E-04	1.31E-03	0.00E+00	2.21E-04	8.17E-04	0.00E+00
197	587545.7	4154239	2.29E-03	5.43E-03	0.00E+00	4.65E-03	5.49E-03	0.00E+00	3.70E-04	1.23E-03	0.00E+00	2.09E-04	7.73E-04	0.00E+00
198	587554.7	4154221	2.21E-03	5.24E-03	0.00E+00	4.49E-03	5.30E-03	0.00E+00	3.58E-04	1.19E-03	0.00E+00	2.02E-04	7.46E-04	0.00E+00
199	587540.3	4154231	2.10E-03	4.99E-03	0.00E+00	4.28E-03	5.05E-03	0.00E+00	3.41E-04	1.14E-03	0.00E+00	1.92E-04	7.11E-04	0.00E+00
200	587549.3	4154213	2.03E-03	4.81E-03	0.00E+00	4.12E-03	4.87E-03	0.00E+00	3.28E-04	1.09E-03	0.00E+00	1.85E-04	6.85E-04	0.00E+00
201	587534.9	4154222	1.94E-03	4.61E-03	0.00E+00	3.95E-03	4.66E-03	0.00E+00	3.14E-04	1.05E-03	0.00E+00	1.77E-04	6.56E-04	0.00E+00
202	587543.9	4154205	1.87E-03	4.43E-03	0.00E+00	3.79E-03	4.48E-03	0.00E+00	3.02E-04	1.01E-03	0.00E+00	1.70E-04	6.30E-04	0.00E+00
203	587529.6	4154214	1.80E-03	4.27E-03	0.00E+00	3.65E-03	4.32E-03	0.00E+00	2.91E-04	9.70E-04	0.00E+00	1.64E-04	6.08E-04	0.00E+00
204	587538.6	4154196	1.72E-03	4.09E-03	0.00E+00	3.50E-03	4.14E-03	0.00E+00	2.79E-04	9.30E-04	0.00E+00	1.57E-04	5.83E-04	0.00E+00
205	587524.2	4154205	1.67E-03	3.96E-03	0.00E+00	3.39E-03	4.01E-03	0.00E+00	2.70E-04	9.01E-04	0.00E+00	1.52E-04	5.64E-04	0.00E+00
206	587533.2	4154188	1.60E-03	3.79E-03	0.00E+00	3.25E-03	3.84E-03	0.00E+00	2.59E-04	8.63E-04	0.00E+00	1.46E-04	5.40E-04	0.00E+00
207	587518.9	4154197	1.55E-03	3.69E-03	0.00E+00	3.16E-03	3.73E-03	0.00E+00	2.52E-04	8.39E-04	0.00E+00	1.42E-04	5.25E-04	0.00E+00
208	587513.5	4154188	1.45E-03	3.44E-03	0.00E+00	2.95E-03	3.49E-03	0.00E+00	2.35E-04	7.83E-04	0.00E+00	1.32E-04	4.91E-04	0.00E+00
209	587511.8	4154154	1.21E-03	2.87E-03	0.00E+00	2.46E-03	2.91E-03	0.00E+00	1.96E-04	6.54E-04	0.00E+00	1.11E-04	4.09E-04	0.00E+00
210	587506.4	4154145	1.14E-03	2.70E-03	0.00E+00	2.31E-03	2.73E-03	0.00E+00	1.84E-04	6.13E-04	0.00E+00	1.04E-04	3.84E-04	0.00E+00
211	587492.1	4154155	1.12E-03	2.66E-03	0.00E+00	2.28E-03	2.70E-03	0.00E+00	1.82E-04	6.06E-04	0.00E+00	1.02E-04	3.79E-04	0.00E+00
212	587501.1	4154137	1.07E-03	2.53E-03	0.00E+00	2.17E-03	2.56E-03	0.00E+00	1.73E-04	5.76E-04	0.00E+00	9.75E-05	3.61E-04	0.00E+00
213	587486.7	4154146	1.06E-03	2.51E-03	0.00E+00	2.15E-03	2.54E-03	0.00E+00	1.71E-04	5.71E-04	0.00E+00	9.66E-05	3.58E-04	0.00E+00
214	587495.7	4154129	1.01E-03	2.39E-03	0.00E+00	2.04E-03	2.42E-03	0.00E+00	1.63E-04	5.43E-04	0.00E+00	9.19E-05	3.40E-04	0.00E+00
215	587481.3	4154138	9.99E-04	2.37E-03	0.00E+00	2.03E-03	2.40E-03	0.00E+00	1.62E-04	5.39E-04	0.00E+00	9.12E-05	3.38E-04	0.00E+00
216	587490.3	4154120	9.50E-04	2.25E-03	0.00E+00	1.93E-03	2.28E-03	0.00E+00	1.54E-04	5.13E-04	0.00E+00	8.67E-05	3.21E-04	0.00E+00
217	587476	4154129	9.45E-04	2.24E-03	0.00E+00	1.92E-03	2.27E-03	0.00E+00	1.53E-04	5.10E-04	0.00E+00	8.63E-05	3.20E-04	0.00E+00
218	587485	4154112	8.98E-04	2.13E-03	0.00E+00	1.82E-03	2.16E-03	0.00E+00	1.45E-04	4.85E-04	0.00E+00	8.20E-05	3.04E-04	0.00E+00
219	587470.6	4154121	8.95E-04	2.12E-03	0.00E+00	1.82E-03	2.15E-03	0.00E+00	1.45E-04	4.83E-04	0.00E+00	8.17E-05	3.03E-04	0.00E+00
220	587479.6	4154103	8.50E-04	2.02E-03	0.00E+00	1.73E-03	2.04E-03	0.00E+00	1.38E-04	4.59E-04	0.00E+00	7.76E-05	2.87E-04	0.00E+00
221	587465.3	4154112	8.48E-04	2.01E-03	0.00E+00	1.72E-03	2.04E-03	0.00E+00	1.37E-04	4.58E-04	0.00E+00	7.74E-05	2.87E-04	0.00E+00
222	587474.3	4154095	8.05E-04	1.91E-03	0.00E+00	1.64E-03	1.93E-03	0.00E+00	1.30E-04	4.35E-04	0.00E+00	7.35E-05	2.72E-04	0.00E+00
223	587459.9	4154104	8.05E-04	1.91E-03	0.00E+00	1.64E-03	1.93E-03	0.00E+00	1.30E-04	4.35E-04	0.00E+00	7.35E-05	2.72E-04	0.00E+00
224	587468.9	4154086	7.64E-04	1.81E-03	0.00E+00	1.55E-03	1.84E-03	0.00E+00	1.24E-04	4.13E-04	0.00E+00	6.98E-05	2.58E-04	0.00E+00
225	587454.5	4154095	7.66E-04	1.82E-03	0.00E+00	1.56E-03	1.84E-03	0.00E+00	1.24E-04	4.13E-04	0.00E+00	6.99E-05	2.59E-04	0.00E+00
226	587463.6	4154078	7.26E-04	1.72E-03	0.00E+00	1.47E-03	1.74E-03	0.00E+00	1.18E-04	3.92E-04	0.00E+00	6.63E-05	2.45E-04	0.00E+00
227	587449.2	4154087	7.29E-04	1.73E-03	0.00E+00	1.48E-03	1.75E-03	0.00E+00	1.18E-04	3.94E-04	0.00E+00	6.66E-05	2.47E-04	0.00E+00
228	587458.2	4154069	6.90E-04	1.64E-03	0.00E+00	1.40E-03	1.66E-03	0.00E+00	1.12E-04	3.72E-04	0.00E+00	6.30E-05	2.33E-04	0.00E+00
229	587443.8	4154079	6.94E-04	1.65E-03	0.00E+00	1.41E-03	1.67E-03	0.00E+00	1.12E-04	3.75E-04	0.00E+00	6.34E-05	2.35E-04	0.00E+00
230	587452.8	4154061	6.57E-04	1.56E-03	0.00E+00	1.33E-03	1.58E-03	0.00E+00	1.06E-04	3.54E-04	0.00E+00	5.99E-05	2.22E-04	0.00E+00
231	587438.5	4154070	6.62E-04	1.57E-03	0.00E+00	1.35E-03	1.59E-03	0.00E+00	1.07E-04	3.57E-04	0.00E+00	6.04E-05	2.24E-04	0.00E+00
232	587562.7	4154322	3.75E-03	8.91E-03	0.00E+00	7.63E-03	9.02E-03	0.00E+00	6.08E-04	2.03E-03	0.00E+00	3.43E-04	1.27E-03	0.00E+00
233	587550.4	4154336	2.93E-03	6.95E-03	0.00E+00	5.95E-03	7.04E-03	0.00E+00	4.74E-04	1.58E-03	0.00E+00	2.67E-04	9.90E-04	0.00E+00
234	587554	4154318	3.23E-03	7.66E-03	0.00E+00	6.56E-03	7.76E-03	0.00E+00	5.23E-04	1.74E-03	0.00E+00	2.95E-04	1.09E-03	0.00E+00
235	587559.5	4154310	3.53E-03	8.39E-03	0.00E+00	7.18E-03	8.49E-03	0.00E+00	5.72E-04	1.91E-03	0.00E+00	3.23E-04	1.19E-03	0.00E+00
236	587542.4	4154343	2.51E-03	5.96E-03	0.00E+00	5.10E-03	6.03E-03	0.00E+00	4.06E-04	1.35E-03	0.00E+00	2.29E-04	8.48E-04	0.00E+00
237	587540.5	4154334	2.52E-03	5.98E-03	0.00E+00	5.12E-03	6.06E-03	0.00E+00	4.08E-04	1.36E-03	0.00E+00	2.30E-04	8.52E-04	0.00E+00
238	587544	4154317	2.76E-03	6.55E-03	0.00E+00	5.61E-03	6.63E-03	0.00E+00	4.47E-04	1.49E-03	0.00E+00	2.52E-04	9.33E-04	0.00E+00
239	587549.3	4154309	3.00E-03	7.12E-03	0.00E+00	6.10E-03	7.21E-03	0.00E+00	4.86E-04	1.62E-03	0.00E+00	2.74E-04	1.01E-03	0.00E+00
240	587554.6	4154301	3.23E-03	7.65E-03	0.00E+00	6.56E-03	7.75E-03	0.00E+00	5.22E-04	1.74E-03	0.00E+00	2.94E-04	1.09E-03	0.00E+00
241	587534.3	4154349	2.17E-03	5.15E-03	0.00E+00	4.41E-03	5.22E-03	0.00E+00	3.52E-04	1.17E-03	0.00E+00	1.98E-04	7.34E-04	0.00E+00
242	587530.7	4154331	2.20E-03	5.22E-03	0.00E+00	4.47E-03	5.29E-03	0.00E+00	3.56E-04	1.19E-03	0.00E+00	2.01E-04	7.44E-04	0.00E+00
243	587534	4154315	2.39E-03	5.68E-03	0.00E+00	4.87E-03	5.75E-03	0.00E+00	3.88E-04	1.29E-03	0.00E+00	2.19E-04	8.10E-04	0.00E+00
244	587539.2	4154307	2.59E-03	6.15E-03	0.00E+00	5.27E-03	6.23E-03	0.00E+00	4.20E-04	1.40E-03	0.00E+00	2.37E-04	8.77E-04	0.00E+00
245	587544.4	4154300	2.78E-03	6.60E-03	0.00E+00	5.65E-03	6.68E-03	0.00E+00	4.50E-04	1.50E-03	0.00E+00	2.54E-04	9.40E-04	0.00E+00
246	587549.6	4154292	2.95E-03	6.99E-03	0.00E+00	5.99E-03	7.08E-03	0.00E+00	4.77E-04	1.59E-03	0.00E+00	2.69E-04	9.96E-04	0.00E+00
247	587526.1	4154355	1.90E-03	4.50E-03	0.00E+00	3.85E-03	4.55E-03	0.00E+00	3.07E-04	1.02E-03	0.00E+00	1.73E-04	6.41E-04	0.00E+00
248	587522.6	4154338	1.94E-03	4.59E-03	0.00E+00	3.93E-03	4.65E-03	0.00E+00	3.13E-04	1.04E-03	0.00E+00	1.77E-04	6.54E-04	0.00E+00
249	587524.1	4154313	2.11E-03	5.00E-03	0.00E+00	4.28E-03	5.06E-03	0.00E+00	3.41E-04	1.14E-03	0.00E+00	1.92E-04	7.12E-04	0.00E+00
250	587529.2	4154306	2.27E-03	5.39E-03	0.00E+00	4.61E-03	5.45E-03	0.00E+00	3.68E-04	1.23E-03	0.00E+00	2.07E-04	7.67E-04	0.00E+00
251	587539.3	4154291	2.57E-03	6.11E-03	0.00E+00	5.23E-03	6.18E-03	0.00E+00	4.17E-04	1.39E-03	0.00E+00	2.35E-04	8.70E-04	0.00E+00
252	587544.4	4154284	2.70E-03	6.40E-03	0.00E+00	5.48E-03	6.47E-03	0.00E+00	4.37E-04	1.45E-03	0.00E+00	2.46E-04	9.11E-04	0.00E+00
253	587518	4154361	1.67E-03	3.96E-03	0.00E+00	3.39E-03	4.01E-03	0.00E+00	2.70E-04	9.01E-04	0.00E+00	1.52E-04	5.64E-04	0.00E+00
254	587514.5	4154344	1.71E-03	4.06E-03	0.00E+00	3.48E-03	4.11E-03	0.00E+00	2.77E-04	9.24E-04	0.00E+00	1.56E-04	5.79E-04	0.00E+00
255	587511	4154327	1.73E-03	4.11E-03	0.00E+00	3.52E-03	4.16E-03	0.00E+00	2.80E-04	9.35E-04	0.00E+00	1.58E-04	5.85E-04	0.00E+00
256	587514.3	4154311	1.87E-03	4.44E-03	0.00E+00	3.80E-03	4.49E-03	0.00E+00	3.03E-04	1.01E-03	0.00E+00	1.71E-04	6.32E-04	0.00E+00
257	587524.2	4154297	2.14E-03	5.09E-03	0.00E+00	4.36E-03	5.15E-03	0.00E+00	3.47E-04	1.16E-03	0.00E+00	1.96E-04	7.25E-04	0.00E+00
258	587534.2	4154282	2.38E-03	5.66E-03	0.00E+00	4.85E-03	5.73E-03	0.00E+00	3.86E-04	1.29E-03	0.00E+00	2.18E-04	8.06E-04	0.00E+00
259	587509.1	4154364	1.49E-03	3.53E-03	0.00E+00	3.03E-03	3.58E-03	0.00E+00	2.41E-04	8.04E-04	0.00E+00	1.36E-04	5.03E-04	0.00E+00
260	587507.2	4154355	1.51E-03	3.59E-03	0.00E+00	3.08E-03	3.63E-03	0.00E+00	2.45E-04	8.17E-04	0.00E+00	1.38E-04	5.11E-04	0.00E+00
261	587505.3	4154345	1.53E-03	3.64E-03	0.00E+00	3.11E-03	3.68E-03	0.00E+00	2.48E-04	8.27E-04	0.00E+00	1.40E-04	5.18E-04	0.00E+00
262	587503.3	4154335	1.55E-03	3.67E-03	0.00E+00	3.14E-03	3.72E-03	0.00E+00	2.51E-04	8.35E-04	0.00E+00	1.41E-04	5.23E-04	0.00E+00
263	587501.4	4154326	1.56E-03	3.70E-03	0.00E+00	3.17E-03	3.74E-03	0.00E+00	2.52E-04	8.41E-04	0.00E+00	1.42E-04	5.26E-04	0.00E+00
264	587516.1	4154292	1.95E-03	4.63E-03	0.00E+00	3.97E-03	4.69E-03	0.00E+00	3.16E-04	1.05E-03	0.00E+00	1.78E-04	6.60E-04	0.00E+00
265	587521.7	4154284	2.08E-03	4.93E-03	0.00E+00	4.22E-03	4.99E-03	0.00E+00	3.36E-04	1.12E-03	0.00E+00	1.90E-04	7.02E-04	0.00E+00
266	587527.2	4154276	2.18E-03	5.18E-03	0.00E+00	4.44E-03	5.25E-03	0.00E+00	3.54E-04	1.18E-03	0.00E+00	1.99E-04	7.38E-04	0.00E+00
267	587532.7	4154268	2.27E-03	5.39E-03	0.00E+00	4.62E-03	5.46E-03	0.00E+00	3.68E-04	1.23E-03	0.00E+00	2.07E-04	7.68E-04	0.00E+00
268	587501	4154370	1.33E-03	3.15E-03	0.00E+00	2.70E-03	3.19E-03	0.00E+00	2.15E-04	7.17E-04	0.00E+00	1.21E-04	4.49E-04	0.00E+00
269	587499.1	4154361	1.35E-03	3.21E-03	0.00E+00	2.75E-03	3.25E-03	0.00E+00	2.19E-04	7.29E-04	0.00E+00	1.23E-04	4.57E-04	0.00E+00
270	587497.2	4154352	1.37E-03	3.25E-03	0.00E+00	2.79E-03	3.29E-03	0.00E+00	2.22E-04	7.40E-04	0.00E+00	1.25E-04	4.63E-04	0.00E+00

271	587495.3	4154342	1.39E-03	3.29E-03	0.00E+00	2.82E-03	3.33E-03	0.00E+00	2.25E-04	7.49E-04	0.00E+00	1.27E-04	4.69E-04	0.00E+00
272	587493.5	4154333	1.40E-03	3.32E-03	0.00E+00	2.85E-03	3.36E-03	0.00E+00	2.27E-04	7.56E-04	0.00E+00	1.28E-04	4.73E-04	0.00E+00
273	587495.1	4154306	1.53E-03	3.62E-03	0.00E+00	3.10E-03	3.67E-03	0.00E+00	2.47E-04	8.24E-04	0.00E+00	1.39E-04	5.16E-04	0.00E+00
274	587511.4	4154283	1.86E-03	4.41E-03	0.00E+00	3.77E-03	4.46E-03	0.00E+00	3.01E-04	1.00E-03	0.00E+00	1.70E-04	6.28E-04	0.00E+00
275	587516.8	4154275	1.96E-03	4.64E-03	0.00E+00	3.98E-03	4.70E-03	0.00E+00	3.17E-04	1.06E-03	0.00E+00	1.79E-04	6.62E-04	0.00E+00
276	587522.2	4154267	2.04E-03	4.85E-03	0.00E+00	4.15E-03	4.91E-03	0.00E+00	3.31E-04	1.10E-03	0.00E+00	1.86E-04	6.90E-04	0.00E+00
277	587527.6	4154259	2.11E-03	5.02E-03	0.00E+00	4.30E-03	5.08E-03	0.00E+00	3.42E-04	1.14E-03	0.00E+00	1.93E-04	7.15E-04	0.00E+00
278	587492.9	4154377	1.19E-03	2.83E-03	0.00E+00	2.43E-03	2.87E-03	0.00E+00	1.93E-04	6.45E-04	0.00E+00	1.09E-04	4.04E-04	0.00E+00
279	587491	4154367	1.21E-03	2.88E-03	0.00E+00	2.47E-03	2.92E-03	0.00E+00	1.97E-04	6.56E-04	0.00E+00	1.11E-04	4.10E-04	0.00E+00
280	587489.2	4154358	1.23E-03	2.93E-03	0.00E+00	2.51E-03	2.96E-03	0.00E+00	2.00E-04	6.65E-04	0.00E+00	1.13E-04	4.17E-04	0.00E+00
281	587487.3	4154349	1.25E-03	2.96E-03	0.00E+00	2.54E-03	3.00E-03	0.00E+00	2.02E-04	6.74E-04	0.00E+00	1.14E-04	4.22E-04	0.00E+00
282	587485.4	4154340	1.26E-03	3.00E-03	0.00E+00	2.57E-03	3.03E-03	0.00E+00	2.05E-04	6.82E-04	0.00E+00	1.15E-04	4.27E-04	0.00E+00
283	587485.2	4154305	1.39E-03	3.29E-03	0.00E+00	2.82E-03	3.33E-03	0.00E+00	2.24E-04	7.48E-04	0.00E+00	1.26E-04	4.68E-04	0.00E+00
284	587490.5	4154297	1.48E-03	3.52E-03	0.00E+00	3.01E-03	3.56E-03	0.00E+00	2.40E-04	8.00E-04	0.00E+00	1.35E-04	5.01E-04	0.00E+00
285	587506.5	4154274	1.76E-03	4.18E-03	0.00E+00	3.58E-03	4.23E-03	0.00E+00	2.85E-04	9.52E-04	0.00E+00	1.61E-04	5.96E-04	0.00E+00
286	587511.8	4154266	1.84E-03	4.38E-03	0.00E+00	3.75E-03	4.43E-03	0.00E+00	2.99E-04	9.96E-04	0.00E+00	1.68E-04	6.24E-04	0.00E+00
287	587517.2	4154258	1.91E-03	4.54E-03	0.00E+00	3.89E-03	4.60E-03	0.00E+00	3.10E-04	1.03E-03	0.00E+00	1.75E-04	6.47E-04	0.00E+00
288	587522.5	4154251	1.97E-03	4.68E-03	0.00E+00	4.00E-03	4.73E-03	0.00E+00	3.19E-04	1.06E-03	0.00E+00	1.80E-04	6.66E-04	0.00E+00
289	587484.7	4154383	1.08E-03	2.56E-03	0.00E+00	2.19E-03	2.59E-03	0.00E+00	1.75E-04	5.83E-04	0.00E+00	9.86E-05	3.65E-04	0.00E+00
290	587482.9	4154374	1.10E-03	2.61E-03	0.00E+00	2.23E-03	2.64E-03	0.00E+00	1.78E-04	5.93E-04	0.00E+00	1.00E-04	3.71E-04	0.00E+00
291	587481	4154365	1.11E-03	2.64E-03	0.00E+00	2.27E-03	2.68E-03	0.00E+00	1.80E-04	6.02E-04	0.00E+00	1.02E-04	3.77E-04	0.00E+00
292	587479.2	4154356	1.13E-03	2.68E-03	0.00E+00	2.30E-03	2.71E-03	0.00E+00	1.83E-04	6.10E-04	0.00E+00	1.03E-04	3.82E-04	0.00E+00
293	587477.4	4154346	1.14E-03	2.71E-03	0.00E+00	2.32E-03	2.75E-03	0.00E+00	1.85E-04	6.17E-04	0.00E+00	1.04E-04	3.87E-04	0.00E+00
294	587475.6	4154337	1.16E-03	2.74E-03	0.00E+00	2.35E-03	2.78E-03	0.00E+00	1.87E-04	6.24E-04	0.00E+00	1.06E-04	3.91E-04	0.00E+00
295	587475.3	4154303	1.26E-03	3.00E-03	0.00E+00	2.57E-03	3.04E-03	0.00E+00	2.05E-04	6.82E-04	0.00E+00	1.15E-04	4.27E-04	0.00E+00
296	587480.6	4154295	1.35E-03	3.20E-03	0.00E+00	2.74E-03	3.24E-03	0.00E+00	2.18E-04	7.28E-04	0.00E+00	1.23E-04	4.56E-04	0.00E+00
297	587485.8	4154287	1.43E-03	3.40E-03	0.00E+00	2.91E-03	3.44E-03	0.00E+00	2.32E-04	7.73E-04	0.00E+00	1.31E-04	4.84E-04	0.00E+00
298	587501.5	4154265	1.67E-03	3.97E-03	0.00E+00	3.40E-03	4.01E-03	0.00E+00	2.71E-04	9.02E-04	0.00E+00	1.53E-04	5.65E-04	0.00E+00
299	587506.8	4154257	1.74E-03	4.12E-03	0.00E+00	3.53E-03	4.18E-03	0.00E+00	2.81E-04	9.38E-04	0.00E+00	1.59E-04	5.88E-04	0.00E+00
300	587512	4154249	1.79E-03	4.26E-03	0.00E+00	3.65E-03	4.31E-03	0.00E+00	2.91E-04	9.69E-04	0.00E+00	1.64E-04	6.07E-04	0.00E+00
301	587517.3	4154242	1.84E-03	4.36E-03	0.00E+00	3.74E-03	4.42E-03	0.00E+00	2.98E-04	9.92E-04	0.00E+00	1.68E-04	6.21E-04	0.00E+00
302	587476	4154386	9.87E-04	2.34E-03	0.00E+00	2.01E-03	2.37E-03	0.00E+00	1.60E-04	5.33E-04	0.00E+00	9.01E-05	3.34E-04	0.00E+00
303	587474.1	4154376	1.00E-03	2.38E-03	0.00E+00	2.04E-03	2.41E-03	0.00E+00	1.63E-04	5.42E-04	0.00E+00	9.16E-05	3.39E-04	0.00E+00
304	587472.1	4154367	1.02E-03	2.42E-03	0.00E+00	2.07E-03	2.45E-03	0.00E+00	1.65E-04	5.50E-04	0.00E+00	9.31E-05	3.45E-04	0.00E+00
305	587470.1	4154357	1.03E-03	2.45E-03	0.00E+00	2.10E-03	2.48E-03	0.00E+00	1.67E-04	5.58E-04	0.00E+00	9.44E-05	3.50E-04	0.00E+00
306	587468.2	4154347	1.05E-03	2.49E-03	0.00E+00	2.13E-03	2.52E-03	0.00E+00	1.70E-04	5.65E-04	0.00E+00	9.56E-05	3.54E-04	0.00E+00
307	587466.2	4154337	1.06E-03	2.51E-03	0.00E+00	2.15E-03	2.55E-03	0.00E+00	1.72E-04	5.72E-04	0.00E+00	9.68E-05	3.58E-04	0.00E+00
308	587465.9	4154300	1.17E-03	2.76E-03	0.00E+00	2.37E-03	2.80E-03	0.00E+00	1.89E-04	6.29E-04	0.00E+00	1.06E-04	3.94E-04	0.00E+00
309	587471.6	4154292	1.25E-03	2.96E-03	0.00E+00	2.53E-03	2.99E-03	0.00E+00	2.02E-04	6.72E-04	0.00E+00	1.14E-04	4.21E-04	0.00E+00
310	587477.2	4154284	1.33E-03	3.15E-03	0.00E+00	2.70E-03	3.19E-03	0.00E+00	2.15E-04	7.16E-04	0.00E+00	1.21E-04	4.49E-04	0.00E+00
311	587482.9	4154275	1.41E-03	3.34E-03	0.00E+00	2.86E-03	3.38E-03	0.00E+00	2.28E-04	7.60E-04	0.00E+00	1.28E-04	4.76E-04	0.00E+00
312	587499.8	4154251	1.62E-03	3.84E-03	0.00E+00	3.29E-03	3.89E-03	0.00E+00	2.62E-04	8.75E-04	0.00E+00	1.48E-04	5.48E-04	0.00E+00
313	587505.5	4154243	1.67E-03	3.97E-03	0.00E+00	3.40E-03	4.02E-03	0.00E+00	2.71E-04	9.03E-04	0.00E+00	1.53E-04	5.65E-04	0.00E+00
314	587511.1	4154235	1.71E-03	4.06E-03	0.00E+00	3.48E-03	4.11E-03	0.00E+00	2.77E-04	9.25E-04	0.00E+00	1.56E-04	5.79E-04	0.00E+00
315	587467.9	4154392	9.01E-04	2.14E-03	0.00E+00	1.83E-03	2.17E-03	0.00E+00	1.46E-04	4.87E-04	0.00E+00	8.23E-05	3.05E-04	0.00E+00
316	587465.9	4154383	9.17E-04	2.18E-03	0.00E+00	1.86E-03	2.20E-03	0.00E+00	1.48E-04	4.95E-04	0.00E+00	8.37E-05	3.10E-04	0.00E+00
317	587464	4154373	9.31E-04	2.21E-03	0.00E+00	1.89E-03	2.24E-03	0.00E+00	1.51E-04	5.02E-04	0.00E+00	8.50E-05	3.15E-04	0.00E+00
318	587462.1	4154364	9.44E-04	2.24E-03	0.00E+00	1.92E-03	2.27E-03	0.00E+00	1.53E-04	5.10E-04	0.00E+00	8.62E-05	3.19E-04	0.00E+00
319	587460.2	4154354	9.56E-04	2.27E-03	0.00E+00	1.94E-03	2.30E-03	0.00E+00	1.55E-04	5.16E-04	0.00E+00	8.73E-05	3.23E-04	0.00E+00
320	587458.2	4154345	9.68E-04	2.30E-03	0.00E+00	1.97E-03	2.32E-03	0.00E+00	1.57E-04	5.23E-04	0.00E+00	8.84E-05	3.27E-04	0.00E+00
321	587456.3	4154335	9.79E-04	2.32E-03	0.00E+00	1.99E-03	2.35E-03	0.00E+00	1.59E-04	5.28E-04	0.00E+00	8.94E-05	3.31E-04	0.00E+00
322	587454.4	4154325	9.89E-04	2.35E-03	0.00E+00	2.01E-03	2.37E-03	0.00E+00	1.60E-04	5.34E-04	0.00E+00	9.03E-05	3.34E-04	0.00E+00
323	587452.4	4154316	9.97E-04	2.37E-03	0.00E+00	2.03E-03	2.40E-03	0.00E+00	1.62E-04	5.38E-04	0.00E+00	9.11E-05	3.37E-04	0.00E+00
324	587456	4154298	1.07E-03	2.54E-03	0.00E+00	2.18E-03	2.58E-03	0.00E+00	1.74E-04	5.79E-04	0.00E+00	9.79E-05	3.62E-04	0.00E+00
325	587461.6	4154290	1.14E-03	2.71E-03	0.00E+00	2.32E-03	2.74E-03	0.00E+00	1.85E-04	6.17E-04	0.00E+00	1.04E-04	3.86E-04	0.00E+00
326	587467.1	4154282	1.21E-03	2.88E-03	0.00E+00	2.47E-03	2.92E-03	0.00E+00	1.97E-04	6.56E-04	0.00E+00	1.11E-04	4.11E-04	0.00E+00
327	587472.7	4154274	0.001286	0.003052	0.00E+00	2.61E-03	3.09E-03	0.00E+00	2.08E-04	6.94E-04	0.00E+00	1.17E-04	4.35E-04	0.00E+00
328	587478.2	4154266	0.001355	0.003216	0.00E+00	2.75E-03	3.25E-03	0.00E+00	2.19E-04	7.31E-04	0.00E+00	1.24E-04	4.58E-04	0.00E+00
329	587494.9	4154242	0.001533	0.003637	0.00E+00	3.12E-03	3.68E-03	0.00E+00	2.48E-04	8.27E-04	0.00E+00	1.40E-04	5.18E-04	0.00E+00
330	587500.4	4154234	0.001574	0.003736	0.00E+00	3.20E-03	3.78E-03	0.00E+00	2.55E-04	8.50E-04	0.00E+00	1.44E-04	5.32E-04	0.00E+00
331	587506	4154226	0.001605	0.003808	0.00E+00	3.26E-03	3.85E-03	0.00E+00	2.60E-04	8.66E-04	0.00E+00	1.47E-04	5.42E-04	0.00E+00
332	587459.7	4154398	0.000828	0.001964	0.00E+00	1.68E-03	1.99E-03	0.00E+00	1.34E-04	4.47E-04	0.00E+00	7.56E-05	2.80E-04	0.00E+00
333	587457.8	4154389	0.000841	0.001996	0.00E+00	1.71E-03	2.02E-03	0.00E+00	1.36E-04	4.54E-04	0.00E+00	7.68E-05	2.84E-04	0.00E+00
334	587455.9	4154380	0.000854	0.002026	0.00E+00	1.74E-03	2.05E-03	0.00E+00	1.38E-04	4.61E-04	0.00E+00	7.79E-05	2.89E-04	0.00E+00
335	587454	4154370	0.000865	0.002054	0.00E+00	1.76E-03	2.08E-03	0.00E+00	1.40E-04	4.67E-04	0.00E+00	7.90E-05	2.93E-04	0.00E+00
336	587452.1	4154361	0.000877	0.002081	0.00E+00	1.78E-03	2.11E-03	0.00E+00	1.42E-04	4.73E-04	0.00E+00	8.00E-05	2.96E-04	0.00E+00
337	587450.2	4154351	0.000887	0.002106	0.00E+00	1.80E-03	2.13E-03	0.00E+00	1.44E-04	4.79E-04	0.00E+00	8.10E-05	3.00E-04	0.00E+00
338	587448.3	4154342	0.000898	0.00213	0.00E+00	1.82E-03	2.16E-03	0.00E+00	1.45E-04	4.85E-04	0.00E+00	8.20E-05	3.03E-04	0.00E+00
339	587446.4	4154333	0.000907	0.002153	0.00E+00	1.84E-03	2.18E-03	0.00E+00	1.47E-04	4.90E-04	0.00E+00	8.28E-05	3.07E-04	0.00E+00
340	587444.5	4154323	0.000916	0.002175	0.00E+00	1.86E-03	2.20E-03	0.00E+00	1.48E-04	4.95E-04	0.00E+00	8.37E-05	3.10E-04	0.00E+00
341	587442.6	4154314	0.000924	0.002194	0.00E+00	1.88E-03	2.22E-03	0.00E+00	1.50E-04	4.99E-04	0.00E+00	8.44E-05	3.12E-04	0.00E+00
342	587446.2	4154296	0.000991	0.002351	0.00E+00	2.01E-03	2.38E-03	0.00E+00	1.60E-04	5.35E-04	0.00E+00	9.05E-05	3.35E-04	0.00E+00
343	587451.6	4154288	0.001053	0.002499	0.00E+00	2.14E-03	2.53E-03	0.00E+00	1.71E-04	5.68E-04	0.00E+00	9.62E-05	3.56E-04	0.00E+00
344	587457.1	4154280	0.001117	0.002651	0.00E+00	2.27E-03	2.68E-03	0.00E+00	1.81E-04	6.03E-04	0.00E+00	1.02E-04	3.78E-04	0.00E+00
345	587462.5	4154273	0.001181	0.002802	0.00E+00	2.40E-03	2.84E-03	0.00E+00	1.91E-04	6.37E-04	0.00E+00	1.08E-04	3.99E-04	0.00E+00
346	587468	4154265	0.001244	0.002951	0.00E+00	2.53E-03	2.99E-03	0.00E+00	2.01E-04	6.71E-04	0.00E+00	1.14E-04	4.20E-04	0.00E+00
347	587473.5	4154257	0.001304	0.003094	0.00E+00	2.65E-03	3.13E-03	0.00E+00	2.11E-04	7.04E-04	0.00E+00	1.19E-04	4.41E-04	0.00E+00
348	587484.4	4154241	0.001408	0.003342	0.00E+00	2.86E-03	3.38E-03	0.00E+00	2.28E-04	7.60E-04	0.00E+00	1.29E-04	4.76E-04	0.00E+00
349	587489.8	4154233	0.00145	0.003441	0.00E+00	2.95E-03	3.48E-03	0.00E+00	2.35E-04	7.83E-04	0.00E+00	1.32E-04	4.90E-04	0.00E+00
350	587495.3	4154225	0.001482	0.003517	0.00E+00	3.01E-03	3.56E-03	0.00E+00	2.40E-04	8.00E-04	0.00E+00	1.35E-04	5.01E-04	0.00E+00
351	587500.8	4154217	0.001505	0.003572	0.00E+00	3.06E-03	3.62E-03	0.00E+00	2.44E-04	8.13E-04	0.00E+00	1.37E-04	5.09E-04	0.00E+00
352	587449.7	4154395	0.000775	0.001839	0.00E+00	1.58E-03	1.86E-03	0.00E+00	1.26E-04	4.18E-04	0.00E+00	7.08E-05	2.62E-04	0.00E+00
353	587447.8	4154386	0.000786	0.001866	0.00E+00	1.60E-03	1.89E-03	0.00E+00	1.27E-04	4.25E-04	0.00E+00	7.18E-05	2.66E-04	0.00E+00
354	587445.9	4154377	0.000797	0.001891	0.00E+00	1.62E-03	1.91E-03	0.00E+00	1.29E-04	4.30E-04	0.00E+00	7.28E-05	2.69E-04	0.00E+00
355	587444	4154367	0.000807	0.001915	0.00E+00	1.64E-03	1.94E-03	0.00E+00	1.31E-04	4.36E-04	0.00E+00	7.37E-05	2.73E-04	0.00E+00
356	587442.2	4154358	0.000817	0.001938	0.00E+00	1.66E-03	1.96E-03	0.00E+00	1.32E-04	4.41E-04	0.00E+00	7.46E-05	2.76E-04	0.00E+00
357	587440.3	4154349	0.000826	0.001961	0.00E+00	1.68E-03	1.98E-03	0.00E+00	1.34E-04	4.46E-04	0.00E+00	7.54E-05	2.79E-04	0.00E+00
358	587438.4	4154339	0.000835	0.001982	0.00E+00	1.70E-03	2.01E-03	0.00E+00	1.35E-04	4.51E-04	0.00E+00	7.63E-05	2.82E-04	0.00E+00
359	587436.5	4154330	0.000844	0.002003	0.00E+00	1.72E-03	2.03E-03	0.00E+00	1.37E-04	4.56E-04	0.00E+00	7.71E-05	2.85E-04	0.00E+00
360	587434.7	4154321	0.000852	0.002023	0.00E+00	1.73E-03	2.05E-03	0.00E+00	1.38E-04	4.60E-04	0.00E+00	7.78E-05	2.88E-04	0.00E+00
361	587432.8	4154312	0.00086	0.00204	0.00E+00	1.75E-03	2.07E-03	0.00E+00	1.39E-04	4.64E-04	0.00E+00	7.85E-05	2.91E-04	0.00E+00

362	587436.3	4154294	0.000919	0.002181	0.00E+00	1.87E-03	2.21E-03	0.00E+00	1.49E-04	4.96E-04	0.00E+00	8.39E-05	3.11E-04	0.00E+00
363	587441.7	4154287	0.000974	0.002312	0.00E+00	1.98E-03	2.34E-03	0.00E+00	1.58E-04	5.26E-04	0.00E+00	8.90E-05	3.29E-04	0.00E+00
364	587447.1	4154279	0.001031	0.002447	0.00E+00	2.10E-03	2.48E-03	0.00E+00	1.67E-04	5.57E-04	0.00E+00	9.41E-05	3.49E-04	0.00E+00
365	587452.5	4154271	0.001089	0.002584	0.00E+00	2.21E-03	2.62E-03	0.00E+00	1.76E-04	5.88E-04	0.00E+00	9.94E-05	3.68E-04	0.00E+00
366	587457.8	4154263	0.001146	0.002719	0.00E+00	2.33E-03	2.75E-03	0.00E+00	1.86E-04	6.18E-04	0.00E+00	1.05E-04	3.87E-04	0.00E+00
367	587463.2	4154255	0.001201	0.002849	0.00E+00	2.44E-03	2.88E-03	0.00E+00	1.94E-04	6.48E-04	0.00E+00	1.10E-04	4.06E-04	0.00E+00
368	587468.6	4154248	0.001252	0.002972	0.00E+00	2.55E-03	3.01E-03	0.00E+00	2.03E-04	6.76E-04	0.00E+00	1.14E-04	4.23E-04	0.00E+00
369	587479.4	4154232	0.001339	0.003178	0.00E+00	2.72E-03	3.22E-03	0.00E+00	2.17E-04	7.23E-04	0.00E+00	1.22E-04	4.53E-04	0.00E+00
370	587484.8	4154224	0.001371	0.003254	0.00E+00	2.79E-03	3.29E-03	0.00E+00	2.22E-04	7.40E-04	0.00E+00	1.25E-04	4.63E-04	0.00E+00
371	587490.2	4154216	0.001396	0.003314	0.00E+00	2.84E-03	3.35E-03	0.00E+00	2.26E-04	7.54E-04	0.00E+00	1.27E-04	4.72E-04	0.00E+00
372	587495.5	4154208	0.001414	0.003355	0.00E+00	2.87E-03	3.40E-03	0.00E+00	2.29E-04	7.63E-04	0.00E+00	1.29E-04	4.78E-04	0.00E+00
373	587441.5	4154401	0.000717	0.001702	0.00E+00	1.46E-03	1.72E-03	0.00E+00	1.16E-04	3.87E-04	0.00E+00	6.55E-05	2.42E-04	0.00E+00
374	587439.6	4154392	0.000727	0.001725	0.00E+00	1.48E-03	1.75E-03	0.00E+00	1.18E-04	3.92E-04	0.00E+00	6.64E-05	2.46E-04	0.00E+00
375	587437.8	4154383	0.000737	0.001748	0.00E+00	1.50E-03	1.77E-03	0.00E+00	1.19E-04	3.98E-04	0.00E+00	6.73E-05	2.49E-04	0.00E+00
376	587435.9	4154374	0.000746	0.00177	0.00E+00	1.52E-03	1.79E-03	0.00E+00	1.21E-04	4.03E-04	0.00E+00	6.81E-05	2.52E-04	0.00E+00
377	587434.1	4154365	0.000754	0.00179	0.00E+00	1.53E-03	1.81E-03	0.00E+00	1.22E-04	4.07E-04	0.00E+00	6.89E-05	2.55E-04	0.00E+00
378	587432.2	4154355	0.000763	0.001811	0.00E+00	1.55E-03	1.83E-03	0.00E+00	1.24E-04	4.12E-04	0.00E+00	6.97E-05	2.58E-04	0.00E+00
379	587430.4	4154346	0.000771	0.001831	0.00E+00	1.57E-03	1.85E-03	0.00E+00	1.25E-04	4.16E-04	0.00E+00	7.04E-05	2.61E-04	0.00E+00
380	587428.5	4154337	0.00078	0.00185	0.00E+00	1.58E-03	1.87E-03	0.00E+00	1.26E-04	4.21E-04	0.00E+00	7.12E-05	2.64E-04	0.00E+00
381	587426.7	4154328	0.000788	0.001869	0.00E+00	1.60E-03	1.89E-03	0.00E+00	1.28E-04	4.25E-04	0.00E+00	7.19E-05	2.66E-04	0.00E+00
382	587424.8	4154319	0.000795	0.001887	0.00E+00	1.62E-03	1.91E-03	0.00E+00	1.29E-04	4.29E-04	0.00E+00	7.26E-05	2.69E-04	0.00E+00
383	587423	4154309	0.000802	0.001904	0.00E+00	1.63E-03	1.93E-03	0.00E+00	1.30E-04	4.33E-04	0.00E+00	7.32E-05	2.71E-04	0.00E+00
384	587426.4	4154292	0.000855	0.00203	0.00E+00	1.74E-03	2.05E-03	0.00E+00	1.39E-04	4.62E-04	0.00E+00	7.81E-05	2.89E-04	0.00E+00
385	587431.8	4154285	0.000905	0.002147	0.00E+00	1.84E-03	2.17E-03	0.00E+00	1.47E-04	4.88E-04	0.00E+00	8.26E-05	3.06E-04	0.00E+00
386	587437.1	4154277	0.000955	0.002267	0.00E+00	1.94E-03	2.30E-03	0.00E+00	1.55E-04	5.16E-04	0.00E+00	8.72E-05	3.23E-04	0.00E+00
387	587442.4	4154269	0.001007	0.00239	0.00E+00	2.05E-03	2.42E-03	0.00E+00	1.63E-04	5.44E-04	0.00E+00	9.20E-05	3.40E-04	0.00E+00
388	587447.7	4154262	0.001059	0.002513	0.00E+00	2.15E-03	2.54E-03	0.00E+00	1.71E-04	5.72E-04	0.00E+00	9.67E-05	3.58E-04	0.00E+00
389	587453.1	4154254	0.00111	0.002633	0.00E+00	2.26E-03	2.67E-03	0.00E+00	1.80E-04	5.99E-04	0.00E+00	1.01E-04	3.75E-04	0.00E+00
390	587474.3	4154223	0.001273	0.003022	0.00E+00	2.59E-03	3.06E-03	0.00E+00	2.06E-04	6.87E-04	0.00E+00	1.16E-04	4.30E-04	0.00E+00
391	587479.7	4154215	0.001299	0.003082	0.00E+00	2.64E-03	3.12E-03	0.00E+00	2.10E-04	7.01E-04	0.00E+00	1.19E-04	4.39E-04	0.00E+00
392	587485	4154208	0.001316	0.003124	0.00E+00	2.68E-03	3.16E-03	0.00E+00	2.13E-04	7.11E-04	0.00E+00	1.20E-04	4.45E-04	0.00E+00
393	587490.3	4154200	0.00133	0.003156	0.00E+00	2.70E-03	3.19E-03	0.00E+00	2.15E-04	7.18E-04	0.00E+00	1.21E-04	4.50E-04	0.00E+00
394	587434.8	4154415	0.000658	0.001561	0.00E+00	1.34E-03	1.58E-03	0.00E+00	1.07E-04	3.55E-04	0.00E+00	6.01E-05	2.22E-04	0.00E+00
395	587432.8	4154405	0.000668	0.001586	0.00E+00	1.36E-03	1.60E-03	0.00E+00	1.08E-04	3.61E-04	0.00E+00	6.10E-05	2.26E-04	0.00E+00
396	587430.9	4154395	0.000678	0.001608	0.00E+00	1.38E-03	1.63E-03	0.00E+00	1.10E-04	3.66E-04	0.00E+00	6.19E-05	2.29E-04	0.00E+00
397	587428.9	4154386	0.000687	0.001629	0.00E+00	1.40E-03	1.65E-03	0.00E+00	1.11E-04	3.71E-04	0.00E+00	6.27E-05	2.32E-04	0.00E+00
398	587427	4154376	0.000695	0.00165	0.00E+00	1.41E-03	1.67E-03	0.00E+00	1.13E-04	3.75E-04	0.00E+00	6.35E-05	2.35E-04	0.00E+00
399	587425	4154366	0.000703	0.00167	0.00E+00	1.43E-03	1.69E-03	0.00E+00	1.14E-04	3.80E-04	0.00E+00	6.42E-05	2.38E-04	0.00E+00
400	587423.1	4154356	0.000712	0.001689	0.00E+00	1.45E-03	1.71E-03	0.00E+00	1.15E-04	3.84E-04	0.00E+00	6.50E-05	2.41E-04	0.00E+00
401	587421.1	4154347	0.00072	0.001708	0.00E+00	1.46E-03	1.73E-03	0.00E+00	1.17E-04	3.89E-04	0.00E+00	6.57E-05	2.43E-04	0.00E+00
402	587419.1	4154337	0.000728	0.001727	0.00E+00	1.48E-03	1.75E-03	0.00E+00	1.18E-04	3.93E-04	0.00E+00	6.65E-05	2.46E-04	0.00E+00
403	587417.2	4154327	0.000736	0.001746	0.00E+00	1.50E-03	1.77E-03	0.00E+00	1.19E-04	3.97E-04	0.00E+00	6.72E-05	2.49E-04	0.00E+00
404	587415.2	4154318	0.000743	0.001764	0.00E+00	1.51E-03	1.79E-03	0.00E+00	1.20E-04	4.01E-04	0.00E+00	6.79E-05	2.51E-04	0.00E+00
405	587413.3	4154308	0.00075	0.00178	0.00E+00	1.52E-03	1.80E-03	0.00E+00	1.21E-04	4.05E-04	0.00E+00	6.85E-05	2.54E-04	0.00E+00
406	587416.9	4154290	0.000802	0.001902	0.00E+00	1.63E-03	1.93E-03	0.00E+00	1.30E-04	4.33E-04	0.00E+00	7.32E-05	2.71E-04	0.00E+00
407	587422.6	4154282	0.000849	0.002014	0.00E+00	1.73E-03	2.04E-03	0.00E+00	1.37E-04	4.58E-04	0.00E+00	7.75E-05	2.87E-04	0.00E+00
408	587428.2	4154274	0.000898	0.002131	0.00E+00	1.82E-03	2.16E-03	0.00E+00	1.45E-04	4.85E-04	0.00E+00	8.20E-05	3.03E-04	0.00E+00
409	587467.5	4154217	0.001204	0.002856	0.00E+00	2.45E-03	2.89E-03	0.00E+00	1.95E-04	6.50E-04	0.00E+00	1.10E-04	4.07E-04	0.00E+00
410	587473.1	4154209	0.001227	0.002912	0.00E+00	2.49E-03	2.95E-03	0.00E+00	1.99E-04	6.62E-04	0.00E+00	1.12E-04	4.15E-04	0.00E+00
411	587478.7	4154200	0.001243	0.00295	0.00E+00	2.53E-03	2.99E-03	0.00E+00	2.01E-04	6.71E-04	0.00E+00	1.14E-04	4.20E-04	0.00E+00
412	587484.4	4154192	0.001253	0.002972	0.00E+00	2.55E-03	3.01E-03	0.00E+00	2.03E-04	6.76E-04	0.00E+00	1.14E-04	4.23E-04	0.00E+00
413	587424.7	4154411	0.000622	0.001476	0.00E+00	1.26E-03	1.49E-03	0.00E+00	1.01E-04	3.36E-04	0.00E+00	5.68E-05	2.10E-04	0.00E+00
414	587422.8	4154402	0.000631	0.001497	0.00E+00	1.28E-03	1.51E-03	0.00E+00	1.02E-04	3.40E-04	0.00E+00	5.76E-05	2.13E-04	0.00E+00
415	587420.8	4154392	0.000639	0.001516	0.00E+00	1.30E-03	1.53E-03	0.00E+00	1.03E-04	3.45E-04	0.00E+00	5.83E-05	2.16E-04	0.00E+00
416	587418.9	4154382	0.000646	0.001534	0.00E+00	1.31E-03	1.55E-03	0.00E+00	1.05E-04	3.49E-04	0.00E+00	5.90E-05	2.18E-04	0.00E+00
417	587417	4154373	0.000654	0.001552	0.00E+00	1.33E-03	1.57E-03	0.00E+00	1.06E-04	3.53E-04	0.00E+00	5.97E-05	2.21E-04	0.00E+00
418	587415	4154363	0.000661	0.001569	0.00E+00	1.34E-03	1.59E-03	0.00E+00	1.07E-04	3.57E-04	0.00E+00	6.04E-05	2.24E-04	0.00E+00
419	587413.1	4154354	0.000669	0.001587	0.00E+00	1.36E-03	1.61E-03	0.00E+00	1.08E-04	3.61E-04	0.00E+00	6.10E-05	2.26E-04	0.00E+00
420	587411.2	4154344	0.000676	0.001604	0.00E+00	1.37E-03	1.62E-03	0.00E+00	1.09E-04	3.65E-04	0.00E+00	6.17E-05	2.28E-04	0.00E+00
421	587409.2	4154334	0.000683	0.001621	0.00E+00	1.39E-03	1.64E-03	0.00E+00	1.11E-04	3.69E-04	0.00E+00	6.24E-05	2.31E-04	0.00E+00
422	587407.3	4154325	0.00069	0.001638	0.00E+00	1.40E-03	1.66E-03	0.00E+00	1.12E-04	3.73E-04	0.00E+00	6.30E-05	2.33E-04	0.00E+00
423	587405.4	4154315	0.000697	0.001655	0.00E+00	1.42E-03	1.67E-03	0.00E+00	1.13E-04	3.76E-04	0.00E+00	6.37E-05	2.36E-04	0.00E+00
424	587403.4	4154306	0.000704	0.00167	0.00E+00	1.43E-03	1.69E-03	0.00E+00	1.14E-04	3.80E-04	0.00E+00	6.43E-05	2.38E-04	0.00E+00
425	587407.1	4154288	0.00075	0.00178	0.00E+00	1.52E-03	1.80E-03	0.00E+00	1.22E-04	4.05E-04	0.00E+00	6.85E-05	2.54E-04	0.00E+00
426	587412.6	4154280	0.000793	0.001881	0.00E+00	1.61E-03	1.90E-03	0.00E+00	1.28E-04	4.28E-04	0.00E+00	7.24E-05	2.68E-04	0.00E+00
427	587418.2	4154272	0.000837	0.001985	0.00E+00	1.70E-03	2.01E-03	0.00E+00	1.35E-04	4.52E-04	0.00E+00	7.64E-05	2.83E-04	0.00E+00
428	587440.3	4154240	0.001014	0.002406	0.00E+00	2.06E-03	2.44E-03	0.00E+00	1.64E-04	5.47E-04	0.00E+00	9.26E-05	3.43E-04	0.00E+00
429	587445.9	4154232	0.001054	0.002502	0.00E+00	2.14E-03	2.53E-03	0.00E+00	1.71E-04	5.69E-04	0.00E+00	9.62E-05	3.56E-04	0.00E+00
430	587462.5	4154208	0.001148	0.002724	0.00E+00	2.33E-03	2.76E-03	0.00E+00	1.86E-04	6.20E-04	0.00E+00	1.05E-04	3.88E-04	0.00E+00
431	587468.1	4154200	0.001166	0.002768	0.00E+00	2.37E-03	2.80E-03	0.00E+00	1.89E-04	6.30E-04	0.00E+00	1.06E-04	3.94E-04	0.00E+00
432	587473.6	4154192	0.001178	0.002797	0.00E+00	2.40E-03	2.83E-03	0.00E+00	1.91E-04	6.36E-04	0.00E+00	1.08E-04	3.98E-04	0.00E+00
433	587479.2	4154184	0.001184	0.00281	0.00E+00	2.41E-03	2.84E-03	0.00E+00	1.92E-04	6.39E-04	0.00E+00	1.08E-04	4.00E-04	0.00E+00
434	587416.5	4154417	0.000581	0.001378	0.00E+00	1.18E-03	1.40E-03	0.00E+00	9.41E-05	3.14E-04	0.00E+00	5.30E-05	1.96E-04	0.00E+00
435	587414.6	4154408	0.000589	0.001397	0.00E+00	1.20E-03	1.41E-03	0.00E+00	9.53E-05	3.18E-04	0.00E+00	5.37E-05	1.99E-04	0.00E+00
436	587412.7	4154398	0.000596	0.001414	0.00E+00	1.21E-03	1.43E-03	0.00E+00	9.65E-05	3.22E-04	0.00E+00	5.44E-05	2.01E-04	0.00E+00
437	587410.8	4154389	0.000603	0.001431	0.00E+00	1.23E-03	1.45E-03	0.00E+00	9.76E-05	3.25E-04	0.00E+00	5.50E-05	2.04E-04	0.00E+00
438	587408.9	4154379	0.00061	0.001447	0.00E+00	1.24E-03	1.46E-03	0.00E+00	9.87E-05	3.29E-04	0.00E+00	5.57E-05	2.06E-04	0.00E+00
439	587407	4154370	0.000616	0.001462	0.00E+00	1.25E-03	1.48E-03	0.00E+00	9.98E-05	3.33E-04	0.00E+00	5.63E-05	2.08E-04	0.00E+00
440	587403.2	4154351	0.00063	0.001494	0.00E+00	1.28E-03	1.51E-03	0.00E+00	1.02E-04	3.40E-04	0.00E+00	5.75E-05	2.13E-04	0.00E+00
441	587401.3	4154341	0.000636	0.00151	0.00E+00	1.29E-03	1.53E-03	0.00E+00	1.03E-04	3.43E-04	0.00E+00	5.81E-05	2.15E-04	0.00E+00
442	587399.4	4154332	0.000643	0.001526	0.00E+00	1.31E-03	1.54E-03	0.00E+00	1.04E-04	3.47E-04	0.00E+00	5.87E-05	2.17E-04	0.00E+00
443	587397.4	4154323	0.000649	0.001541	0.00E+00	1.32E-03	1.56E-03	0.00E+00	1.05E-04	3.51E-04	0.00E+00	5.93E-05	2.20E-04	0.00E+00
444	587395.5	4154313	0.000656	0.001556	0.00E+00	1.33E-03	1.58E-03	0.00E+00	1.06E-04	3.54E-04	0.00E+00	5.99E-05	2.22E-04	0.00E+00
445	587393.6	4154304	0.000662	0.001571	0.00E+00	1.35E-03	1.59E-03	0.00E+00	1.07E-04	3.57E-04	0.00E+00	6.04E-05	2.24E-04	0.00E+00
446	587397.2	4154286	0.000704	0.001671	0.00E+00	1.43E-03	1.69E-03	0.00E+00	1.14E-04	3.80E-04	0.00E+00	6.43E-05	2.38E-04	0.00E+00
447	587402.7	4154278	0.000742	0.001762	0.00E+00	1.51E-03	1.78E-03	0.00E+00	1.20E-04	4.01E-04	0.00E+00	6.78E-05	2.51E-04	0.00E+00
448	587408.2	4154270	0.000782	0.001856	0.00E+00	1.59E-03	1.88E-03	0.00E+00	1.27E-04	4.22E-04	0.00E+00	7.14E-05	2.64E-04	0.00E+00
449	587413.6	4154262	0.000822	0.001952	0.00E+00	1.67E-03	1.98E-03	0.00E+00	1.33E-04	4.44E-04	0.00E+00	7.51E-05	2.78E-04	0.00E+00
450	587430.1	4154239	0.000944	0.002239	0.00E+00	1.92E-03	2.27E-03	0.00E+00	1.53E-04	5.09E-04	0.00E+00	8.62E-05	3.19E-04	0.00E+00
451	587435.6	4154231	0.000981	0.002329	0.00E+00	1.99E-03	2.36E-03	0.00E+00	1.59E-04	5.30E-04	0.00E+00	8.96E-05	3.32E-04	0.00E+00
452	587441	4154223	0.001016	0.002411	0.00E+00	2.07E-03	2.44E-03	0.00E+00	1.65E-04	5.49E-04	0.00E+00	9.28E-05	3.43E-04	0.00E+00

453	587452	4154207	0.001074	0.002549	0.00E+00	2.18E-03	2.58E-03	0.00E+00	1.74E-04	5.80E-04	0.00E+00	9.81E-05	3.63E-04	0.00E+00
454	587457.5	4154199	0.001094	0.002597	0.00E+00	2.22E-03	2.63E-03	0.00E+00	1.77E-04	5.91E-04	0.00E+00	9.99E-05	3.70E-04	0.00E+00
455	587463	4154191	0.001109	0.002632	0.00E+00	2.25E-03	2.66E-03	0.00E+00	1.80E-04	5.99E-04	0.00E+00	1.01E-04	3.75E-04	0.00E+00
456	587468.4	4154183	0.001118	0.002652	0.00E+00	2.27E-03	2.68E-03	0.00E+00	1.81E-04	6.03E-04	0.00E+00	1.02E-04	3.78E-04	0.00E+00
457	587404.6	4154405	0.000558	0.001323	0.00E+00	1.13E-03	1.34E-03	0.00E+00	9.03E-05	3.01E-04	0.00E+00	5.09E-05	1.88E-04	0.00E+00
458	587402.7	4154395	0.000564	0.001338	0.00E+00	1.15E-03	1.35E-03	0.00E+00	9.13E-05	3.04E-04	0.00E+00	5.15E-05	1.91E-04	0.00E+00
459	587400.8	4154386	0.00057	0.001353	0.00E+00	1.16E-03	1.37E-03	0.00E+00	9.23E-05	3.08E-04	0.00E+00	5.20E-05	1.93E-04	0.00E+00
460	587398.9	4154376	0.000576	0.001367	0.00E+00	1.17E-03	1.38E-03	0.00E+00	9.33E-05	3.11E-04	0.00E+00	5.26E-05	1.95E-04	0.00E+00
461	587387.6	4154320	0.000612	0.001453	0.00E+00	1.24E-03	1.47E-03	0.00E+00	9.92E-05	3.31E-04	0.00E+00	5.59E-05	2.07E-04	0.00E+00
462	587385.7	4154311	0.000618	0.001467	0.00E+00	1.26E-03	1.49E-03	0.00E+00	1.00E-04	3.34E-04	0.00E+00	5.64E-05	2.09E-04	0.00E+00
463	587383.8	4154302	0.000624	0.001481	0.00E+00	1.27E-03	1.50E-03	0.00E+00	1.01E-04	3.37E-04	0.00E+00	5.70E-05	2.11E-04	0.00E+00
464	587387.3	4154284	0.000662	0.001572	0.00E+00	1.35E-03	1.59E-03	0.00E+00	1.07E-04	3.58E-04	0.00E+00	6.05E-05	2.24E-04	0.00E+00
465	587392.8	4154276	0.000697	0.001654	0.00E+00	1.42E-03	1.67E-03	0.00E+00	1.13E-04	3.76E-04	0.00E+00	6.36E-05	2.36E-04	0.00E+00
466	587398.2	4154269	0.000733	0.001739	0.00E+00	1.49E-03	1.76E-03	0.00E+00	1.19E-04	3.96E-04	0.00E+00	6.69E-05	2.48E-04	0.00E+00
467	587403.6	4154261	0.00077	0.001827	0.00E+00	1.56E-03	1.85E-03	0.00E+00	1.25E-04	4.15E-04	0.00E+00	7.03E-05	2.60E-04	0.00E+00
468	587409	4154253	0.000807	0.001915	0.00E+00	1.64E-03	1.94E-03	0.00E+00	1.31E-04	4.36E-04	0.00E+00	7.37E-05	2.73E-04	0.00E+00
469	587414.5	4154245	0.000844	0.002003	0.00E+00	1.72E-03	2.03E-03	0.00E+00	1.37E-04	4.56E-04	0.00E+00	7.71E-05	2.85E-04	0.00E+00
470	587419.9	4154237	0.000881	0.00209	0.00E+00	1.79E-03	2.12E-03	0.00E+00	1.43E-04	4.75E-04	0.00E+00	8.04E-05	2.98E-04	0.00E+00
471	587425.3	4154229	0.000916	0.002173	0.00E+00	1.86E-03	2.20E-03	0.00E+00	1.48E-04	4.94E-04	0.00E+00	8.36E-05	3.10E-04	0.00E+00
472	587430.7	4154221	0.000949	0.002251	0.00E+00	1.93E-03	2.28E-03	0.00E+00	1.54E-04	5.12E-04	0.00E+00	8.66E-05	3.21E-04	0.00E+00
473	587447	4154198	0.001027	0.002438	0.00E+00	2.09E-03	2.47E-03	0.00E+00	1.66E-04	5.55E-04	0.00E+00	9.38E-05	3.47E-04	0.00E+00
474	587452.4	4154190	0.001044	0.002477	0.00E+00	2.12E-03	2.51E-03	0.00E+00	1.69E-04	5.63E-04	0.00E+00	9.53E-05	3.53E-04	0.00E+00
475	587457.8	4154182	0.001055	0.002503	0.00E+00	2.14E-03	2.53E-03	0.00E+00	1.71E-04	5.69E-04	0.00E+00	9.63E-05	3.57E-04	0.00E+00
476	587390.8	4154383	0.00054	0.001281	0.00E+00	1.10E-03	1.30E-03	0.00E+00	8.74E-05	2.91E-04	0.00E+00	4.93E-05	1.82E-04	0.00E+00
477	587375.9	4154309	0.000584	0.001386	0.00E+00	1.19E-03	1.40E-03	0.00E+00	9.46E-05	3.15E-04	0.00E+00	5.33E-05	1.97E-04	0.00E+00
478	587374	4154299	0.000589	0.001399	0.00E+00	1.20E-03	1.42E-03	0.00E+00	9.54E-05	3.18E-04	0.00E+00	5.38E-05	1.99E-04	0.00E+00
479	587377.5	4154282	0.000624	0.001482	0.00E+00	1.27E-03	1.50E-03	0.00E+00	1.01E-04	3.37E-04	0.00E+00	5.70E-05	2.11E-04	0.00E+00
480	587382.9	4154275	0.000656	0.001556	0.00E+00	1.33E-03	1.58E-03	0.00E+00	1.06E-04	3.54E-04	0.00E+00	5.99E-05	2.22E-04	0.00E+00
481	587388.2	4154267	0.000689	0.001634	0.00E+00	1.40E-03	1.65E-03	0.00E+00	1.12E-04	3.72E-04	0.00E+00	6.29E-05	2.33E-04	0.00E+00
482	587393.6	4154259	0.000722	0.001714	0.00E+00	1.47E-03	1.73E-03	0.00E+00	1.17E-04	3.90E-04	0.00E+00	6.59E-05	2.44E-04	0.00E+00
483	587399	4154251	0.000756	0.001795	0.00E+00	1.54E-03	1.82E-03	0.00E+00	1.22E-04	4.08E-04	0.00E+00	6.90E-05	2.56E-04	0.00E+00
484	587404.4	4154243	0.00079	0.001876	0.00E+00	1.61E-03	1.90E-03	0.00E+00	1.28E-04	4.27E-04	0.00E+00	7.22E-05	2.67E-04	0.00E+00
485	587409.7	4154236	0.000824	0.001955	0.00E+00	1.67E-03	1.98E-03	0.00E+00	1.33E-04	4.45E-04	0.00E+00	7.52E-05	2.79E-04	0.00E+00
486	587415.1	4154228	0.000857	0.002033	0.00E+00	1.74E-03	2.06E-03	0.00E+00	1.39E-04	4.62E-04	0.00E+00	7.82E-05	2.90E-04	0.00E+00
487	587420.5	4154220	0.000887	0.002106	0.00E+00	1.80E-03	2.13E-03	0.00E+00	1.44E-04	4.79E-04	0.00E+00	8.10E-05	3.00E-04	0.00E+00
488	587436.6	4154197	0.000964	0.002288	0.00E+00	1.96E-03	2.32E-03	0.00E+00	1.56E-04	5.20E-04	0.00E+00	8.80E-05	3.26E-04	0.00E+00
489	587441.9	4154189	0.000983	0.002332	0.00E+00	2.00E-03	2.36E-03	0.00E+00	1.59E-04	5.30E-04	0.00E+00	8.97E-05	3.32E-04	0.00E+00
490	587447.3	4154181	0.000996	0.002364	0.00E+00	2.02E-03	2.39E-03	0.00E+00	1.61E-04	5.38E-04	0.00E+00	9.09E-05	3.37E-04	0.00E+00
491	587364.3	4154298	0.000557	0.001323	0.00E+00	1.13E-03	1.34E-03	0.00E+00	9.03E-05	3.01E-04	0.00E+00	5.09E-05	1.88E-04	0.00E+00
492	587367.9	4154280	0.000591	0.001403	0.00E+00	1.20E-03	1.42E-03	0.00E+00	9.58E-05	3.19E-04	0.00E+00	5.40E-05	2.00E-04	0.00E+00
493	587373.5	4154272	0.000622	0.001475	0.00E+00	1.26E-03	1.49E-03	0.00E+00	1.01E-04	3.36E-04	0.00E+00	5.68E-05	2.10E-04	0.00E+00
494	587379.1	4154264	0.000653	0.00155	0.00E+00	1.33E-03	1.57E-03	0.00E+00	1.06E-04	3.53E-04	0.00E+00	5.96E-05	2.21E-04	0.00E+00
495	587384.7	4154256	0.000686	0.001627	0.00E+00	1.39E-03	1.65E-03	0.00E+00	1.11E-04	3.70E-04	0.00E+00	6.26E-05	2.32E-04	0.00E+00
496	587390.4	4154248	0.000719	0.001705	0.00E+00	1.46E-03	1.73E-03	0.00E+00	1.16E-04	3.88E-04	0.00E+00	6.56E-05	2.43E-04	0.00E+00
497	587396	4154239	0.000751	0.001783	0.00E+00	1.53E-03	1.81E-03	0.00E+00	1.22E-04	4.06E-04	0.00E+00	6.86E-05	2.54E-04	0.00E+00
498	587401.6	4154231	0.000784	0.001861	0.00E+00	1.59E-03	1.88E-03	0.00E+00	1.27E-04	4.23E-04	0.00E+00	7.16E-05	2.65E-04	0.00E+00
499	587407.2	4154223	0.000815	0.001935	0.00E+00	1.66E-03	1.96E-03	0.00E+00	1.32E-04	4.40E-04	0.00E+00	7.45E-05	2.76E-04	0.00E+00
500	587412.8	4154215	0.000845	0.002006	0.00E+00	1.72E-03	2.03E-03	0.00E+00	1.37E-04	4.56E-04	0.00E+00	7.72E-05	2.86E-04	0.00E+00
501	587424	4154199	0.000897	0.002129	0.00E+00	1.82E-03	2.15E-03	0.00E+00	1.45E-04	4.84E-04	0.00E+00	8.19E-05	3.03E-04	0.00E+00
502	587429.6	4154191	0.000918	0.002179	0.00E+00	1.87E-03	2.21E-03	0.00E+00	1.49E-04	4.96E-04	0.00E+00	8.38E-05	3.10E-04	0.00E+00
503	587435.2	4154183	0.000936	0.00222	0.00E+00	1.90E-03	2.25E-03	0.00E+00	1.52E-04	5.05E-04	0.00E+00	8.54E-05	3.16E-04	0.00E+00
504	587356.4	4154305	0.000524	0.001243	0.00E+00	1.06E-03	1.26E-03	0.00E+00	8.48E-05	2.83E-04	0.00E+00	4.78E-05	1.77E-04	0.00E+00
505	587354.5	4154296	0.000529	0.001254	0.00E+00	1.07E-03	1.27E-03	0.00E+00	8.56E-05	2.85E-04	0.00E+00	4.83E-05	1.79E-04	0.00E+00
506	587358.1	4154278	0.00056	0.001328	0.00E+00	1.14E-03	1.34E-03	0.00E+00	9.06E-05	3.02E-04	0.00E+00	5.11E-05	1.89E-04	0.00E+00
507	587363.6	4154270	0.000587	0.001394	0.00E+00	1.19E-03	1.41E-03	0.00E+00	9.51E-05	3.17E-04	0.00E+00	5.36E-05	1.99E-04	0.00E+00
508	587369.2	4154262	0.000616	0.001462	0.00E+00	1.25E-03	1.48E-03	0.00E+00	9.98E-05	3.33E-04	0.00E+00	5.63E-05	2.08E-04	0.00E+00
509	587374.7	4154254	0.000646	0.001532	0.00E+00	1.31E-03	1.55E-03	0.00E+00	1.05E-04	3.49E-04	0.00E+00	5.90E-05	2.18E-04	0.00E+00
510	587380.3	4154246	0.000676	0.001604	0.00E+00	1.37E-03	1.62E-03	0.00E+00	1.09E-04	3.65E-04	0.00E+00	6.17E-05	2.28E-04	0.00E+00
511	587385.8	4154238	0.000706	0.001676	0.00E+00	1.44E-03	1.70E-03	0.00E+00	1.14E-04	3.81E-04	0.00E+00	6.45E-05	2.39E-04	0.00E+00
512	587391.4	4154230	0.000736	0.001747	0.00E+00	1.50E-03	1.77E-03	0.00E+00	1.19E-04	3.97E-04	0.00E+00	6.72E-05	2.49E-04	0.00E+00
513	587396.9	4154222	0.000766	0.001817	0.00E+00	1.56E-03	1.84E-03	0.00E+00	1.24E-04	4.13E-04	0.00E+00	6.99E-05	2.59E-04	0.00E+00
514	587413.5	4154198	0.000843	0.002001	0.00E+00	1.71E-03	2.03E-03	0.00E+00	1.37E-04	4.55E-04	0.00E+00	7.70E-05	2.85E-04	0.00E+00
515	587419.1	4154190	0.000864	0.002051	0.00E+00	1.76E-03	2.08E-03	0.00E+00	1.40E-04	4.66E-04	0.00E+00	7.89E-05	2.92E-04	0.00E+00
516	587424.6	4154182	0.000882	0.002092	0.00E+00	1.79E-03	2.12E-03	0.00E+00	1.43E-04	4.76E-04	0.00E+00	8.05E-05	2.98E-04	0.00E+00
517	587430.2	4154174	0.000896	0.002127	0.00E+00	1.82E-03	2.15E-03	0.00E+00	1.45E-04	4.84E-04	0.00E+00	8.18E-05	3.03E-04	0.00E+00
518	587348.5	4154313	0.000493	0.001169	0.00E+00	1.00E-03	1.18E-03	0.00E+00	7.98E-05	2.66E-04	0.00E+00	4.50E-05	1.67E-04	0.00E+00
519	587346.6	4154303	0.000497	0.00118	0.00E+00	1.01E-03	1.19E-03	0.00E+00	8.06E-05	2.69E-04	0.00E+00	4.54E-05	1.68E-04	0.00E+00
520	587344.7	4154294	0.000502	0.001191	0.00E+00	1.02E-03	1.21E-03	0.00E+00	8.13E-05	2.71E-04	0.00E+00	4.58E-05	1.70E-04	0.00E+00
521	587348.2	4154276	0.000531	0.001259	0.00E+00	1.08E-03	1.27E-03	0.00E+00	8.59E-05	2.86E-04	0.00E+00	4.84E-05	1.79E-04	0.00E+00
522	587353.7	4154268	0.000556	0.00132	0.00E+00	1.13E-03	1.34E-03	0.00E+00	9.00E-05	3.00E-04	0.00E+00	5.08E-05	1.88E-04	0.00E+00
523	587359.2	4154260	0.000582	0.001382	0.00E+00	1.18E-03	1.40E-03	0.00E+00	9.43E-05	3.14E-04	0.00E+00	5.32E-05	1.97E-04	0.00E+00
524	587364.7	4154252	0.00061	0.001447	0.00E+00	1.24E-03	1.46E-03	0.00E+00	9.87E-05	3.29E-04	0.00E+00	5.57E-05	2.06E-04	0.00E+00
525	587370.2	4154244	0.000637	0.001512	0.00E+00	1.30E-03	1.53E-03	0.00E+00	1.03E-04	3.44E-04	0.00E+00	5.82E-05	2.15E-04	0.00E+00
526	587375.7	4154236	0.000665	0.001579	0.00E+00	1.35E-03	1.60E-03	0.00E+00	1.08E-04	3.59E-04	0.00E+00	6.07E-05	2.25E-04	0.00E+00
527	587381.2	4154228	0.000693	0.001644	0.00E+00	1.41E-03	1.66E-03	0.00E+00	1.12E-04	3.74E-04	0.00E+00	6.33E-05	2.34E-04	0.00E+00
528	587386.7	4154220	0.00072	0.001709	0.00E+00	1.46E-03	1.73E-03	0.00E+00	1.17E-04	3.89E-04	0.00E+00	6.58E-05	2.43E-04	0.00E+00
529	587403.2	4154197	0.000794	0.001884	0.00E+00	1.61E-03	1.91E-03	0.00E+00	1.29E-04	4.29E-04	0.00E+00	7.25E-05	2.68E-04	0.00E+00
530	587408.7	4154189	0.000814	0.001933	0.00E+00	1.66E-03	1.96E-03	0.00E+00	1.32E-04	4.40E-04	0.00E+00	7.44E-05	2.75E-04	0.00E+00
531	587414.1	4154181	0.000832	0.001975	0.00E+00	1.69E-03	2.00E-03	0.00E+00	1.35E-04	4.49E-04	0.00E+00	7.60E-05	2.81E-04	0.00E+00
532	587419.6	4154173	0.000847	0.00201	0.00E+00	1.72E-03	2.03E-03	0.00E+00	1.37E-04	4.57E-04	0.00E+00	7.73E-05	2.86E-04	0.00E+00
533	587441.6	4154141	0.000869	0.002061	0.00E+00	1.77E-03	2.09E-03	0.00E+00	1.41E-04	4.69E-04	0.00E+00	7.93E-05	2.94E-04	0.00E+00
534	587447.1	4154133	0.000863	0.002048	0.00E+00	1.75E-03	2.07E-03	0.00E+00	1.40E-04	4.66E-04	0.00E+00	7.88E-05	2.92E-04	0.00E+00
535	587452.6	4154125	0.000854	0.002026	0.00E+00	1.74E-03	2.05E-03	0.00E+00	1.38E-04	4.61E-04	0.00E+00	7.79E-05	2.89E-04	0.00E+00
536	587338.6	4154310	0.000469	0.001112	0.00E+00	9.53E-04	1.13E-03	0.00E+00	7.59E-05	2.53E-04	0.00E+00	4.28E-05	1.58E-04	0.00E+00
537	587336.7	4154301	0.000473	0.001123	0.00E+00	9.62E-04	1.14E-03	0.00E+00	7.66E-05	2.55E-04	0.00E+00	4.32E-05	1.60E-04	0.00E+00
538	587334.8	4154292	0.000478	0.001133	0.00E+00	9.71E-04	1.15E-03	0.00E+00	7.73E-05	2.58E-04	0.00E+00	4.36E-05	1.61E-04	0.00E+00
539	587338.4	4154274	0.000504	0.001196	0.00E+00	1.02E-03	1.21E-03	0.00E+00	8.16E-05	2.72E-04	0.00E+00	4.60E-05	1.70E-04	0.00E+00
540	587343.8	4154266	0.000527	0.001251	0.00E+00	1.07E-03	1.27E-03	0.00E+00	8.54E-05	2.85E-04	0.00E+00	4.81E-05	1.78E-04	0.00E+00
541	587349.3	4154258	0.000551	0.001309	0.00E+00	1.12E-03	1.32E-03	0.00E+00	8.93E-05	2.98E-04	0.00E+00	5.04E-05	1.86E-04	0.00E+00
542	587354.7	4154251	0.000576	0.001368	0.00E+00	1.17E-03	1.38E-03	0.00E+00	9.34E-05	3.11E-04	0.00E+00	5.26E-05	1.95E-04	0.00E+00
543	587360.2	4154243	0.000602	0.001429	0.00E+00	1.22E-03	1.45E-03	0.00E+00	9.75E-05	3.25E-04	0.00E+00	5.50E-05	2.03E-04	0.00E+00

544	587365.6	4154235	0.000628	0.00149	0.00E+00	1.28E-03	1.51E-03	0.00E+00	1.02E-04	3.39E-04	0.00E+00	5.73E-05	2.12E-04	0.00E+00
545	587371.1	4154227	0.000653	0.001551	0.00E+00	1.33E-03	1.57E-03	0.00E+00	1.06E-04	3.53E-04	0.00E+00	5.97E-05	2.21E-04	0.00E+00
546	587376.5	4154219	0.000679	0.001611	0.00E+00	1.38E-03	1.63E-03	0.00E+00	1.10E-04	3.66E-04	0.00E+00	6.20E-05	2.29E-04	0.00E+00
547	587392.8	4154195	0.000749	0.001777	0.00E+00	1.52E-03	1.80E-03	0.00E+00	1.21E-04	4.04E-04	0.00E+00	6.84E-05	2.53E-04	0.00E+00
548	587398.3	4154187	0.000769	0.001824	0.00E+00	1.56E-03	1.85E-03	0.00E+00	1.24E-04	4.15E-04	0.00E+00	7.02E-05	2.60E-04	0.00E+00
549	587403.7	4154179	0.000786	0.001866	0.00E+00	1.60E-03	1.89E-03	0.00E+00	1.27E-04	4.24E-04	0.00E+00	7.18E-05	2.66E-04	0.00E+00
550	587409.2	4154172	0.000801	0.001902	0.00E+00	1.63E-03	1.93E-03	0.00E+00	1.30E-04	4.33E-04	0.00E+00	7.32E-05	2.71E-04	0.00E+00
551	587431	4154140	0.000831	0.001972	0.00E+00	1.69E-03	2.00E-03	0.00E+00	1.35E-04	4.49E-04	0.00E+00	7.59E-05	2.81E-04	0.00E+00
552	587436.4	4154132	0.000828	0.001965	0.00E+00	1.68E-03	1.99E-03	0.00E+00	1.34E-04	4.47E-04	0.00E+00	7.56E-05	2.80E-04	0.00E+00
553	587441.8	4154124	0.000821	0.001949	0.00E+00	1.67E-03	1.97E-03	0.00E+00	1.33E-04	4.43E-04	0.00E+00	7.50E-05	2.78E-04	0.00E+00
554	587447.3	4154116	0.000812	0.001927	0.00E+00	1.65E-03	1.95E-03	0.00E+00	1.32E-04	4.38E-04	0.00E+00	7.41E-05	2.74E-04	0.00E+00
555	587331	4154319	0.000442	0.001048	0.00E+00	8.98E-04	1.06E-03	0.00E+00	7.15E-05	2.38E-04	0.00E+00	4.03E-05	1.49E-04	0.00E+00
556	587329	4154309	0.000446	0.001059	0.00E+00	9.07E-04	1.07E-03	0.00E+00	7.22E-05	2.41E-04	0.00E+00	4.07E-05	1.51E-04	0.00E+00
557	587327.1	4154300	0.00045	0.001069	0.00E+00	9.16E-04	1.08E-03	0.00E+00	7.30E-05	2.43E-04	0.00E+00	4.11E-05	1.52E-04	0.00E+00
558	587325.1	4154290	0.000455	0.001079	0.00E+00	9.24E-04	1.09E-03	0.00E+00	7.36E-05	2.45E-04	0.00E+00	4.15E-05	1.54E-04	0.00E+00
559	587328.8	4154272	0.00048	0.00114	0.00E+00	9.76E-04	1.15E-03	0.00E+00	7.78E-05	2.59E-04	0.00E+00	4.39E-05	1.62E-04	0.00E+00
560	587334.4	4154264	0.000503	0.001193	0.00E+00	1.02E-03	1.21E-03	0.00E+00	8.14E-05	2.71E-04	0.00E+00	4.59E-05	1.70E-04	0.00E+00
561	587340.1	4154256	0.000526	0.001249	0.00E+00	1.07E-03	1.26E-03	0.00E+00	8.52E-05	2.84E-04	0.00E+00	4.81E-05	1.78E-04	0.00E+00
562	587345.7	4154247	0.00055	0.001306	0.00E+00	1.12E-03	1.32E-03	0.00E+00	8.91E-05	2.97E-04	0.00E+00	5.03E-05	1.86E-04	0.00E+00
563	587351.4	4154239	0.000575	0.001365	0.00E+00	1.17E-03	1.38E-03	0.00E+00	9.31E-05	3.10E-04	0.00E+00	5.25E-05	1.94E-04	0.00E+00
564	587357	4154231	0.0006	0.001424	0.00E+00	1.22E-03	1.44E-03	0.00E+00	9.72E-05	3.24E-04	0.00E+00	5.48E-05	2.03E-04	0.00E+00
565	587390.9	4154182	0.000736	0.001747	0.00E+00	1.50E-03	1.77E-03	0.00E+00	1.19E-04	3.97E-04	0.00E+00	6.72E-05	2.49E-04	0.00E+00
566	587396.6	4154174	0.000753	0.001787	0.00E+00	1.53E-03	1.81E-03	0.00E+00	1.22E-04	4.07E-04	0.00E+00	6.88E-05	2.55E-04	0.00E+00
567	587419.1	4154141	0.000793	0.001881	0.00E+00	1.61E-03	1.90E-03	0.00E+00	1.28E-04	4.28E-04	0.00E+00	7.24E-05	2.68E-04	0.00E+00
568	587424.8	4154133	0.000794	0.001884	0.00E+00	1.61E-03	1.91E-03	0.00E+00	1.29E-04	4.28E-04	0.00E+00	7.25E-05	2.68E-04	0.00E+00
569	587430.4	4154125	0.00079	0.001875	0.00E+00	1.61E-03	1.90E-03	0.00E+00	1.28E-04	4.26E-04	0.00E+00	7.21E-05	2.67E-04	0.00E+00
570	587436.1	4154116	0.000783	0.001858	0.00E+00	1.59E-03	1.88E-03	0.00E+00	1.27E-04	4.23E-04	0.00E+00	7.15E-05	2.65E-04	0.00E+00
571	587441.7	4154108	0.000775	0.001838	0.00E+00	1.57E-03	1.86E-03	0.00E+00	1.25E-04	4.18E-04	0.00E+00	7.07E-05	2.62E-04	0.00E+00
572	587323.1	4154326	0.000417	0.000991	0.00E+00	8.49E-04	1.00E-03	0.00E+00	6.76E-05	2.25E-04	0.00E+00	3.81E-05	1.41E-04	0.00E+00
573	587321.1	4154317	0.000422	0.001001	0.00E+00	8.57E-04	1.01E-03	0.00E+00	6.83E-05	2.28E-04	0.00E+00	3.85E-05	1.43E-04	0.00E+00
574	587319.2	4154307	0.000426	0.00101	0.00E+00	8.65E-04	1.02E-03	0.00E+00	6.89E-05	2.30E-04	0.00E+00	3.89E-05	1.44E-04	0.00E+00
575	587317.2	4154297	0.00043	0.00102	0.00E+00	8.74E-04	1.03E-03	0.00E+00	6.96E-05	2.32E-04	0.00E+00	3.92E-05	1.45E-04	0.00E+00
576	587315.3	4154288	0.000434	0.00103	0.00E+00	8.82E-04	1.04E-03	0.00E+00	7.03E-05	2.34E-04	0.00E+00	3.96E-05	1.47E-04	0.00E+00
577	587318.9	4154270	0.000458	0.001086	0.00E+00	9.30E-04	1.10E-03	0.00E+00	7.41E-05	2.47E-04	0.00E+00	4.18E-05	1.55E-04	0.00E+00
578	587324.5	4154262	0.000478	0.001135	0.00E+00	9.72E-04	1.15E-03	0.00E+00	7.75E-05	2.58E-04	0.00E+00	4.37E-05	1.62E-04	0.00E+00
579	587330.1	4154254	0.0005	0.001186	0.00E+00	1.02E-03	1.20E-03	0.00E+00	8.10E-05	2.70E-04	0.00E+00	4.56E-05	1.69E-04	0.00E+00
580	587335.7	4154246	0.000522	0.001239	0.00E+00	1.06E-03	1.25E-03	0.00E+00	8.46E-05	2.82E-04	0.00E+00	4.77E-05	1.77E-04	0.00E+00
581	587408.4	4154140	0.000756	0.001794	0.00E+00	1.54E-03	1.82E-03	0.00E+00	1.22E-04	4.08E-04	0.00E+00	6.90E-05	2.56E-04	0.00E+00
582	587414	4154132	0.000759	0.001802	0.00E+00	1.54E-03	1.82E-03	0.00E+00	1.23E-04	4.10E-04	0.00E+00	6.93E-05	2.57E-04	0.00E+00
583	587419.6	4154124	0.000758	0.001799	0.00E+00	1.54E-03	1.82E-03	0.00E+00	1.23E-04	4.09E-04	0.00E+00	6.92E-05	2.56E-04	0.00E+00
584	587425.2	4154116	0.000753	0.001788	0.00E+00	1.53E-03	1.81E-03	0.00E+00	1.22E-04	4.07E-04	0.00E+00	6.88E-05	2.55E-04	0.00E+00
585	587430.8	4154108	0.000747	0.001773	0.00E+00	1.52E-03	1.79E-03	0.00E+00	1.21E-04	4.03E-04	0.00E+00	6.82E-05	2.53E-04	0.00E+00
586	587436.4	4154100	0.000739	0.001753	0.00E+00	1.50E-03	1.77E-03	0.00E+00	1.20E-04	3.99E-04	0.00E+00	6.74E-05	2.50E-04	0.00E+00
587	587313.2	4154324	0.000399	0.000947	0.00E+00	8.11E-04	9.59E-04	0.00E+00	6.46E-05	2.15E-04	0.00E+00	3.64E-05	1.35E-04	0.00E+00
588	587311.3	4154314	0.000403	0.000956	0.00E+00	8.19E-04	9.68E-04	0.00E+00	6.53E-05	2.18E-04	0.00E+00	3.68E-05	1.36E-04	0.00E+00
589	587309.4	4154305	0.000407	0.000965	0.00E+00	8.27E-04	9.77E-04	0.00E+00	6.59E-05	2.20E-04	0.00E+00	3.71E-05	1.38E-04	0.00E+00
590	587307.4	4154295	0.000411	0.000974	0.00E+00	8.35E-04	9.86E-04	0.00E+00	6.65E-05	2.22E-04	0.00E+00	3.75E-05	1.39E-04	0.00E+00
591	587305.5	4154286	0.000414	0.000983	0.00E+00	8.42E-04	9.95E-04	0.00E+00	6.71E-05	2.24E-04	0.00E+00	3.78E-05	1.40E-04	0.00E+00
592	587309.1	4154268	0.000436	0.001036	0.00E+00	8.87E-04	1.05E-03	0.00E+00	7.07E-05	2.36E-04	0.00E+00	3.98E-05	1.48E-04	0.00E+00
593	587314.6	4154260	0.000456	0.001081	0.00E+00	9.26E-04	1.09E-03	0.00E+00	7.38E-05	2.46E-04	0.00E+00	4.16E-05	1.54E-04	0.00E+00
594	587347.9	4154212	0.000582	0.00138	0.00E+00	1.18E-03	1.40E-03	0.00E+00	9.42E-05	3.14E-04	0.00E+00	5.31E-05	1.97E-04	0.00E+00
595	587353.5	4154204	0.000603	0.00143	0.00E+00	1.22E-03	1.45E-03	0.00E+00	9.76E-05	3.25E-04	0.00E+00	5.50E-05	2.04E-04	0.00E+00
596	587359	4154196	0.000623	0.001478	0.00E+00	1.27E-03	1.50E-03	0.00E+00	1.01E-04	3.36E-04	0.00E+00	5.69E-05	2.11E-04	0.00E+00
597	587364.6	4154188	0.000642	0.001524	0.00E+00	1.31E-03	1.54E-03	0.00E+00	1.04E-04	3.47E-04	0.00E+00	5.86E-05	2.17E-04	0.00E+00
598	587370.1	4154180	0.00066	0.001567	0.00E+00	1.34E-03	1.59E-03	0.00E+00	1.07E-04	3.56E-04	0.00E+00	6.03E-05	2.23E-04	0.00E+00
599	587397.8	4154139	0.000721	0.001711	0.00E+00	1.47E-03	1.73E-03	0.00E+00	1.17E-04	3.89E-04	0.00E+00	6.58E-05	2.44E-04	0.00E+00
600	587403.4	4154131	0.000726	0.001722	0.00E+00	1.48E-03	1.74E-03	0.00E+00	1.18E-04	3.92E-04	0.00E+00	6.63E-05	2.45E-04	0.00E+00
601	587408.9	4154123	0.000727	0.001725	0.00E+00	1.48E-03	1.75E-03	0.00E+00	1.18E-04	3.92E-04	0.00E+00	6.64E-05	2.46E-04	0.00E+00
602	587414.5	4154115	0.000724	0.001719	0.00E+00	1.47E-03	1.74E-03	0.00E+00	1.17E-04	3.91E-04	0.00E+00	6.61E-05	2.45E-04	0.00E+00
603	587420	4154107	0.00072	0.001709	0.00E+00	1.46E-03	1.73E-03	0.00E+00	1.17E-04	3.89E-04	0.00E+00	6.57E-05	2.43E-04	0.00E+00
604	587425.6	4154099	0.000713	0.001693	0.00E+00	1.45E-03	1.71E-03	0.00E+00	1.16E-04	3.85E-04	0.00E+00	6.51E-05	2.41E-04	0.00E+00
605	587431.1	4154091	0.000705	0.001672	0.00E+00	1.43E-03	1.69E-03	0.00E+00	1.14E-04	3.80E-04	0.00E+00	6.43E-05	2.38E-04	0.00E+00
606	587305.3	4154331	0.000378	0.000898	0.00E+00	7.69E-04	9.09E-04	0.00E+00	6.13E-05	2.04E-04	0.00E+00	3.45E-05	1.28E-04	0.00E+00
607	587303.3	4154322	0.000382	0.000906	0.00E+00	7.76E-04	9.17E-04	0.00E+00	6.18E-05	2.06E-04	0.00E+00	3.49E-05	1.29E-04	0.00E+00
608	587301.4	4154312	0.000386	0.000915	0.00E+00	7.84E-04	9.26E-04	0.00E+00	6.24E-05	2.08E-04	0.00E+00	3.52E-05	1.30E-04	0.00E+00
609	587299.5	4154303	0.000389	0.000924	0.00E+00	7.91E-04	9.35E-04	0.00E+00	6.30E-05	2.10E-04	0.00E+00	3.55E-05	1.32E-04	0.00E+00
610	587297.6	4154293	0.000393	0.000932	0.00E+00	7.98E-04	9.44E-04	0.00E+00	6.36E-05	2.12E-04	0.00E+00	3.59E-05	1.33E-04	0.00E+00
611	587295.7	4154284	0.000396	0.000941	0.00E+00	8.06E-04	9.52E-04	0.00E+00	6.42E-05	2.14E-04	0.00E+00	3.62E-05	1.34E-04	0.00E+00
612	587321.3	4154234	0.000492	0.001167	0.00E+00	1.00E-03	1.18E-03	0.00E+00	7.96E-05	2.65E-04	0.00E+00	4.49E-05	1.66E-04	0.00E+00
613	587337.8	4154210	0.000552	0.001309	0.00E+00	1.12E-03	1.33E-03	0.00E+00	8.93E-05	2.98E-04	0.00E+00	5.04E-05	1.86E-04	0.00E+00
614	587343.3	4154202	0.000571	0.001356	0.00E+00	1.16E-03	1.37E-03	0.00E+00	9.25E-05	3.08E-04	0.00E+00	5.22E-05	1.93E-04	0.00E+00
615	587348.8	4154194	0.000591	0.001402	0.00E+00	1.20E-03	1.42E-03	0.00E+00	9.56E-05	3.19E-04	0.00E+00	5.39E-05	2.00E-04	0.00E+00
616	587354.3	4154186	0.000609	0.001445	0.00E+00	1.24E-03	1.46E-03	0.00E+00	9.86E-05	3.29E-04	0.00E+00	5.56E-05	2.06E-04	0.00E+00
617	587359.8	4154178	0.000626	0.001486	0.00E+00	1.27E-03	1.50E-03	0.00E+00	1.01E-04	3.38E-04	0.00E+00	5.72E-05	2.12E-04	0.00E+00
618	587365.3	4154170	0.000642	0.001524	0.00E+00	1.31E-03	1.54E-03	0.00E+00	1.04E-04	3.47E-04	0.00E+00	5.86E-05	2.17E-04	0.00E+00
619	587398.3	4154123	0.000696	0.001653	0.00E+00	1.42E-03	1.67E-03	0.00E+00	1.13E-04	3.76E-04	0.00E+00	6.36E-05	2.35E-04	0.00E+00
620	587403.8	4154115	0.000696	0.001652	0.00E+00	1.41E-03	1.67E-03	0.00E+00	1.13E-04	3.76E-04	0.00E+00	6.36E-05	2.35E-04	0.00E+00
621	587409.3	4154107	0.000694	0.001646	0.00E+00	1.41E-03	1.67E-03	0.00E+00	1.12E-04	3.74E-04	0.00E+00	6.33E-05	2.34E-04	0.00E+00
622	587414.8	4154099	0.000689	0.001634	0.00E+00	1.40E-03	1.65E-03	0.00E+00	1.12E-04	3.72E-04	0.00E+00	6.29E-05	2.33E-04	0.00E+00
623	587420.3	4154091	0.000681	0.001617	0.00E+00	1.38E-03	1.64E-03	0.00E+00	1.10E-04	3.68E-04	0.00E+00	6.22E-05	2.30E-04	0.00E+00
624	587425.8	4154083	0.000673	0.001596	0.00E+00	1.37E-03	1.62E-03	0.00E+00	1.09E-04	3.63E-04	0.00E+00	6.14E-05	2.27E-04	0.00E+00
625	587689.9	4154487	0.001398	0.003317	0.00E+00	2.84E-03	3.36E-03	0.00E+00	2.26E-04	7.55E-04	0.00E+00	1.28E-04	4.72E-04	0.00E+00
626	587706.3	4154480	0.001589	0.00377	0.00E+00	3.23E-03	3.82E-03	0.00E+00	2.57E-04	8.58E-04	0.00E+00	1.45E-04	5.37E-04	0.00E+00
627	587714.2	4154474	0.001745	0.004141	0.00E+00	3.55E-03	4.19E-03	0.00E+00	2.83E-04	9.42E-04	0.00E+00	1.59E-04	5.90E-04	0.00E+00
628	587722	4154469	0.001919	0.004553	0.00E+00	3.90E-03	4.61E-03	0.00E+00	3.11E-04	1.04E-03	0.00E+00	1.75E-04	6.49E-04	0.00E+00
629	587729.9	4154464	0.002107	0.005001	0.00E+00	4.28E-03	5.06E-03	0.00E+00	3.41E-04	1.14E-03	0.00E+00	1.92E-04	7.12E-04	0.00E+00
630	587737.8	4154458	0.002308	0.005478	0.00E+00	4.69E-03	5.54E-03	0.00E+00	3.74E-04	1.25E-03	0.00E+00	2.11E-04	7.80E-04	0.00E+00
631	587745.7	4154453	0.002517	0.005974	0.00E+00	5.12E-03	6.05E-03	0.00E+00	4.08E-04	1.36E-03	0.00E+00	2.30E-04	8.51E-04	0.00E+00
632	587695.6	4154495	0.001241	0.002945	0.00E+00	2.52E-03	2.98E-03	0.00E+00	2.01E-04	6.70E-04	0.00E+00	1.13E-04	4.19E-04	0.00E+00
633	587678.8	4154498	0.001159	0.002751	0.00E+00	2.36E-03	2.78E-03	0.00E+00	1.88E-04	6.26E-04	0.00E+00	1.06E-04	3.92E-04	0.00E+00
634	587662	4154502	0.001077	0.002557	0.00E+00	2.19E-03	2.59E-03	0.00E+00	1.74E-04	5.82E-04	0.00E+00	9.84E-05	3.64E-04	0.00E+00

635	587711.9	4154488	0.001394	0.003309	0.00E+00	2.83E-03	3.35E-03	0.00E+00	2.26E-04	7.53E-04	0.00E+00	1.27E-04	4.71E-04	0.00E+00
636	587719.7	4154483	0.00152	0.003607	0.00E+00	3.09E-03	3.65E-03	0.00E+00	2.46E-04	8.20E-04	0.00E+00	1.39E-04	5.14E-04	0.00E+00
637	587727.6	4154477	0.001658	0.003934	0.00E+00	3.37E-03	3.98E-03	0.00E+00	2.68E-04	8.95E-04	0.00E+00	1.51E-04	5.60E-04	0.00E+00
638	587735.5	4154472	0.001808	0.00429	0.00E+00	3.67E-03	4.34E-03	0.00E+00	2.93E-04	9.76E-04	0.00E+00	1.65E-04	6.11E-04	0.00E+00
639	587743.4	4154467	0.001968	0.004669	0.00E+00	4.00E-03	4.73E-03	0.00E+00	3.19E-04	1.06E-03	0.00E+00	1.80E-04	6.65E-04	0.00E+00
640	587751.3	4154461	0.002135	0.005066	0.00E+00	4.34E-03	5.13E-03	0.00E+00	3.46E-04	1.15E-03	0.00E+00	1.95E-04	7.22E-04	0.00E+00
641	587759.1	4154456	0.002306	0.005472	0.00E+00	4.69E-03	5.54E-03	0.00E+00	3.73E-04	1.24E-03	0.00E+00	2.11E-04	7.79E-04	0.00E+00
642	587701.3	4154503	0.00111	0.002634	0.00E+00	2.26E-03	2.67E-03	0.00E+00	1.80E-04	5.99E-04	0.00E+00	1.01E-04	3.75E-04	0.00E+00
643	587684.7	4154507	0.001044	0.002477	0.00E+00	2.12E-03	2.51E-03	0.00E+00	1.69E-04	5.63E-04	0.00E+00	9.53E-05	3.53E-04	0.00E+00
644	587668.1	4154510	0.000977	0.002319	0.00E+00	1.99E-03	2.35E-03	0.00E+00	1.58E-04	5.28E-04	0.00E+00	8.92E-05	3.30E-04	0.00E+00
645	587651.5	4154513	0.000913	0.002166	0.00E+00	1.86E-03	2.19E-03	0.00E+00	1.48E-04	4.93E-04	0.00E+00	8.33E-05	3.09E-04	0.00E+00
646	587717.5	4154496	0.001235	0.002932	0.00E+00	2.51E-03	2.97E-03	0.00E+00	2.00E-04	6.67E-04	0.00E+00	1.13E-04	4.18E-04	0.00E+00
647	587725.3	4154491	0.001338	0.003174	0.00E+00	2.72E-03	3.21E-03	0.00E+00	2.17E-04	7.22E-04	0.00E+00	1.22E-04	4.52E-04	0.00E+00
648	587733.2	4154486	0.001449	0.003439	0.00E+00	2.95E-03	3.48E-03	0.00E+00	2.35E-04	7.82E-04	0.00E+00	1.32E-04	4.90E-04	0.00E+00
649	587741.1	4154480	0.00157	0.003727	0.00E+00	3.19E-03	3.77E-03	0.00E+00	2.54E-04	8.48E-04	0.00E+00	1.43E-04	5.31E-04	0.00E+00
650	587749	4154475	0.0017	0.004033	0.00E+00	3.45E-03	4.08E-03	0.00E+00	2.75E-04	9.17E-04	0.00E+00	1.55E-04	5.75E-04	0.00E+00
651	587756.8	4154470	0.001835	0.004355	0.00E+00	3.73E-03	4.41E-03	0.00E+00	2.97E-04	9.91E-04	0.00E+00	1.68E-04	6.20E-04	0.00E+00
652	587764.7	4154464	0.001975	0.004686	0.00E+00	4.01E-03	4.74E-03	0.00E+00	3.20E-04	1.07E-03	0.00E+00	1.80E-04	6.68E-04	0.00E+00
653	587706	4154512	0.000996	0.002364	0.00E+00	2.02E-03	2.39E-03	0.00E+00	1.61E-04	5.38E-04	0.00E+00	9.09E-05	3.37E-04	0.00E+00
654	587696.9	4154513	0.000966	0.002293	0.00E+00	1.96E-03	2.32E-03	0.00E+00	1.56E-04	5.22E-04	0.00E+00	8.82E-05	3.27E-04	0.00E+00
655	587687.8	4154515	0.000935	0.00222	0.00E+00	1.90E-03	2.25E-03	0.00E+00	1.52E-04	5.05E-04	0.00E+00	8.54E-05	3.16E-04	0.00E+00
656	587678.7	4154517	0.000905	0.002148	0.00E+00	1.84E-03	2.17E-03	0.00E+00	1.47E-04	4.89E-04	0.00E+00	8.26E-05	3.06E-04	0.00E+00
657	587669.6	4154519	0.000875	0.002076	0.00E+00	1.78E-03	2.10E-03	0.00E+00	1.42E-04	4.72E-04	0.00E+00	7.99E-05	2.96E-04	0.00E+00
658	587660.4	4154521	0.000845	0.002005	0.00E+00	1.72E-03	2.03E-03	0.00E+00	1.37E-04	4.56E-04	0.00E+00	7.71E-05	2.86E-04	0.00E+00
659	587651.3	4154523	0.000816	0.001936	0.00E+00	1.66E-03	1.96E-03	0.00E+00	1.32E-04	4.40E-04	0.00E+00	7.45E-05	2.76E-04	0.00E+00
660	587642.2	4154525	0.000788	0.00187	0.00E+00	1.60E-03	1.89E-03	0.00E+00	1.28E-04	4.25E-04	0.00E+00	7.19E-05	2.66E-04	0.00E+00
661	587754.6	4154483	0.001485	0.003523	0.00E+00	3.02E-03	3.57E-03	0.00E+00	2.40E-04	8.01E-04	0.00E+00	1.36E-04	5.02E-04	0.00E+00
662	587762.4	4154478	0.001596	0.003787	0.00E+00	3.24E-03	3.83E-03	0.00E+00	2.58E-04	8.62E-04	0.00E+00	1.46E-04	5.39E-04	0.00E+00
663	587770.3	4154473	0.001711	0.00406	0.00E+00	3.48E-03	4.11E-03	0.00E+00	2.77E-04	9.24E-04	0.00E+00	1.56E-04	5.78E-04	0.00E+00
664	587684.9	4154525	0.000827	0.001963	0.00E+00	1.68E-03	1.99E-03	0.00E+00	1.34E-04	4.47E-04	0.00E+00	7.55E-05	2.80E-04	0.00E+00
665	587676	4154527	0.000802	0.001903	0.00E+00	1.63E-03	1.93E-03	0.00E+00	1.30E-04	4.33E-04	0.00E+00	7.32E-05	2.71E-04	0.00E+00
666	587667	4154529	0.000777	0.001844	0.00E+00	1.58E-03	1.87E-03	0.00E+00	1.26E-04	4.19E-04	0.00E+00	7.09E-05	2.63E-04	0.00E+00
667	587658.1	4154531	0.000752	0.001786	0.00E+00	1.53E-03	1.81E-03	0.00E+00	1.22E-04	4.06E-04	0.00E+00	6.87E-05	2.54E-04	0.00E+00
668	587649.1	4154533	0.000729	0.00173	0.00E+00	1.48E-03	1.75E-03	0.00E+00	1.18E-04	3.93E-04	0.00E+00	6.65E-05	2.46E-04	0.00E+00
669	587640.1	4154535	0.000706	0.001676	0.00E+00	1.44E-03	1.70E-03	0.00E+00	1.14E-04	3.81E-04	0.00E+00	6.45E-05	2.39E-04	0.00E+00
670	587623.5	4154531	0.000713	0.001692	0.00E+00	1.45E-03	1.71E-03	0.00E+00	1.15E-04	3.85E-04	0.00E+00	6.51E-05	2.41E-04	0.00E+00
671	587760.1	4154491	0.001309	0.003107	0.00E+00	2.66E-03	3.14E-03	0.00E+00	2.12E-04	7.07E-04	0.00E+00	1.20E-04	4.43E-04	0.00E+00
672	587768	4154486	0.001401	0.003326	0.00E+00	2.85E-03	3.37E-03	0.00E+00	2.27E-04	7.57E-04	0.00E+00	1.28E-04	4.74E-04	0.00E+00
673	587775.9	4154481	0.001497	0.003553	0.00E+00	3.04E-03	3.60E-03	0.00E+00	2.42E-04	8.08E-04	0.00E+00	1.37E-04	5.06E-04	0.00E+00
674	587717.5	4154528	0.000821	0.001949	0.00E+00	1.67E-03	1.97E-03	0.00E+00	1.33E-04	4.43E-04	0.00E+00	7.50E-05	2.78E-04	0.00E+00
675	587647	4154543	0.000656	0.001556	0.00E+00	1.33E-03	1.58E-03	0.00E+00	1.06E-04	3.54E-04	0.00E+00	5.99E-05	2.22E-04	0.00E+00
676	587638.1	4154544	0.000637	0.001512	0.00E+00	1.29E-03	1.53E-03	0.00E+00	1.03E-04	3.44E-04	0.00E+00	5.82E-05	2.15E-04	0.00E+00
677	587621.8	4154541	0.000643	0.001527	0.00E+00	1.31E-03	1.55E-03	0.00E+00	1.04E-04	3.47E-04	0.00E+00	5.87E-05	2.17E-04	0.00E+00
678	587614.2	4154536	0.000668	0.001586	0.00E+00	1.36E-03	1.61E-03	0.00E+00	1.08E-04	3.61E-04	0.00E+00	6.10E-05	2.26E-04	0.00E+00
679	587734.2	4154521	0.000897	0.002129	0.00E+00	1.82E-03	2.16E-03	0.00E+00	1.45E-04	4.84E-04	0.00E+00	8.19E-05	3.03E-04	0.00E+00
680	587742.1	4154516	0.000957	0.002272	0.00E+00	1.95E-03	2.30E-03	0.00E+00	1.55E-04	5.17E-04	0.00E+00	8.74E-05	3.24E-04	0.00E+00
681	587765.7	4154500	0.001164	0.002763	0.00E+00	2.37E-03	2.80E-03	0.00E+00	1.89E-04	6.28E-04	0.00E+00	1.06E-04	3.94E-04	0.00E+00
682	587773.6	4154494	0.001241	0.002946	0.00E+00	2.52E-03	2.98E-03	0.00E+00	2.01E-04	6.70E-04	0.00E+00	1.13E-04	4.20E-04	0.00E+00
683	587781.5	4154489	0.001322	0.003137	0.00E+00	2.69E-03	3.18E-03	0.00E+00	2.14E-04	7.14E-04	0.00E+00	1.21E-04	4.47E-04	0.00E+00
684	587723.2	4154536	0.000751	0.001783	0.00E+00	1.53E-03	1.80E-03	0.00E+00	1.22E-04	4.06E-04	0.00E+00	6.86E-05	2.54E-04	0.00E+00
685	587705.8	4154540	0.000716	0.001699	0.00E+00	1.46E-03	1.72E-03	0.00E+00	1.16E-04	3.87E-04	0.00E+00	6.54E-05	2.42E-04	0.00E+00
686	587636.1	4154554	0.000578	0.001371	0.00E+00	1.17E-03	1.39E-03	0.00E+00	9.36E-05	3.12E-04	0.00E+00	5.28E-05	1.95E-04	0.00E+00
687	587620	4154551	0.000584	0.001386	0.00E+00	1.19E-03	1.40E-03	0.00E+00	9.46E-05	3.15E-04	0.00E+00	5.33E-05	1.97E-04	0.00E+00
688	587605.1	4154541	0.000628	0.00149	0.00E+00	1.28E-03	1.51E-03	0.00E+00	1.02E-04	3.39E-04	0.00E+00	5.73E-05	2.12E-04	0.00E+00
689	587739.8	4154529	0.000816	0.001936	0.00E+00	1.66E-03	1.96E-03	0.00E+00	1.32E-04	4.40E-04	0.00E+00	7.45E-05	2.76E-04	0.00E+00
690	587747.7	4154524	0.000867	0.002058	0.00E+00	1.76E-03	2.08E-03	0.00E+00	1.40E-04	4.68E-04	0.00E+00	7.92E-05	2.93E-04	0.00E+00
691	587771.3	4154508	0.001043	0.002474	0.00E+00	2.12E-03	2.50E-03	0.00E+00	1.69E-04	5.63E-04	0.00E+00	9.52E-05	3.52E-04	0.00E+00
692	587779.2	4154503	0.001108	0.002629	0.00E+00	2.25E-03	2.66E-03	0.00E+00	1.79E-04	5.98E-04	0.00E+00	1.01E-04	3.75E-04	0.00E+00
693	587787.1	4154497	0.001176	0.002791	0.00E+00	2.39E-03	2.82E-03	0.00E+00	1.90E-04	6.35E-04	0.00E+00	1.07E-04	3.98E-04	0.00E+00
694	587728.9	4154545	0.00069	0.001637	0.00E+00	1.40E-03	1.66E-03	0.00E+00	1.12E-04	3.72E-04	0.00E+00	6.30E-05	2.33E-04	0.00E+00
695	587711.7	4154548	0.00066	0.001566	0.00E+00	1.34E-03	1.59E-03	0.00E+00	1.07E-04	3.56E-04	0.00E+00	6.03E-05	2.23E-04	0.00E+00
696	587694.5	4154552	0.000629	0.001493	0.00E+00	1.28E-03	1.51E-03	0.00E+00	1.02E-04	3.40E-04	0.00E+00	5.74E-05	2.13E-04	0.00E+00
697	587677.2	4154555	0.000598	0.00142	0.00E+00	1.22E-03	1.44E-03	0.00E+00	9.69E-05	3.23E-04	0.00E+00	5.46E-05	2.02E-04	0.00E+00
698	587618.2	4154561	0.000532	0.001264	0.00E+00	1.08E-03	1.28E-03	0.00E+00	8.62E-05	2.87E-04	0.00E+00	4.86E-05	1.80E-04	0.00E+00
699	587603.5	4154551	0.000571	0.001354	0.00E+00	1.16E-03	1.37E-03	0.00E+00	9.24E-05	3.08E-04	0.00E+00	5.21E-05	1.93E-04	0.00E+00
700	587745.4	4154538	0.000746	0.00177	0.00E+00	1.52E-03	1.79E-03	0.00E+00	1.21E-04	4.03E-04	0.00E+00	6.81E-05	2.52E-04	0.00E+00
701	587753.3	4154532	0.00079	0.001874	0.00E+00	1.61E-03	1.90E-03	0.00E+00	1.28E-04	4.26E-04	0.00E+00	7.21E-05	2.67E-04	0.00E+00
702	587776.9	4154516	0.00094	0.00223	0.00E+00	1.91E-03	2.26E-03	0.00E+00	1.52E-04	5.07E-04	0.00E+00	8.58E-05	3.18E-04	0.00E+00
703	587784.8	4154511	0.000995	0.002362	0.00E+00	2.02E-03	2.39E-03	0.00E+00	1.61E-04	5.37E-04	0.00E+00	9.09E-05	3.36E-04	0.00E+00
704	587792.7	4154506	0.001054	0.0025	0.00E+00	2.14E-03	2.53E-03	0.00E+00	1.71E-04	5.69E-04	0.00E+00	9.62E-05	3.56E-04	0.00E+00
705	587733.9	4154553	0.000635	0.001507	0.00E+00	1.29E-03	1.53E-03	0.00E+00	1.03E-04	3.43E-04	0.00E+00	5.80E-05	2.15E-04	0.00E+00
706	587724.7	4154555	0.000621	0.001474	0.00E+00	1.26E-03	1.49E-03	0.00E+00	1.01E-04	3.35E-04	0.00E+00	5.67E-05	2.10E-04	0.00E+00
707	587715.6	4154557	0.000607	0.001441	0.00E+00	1.23E-03	1.46E-03	0.00E+00	9.83E-05	3.28E-04	0.00E+00	5.54E-05	2.05E-04	0.00E+00
708	587706.4	4154559	0.000593	0.001407	0.00E+00	1.20E-03	1.42E-03	0.00E+00	9.60E-05	3.20E-04	0.00E+00	5.41E-05	2.00E-04	0.00E+00
709	587678.8	4154564	0.00055	0.001304	0.00E+00	1.12E-03	1.32E-03	0.00E+00	8.90E-05	2.97E-04	0.00E+00	5.02E-05	1.86E-04	0.00E+00
710	587669.6	4154566	0.000535	0.001271	0.00E+00	1.09E-03	1.29E-03	0.00E+00	8.67E-05	2.89E-04	0.00E+00	4.89E-05	1.81E-04	0.00E+00
711	587660.4	4154568	0.000522	0.001238	0.00E+00	1.06E-03	1.25E-03	0.00E+00	8.45E-05	2.82E-04	0.00E+00	4.76E-05	1.76E-04	0.00E+00
712	587651.2	4154570	0.000508	0.001207	0.00E+00	1.03E-03	1.22E-03	0.00E+00	8.23E-05	2.74E-04	0.00E+00	4.64E-05	1.72E-04	0.00E+00
713	587608	4154565	0.000507	0.001203	0.00E+00	1.03E-03	1.22E-03	0.00E+00	8.21E-05	2.74E-04	0.00E+00	4.63E-05	1.71E-04	0.00E+00
714	587600.1	4154560	0.000525	0.001247	0.00E+00	1.07E-03	1.26E-03	0.00E+00	8.51E-05	2.84E-04	0.00E+00	4.80E-05	1.78E-04	0.00E+00
715	587592.3	4154555	0.000544	0.001291	0.00E+00	1.11E-03	1.31E-03	0.00E+00	8.81E-05	2.94E-04	0.00E+00	4.97E-05	1.84E-04	0.00E+00
716	587743.1	4154551	0.000648	0.001538	0.00E+00	1.32E-03	1.56E-03	0.00E+00	1.05E-04	3.50E-04	0.00E+00	5.92E-05	2.19E-04	0.00E+00
717	587751	4154546	0.000684	0.001624	0.00E+00	1.39E-03	1.64E-03	0.00E+00	1.11E-04	3.69E-04	0.00E+00	6.25E-05	2.31E-04	0.00E+00
718	587758.9	4154541	0.000723	0.001715	0.00E+00	1.47E-03	1.74E-03	0.00E+00	1.17E-04	3.90E-04	0.00E+00	6.60E-05	2.44E-04	0.00E+00
719	587782.5	4154525	0.000852	0.002021	0.00E+00	1.73E-03	2.05E-03	0.00E+00	1.38E-04	4.60E-04	0.00E+00	7.78E-05	2.88E-04	0.00E+00
720	587790.4	4154519	0.0009	0.002135	0.00E+00	1.83E-03	2.16E-03	0.00E+00	1.46E-04	4.86E-04	0.00E+00	8.21E-05	3.04E-04	0.00E+00
721	587798.3	4154514	0.000949	0.002253	0.00E+00	1.93E-03	2.28E-03	0.00E+00	1.54E-04	5.13E-04	0.00E+00	8.67E-05	3.21E-04	0.00E+00
722	587739.6	4154561	0.000587	0.001394	0.00E+00	1.19E-03	1.41E-03	0.00E+00	9.51E-05	3.17E-04	0.00E+00	5.36E-05	1.99E-04	0.00E+00
723	587730.6	4154563	0.000576	0.001366	0.00E+00	1.17E-03	1.38E-03	0.00E+00	9.32E-05	3.11E-04	0.00E+00	5.25E-05	1.95E-04	0.00E+00
724	587721.5	4154565	0.000563	0.001337	0.00E+00	1.15E-03	1.35E-03	0.00E+00	9.13E-05	3.04E-04	0.00E+00	5.14E-05	1.90E-04	0.00E+00
725	587712.4	4154567	0.000551	0.001308	0.00E+00	1.12E-03	1.32E-03	0.00E+00	8.93E-05	2.98E-04	0.00E+00	5.03E-05	1.86E-04	0.00E+00

726	587703.4	4154569	0.000539	0.001278	0.00E+00	1.09E-03	1.29E-03	0.00E+00	8.72E-05	2.91E-04	0.00E+00	4.92E-05	1.82E-04	0.00E+00
727	587685.3	4154572	0.000513	0.001219	0.00E+00	1.04E-03	1.23E-03	0.00E+00	8.32E-05	2.77E-04	0.00E+00	4.69E-05	1.74E-04	0.00E+00
728	587676.2	4154574	0.000501	0.001189	0.00E+00	1.02E-03	1.20E-03	0.00E+00	8.12E-05	2.71E-04	0.00E+00	4.58E-05	1.69E-04	0.00E+00
729	587667.1	4154576	0.000489	0.00116	0.00E+00	9.94E-04	1.17E-03	0.00E+00	7.92E-05	2.64E-04	0.00E+00	4.46E-05	1.65E-04	0.00E+00
730	587658.1	4154578	0.000477	0.001132	0.00E+00	9.70E-04	1.15E-03	0.00E+00	7.73E-05	2.58E-04	0.00E+00	4.36E-05	1.61E-04	0.00E+00
731	587649	4154580	0.000465	0.001104	0.00E+00	9.46E-04	1.12E-03	0.00E+00	7.54E-05	2.51E-04	0.00E+00	4.25E-05	1.57E-04	0.00E+00
732	587639.9	4154582	0.000454	0.001078	0.00E+00	9.23E-04	1.09E-03	0.00E+00	7.35E-05	2.45E-04	0.00E+00	4.15E-05	1.53E-04	0.00E+00
733	587630.9	4154584	0.000444	0.001053	0.00E+00	9.02E-04	1.07E-03	0.00E+00	7.19E-05	2.40E-04	0.00E+00	4.05E-05	1.50E-04	0.00E+00
734	587598.6	4154570	0.000482	0.001143	0.00E+00	9.79E-04	1.16E-03	0.00E+00	7.80E-05	2.60E-04	0.00E+00	4.40E-05	1.63E-04	0.00E+00
735	587590.8	4154565	0.000498	0.001182	0.00E+00	1.01E-03	1.20E-03	0.00E+00	8.07E-05	2.69E-04	0.00E+00	4.55E-05	1.68E-04	0.00E+00
736	587583.1	4154560	0.000515	0.001222	0.00E+00	1.05E-03	1.24E-03	0.00E+00	8.34E-05	2.78E-04	0.00E+00	4.70E-05	1.74E-04	0.00E+00
737	587748.7	4154559	0.000599	0.001421	0.00E+00	1.22E-03	1.44E-03	0.00E+00	9.70E-05	3.23E-04	0.00E+00	5.47E-05	2.02E-04	0.00E+00
738	587756.6	4154554	0.00063	0.001496	0.00E+00	1.28E-03	1.51E-03	0.00E+00	1.02E-04	3.40E-04	0.00E+00	5.75E-05	2.13E-04	0.00E+00
739	587764.5	4154549	0.000664	0.001575	0.00E+00	1.35E-03	1.59E-03	0.00E+00	1.07E-04	3.58E-04	0.00E+00	6.06E-05	2.24E-04	0.00E+00
740	587788.1	4154533	0.000776	0.001841	0.00E+00	1.58E-03	1.86E-03	0.00E+00	1.26E-04	4.19E-04	0.00E+00	7.08E-05	2.62E-04	0.00E+00
741	587796	4154528	0.000817	0.001939	0.00E+00	1.66E-03	1.96E-03	0.00E+00	1.32E-04	4.41E-04	0.00E+00	7.46E-05	2.76E-04	0.00E+00
742	587803.8	4154522	0.00086	0.002042	0.00E+00	1.75E-03	2.07E-03	0.00E+00	1.39E-04	4.64E-04	0.00E+00	7.85E-05	2.91E-04	0.00E+00
743	587745.3	4154570	0.000545	0.001293	0.00E+00	1.11E-03	1.31E-03	0.00E+00	8.82E-05	2.94E-04	0.00E+00	4.98E-05	1.84E-04	0.00E+00
744	587736.4	4154571	0.000535	0.001269	0.00E+00	1.09E-03	1.28E-03	0.00E+00	8.66E-05	2.89E-04	0.00E+00	4.88E-05	1.81E-04	0.00E+00
745	587727.4	4154573	0.000524	0.001244	0.00E+00	1.07E-03	1.26E-03	0.00E+00	8.49E-05	2.83E-04	0.00E+00	4.79E-05	1.77E-04	0.00E+00
746	587718.5	4154575	0.000514	0.001219	0.00E+00	1.04E-03	1.23E-03	0.00E+00	8.32E-05	2.77E-04	0.00E+00	4.69E-05	1.74E-04	0.00E+00
747	587709.5	4154577	0.000503	0.001193	0.00E+00	1.02E-03	1.21E-03	0.00E+00	8.14E-05	2.71E-04	0.00E+00	4.59E-05	1.70E-04	0.00E+00
748	587691.6	4154581	0.000481	0.001141	0.00E+00	9.77E-04	1.15E-03	0.00E+00	7.79E-05	2.60E-04	0.00E+00	4.39E-05	1.63E-04	0.00E+00
749	587682.6	4154582	0.00047	0.001115	0.00E+00	9.55E-04	1.13E-03	0.00E+00	7.61E-05	2.54E-04	0.00E+00	4.29E-05	1.59E-04	0.00E+00
750	587673.7	4154584	0.000459	0.001089	0.00E+00	9.33E-04	1.10E-03	0.00E+00	7.43E-05	2.48E-04	0.00E+00	4.19E-05	1.55E-04	0.00E+00
751	587664.7	4154586	0.000448	0.001064	0.00E+00	9.11E-04	1.08E-03	0.00E+00	7.26E-05	2.42E-04	0.00E+00	4.09E-05	1.52E-04	0.00E+00
752	587655.8	4154588	0.000438	0.001039	0.00E+00	8.90E-04	1.05E-03	0.00E+00	7.09E-05	2.36E-04	0.00E+00	4.00E-05	1.48E-04	0.00E+00
753	587646.8	4154590	0.000428	0.001015	0.00E+00	8.69E-04	1.03E-03	0.00E+00	6.93E-05	2.31E-04	0.00E+00	3.91E-05	1.45E-04	0.00E+00
754	587637.8	4154592	0.000418	0.000993	0.00E+00	8.50E-04	1.01E-03	0.00E+00	6.78E-05	2.26E-04	0.00E+00	3.82E-05	1.41E-04	0.00E+00
755	587628.9	4154593	0.000409	0.000972	0.00E+00	8.32E-04	9.84E-04	0.00E+00	6.63E-05	2.21E-04	0.00E+00	3.74E-05	1.38E-04	0.00E+00
756	587589.3	4154575	0.000458	0.001087	0.00E+00	9.31E-04	1.10E-03	0.00E+00	7.42E-05	2.47E-04	0.00E+00	4.18E-05	1.55E-04	0.00E+00
757	587581.7	4154570	0.000473	0.001122	0.00E+00	9.61E-04	1.14E-03	0.00E+00	7.66E-05	2.55E-04	0.00E+00	4.32E-05	1.60E-04	0.00E+00
758	587574	4154565	0.000488	0.001158	0.00E+00	9.91E-04	1.17E-03	0.00E+00	7.90E-05	2.63E-04	0.00E+00	4.45E-05	1.65E-04	0.00E+00
759	587754.3	4154568	0.000555	0.001317	0.00E+00	1.13E-03	1.33E-03	0.00E+00	8.98E-05	2.99E-04	0.00E+00	5.07E-05	1.88E-04	0.00E+00
760	587762.2	4154562	0.000583	0.001383	0.00E+00	1.18E-03	1.40E-03	0.00E+00	9.44E-05	3.15E-04	0.00E+00	5.32E-05	1.97E-04	0.00E+00
761	587770	4154557	0.000612	0.001452	0.00E+00	1.24E-03	1.47E-03	0.00E+00	9.91E-05	3.30E-04	0.00E+00	5.59E-05	2.07E-04	0.00E+00
762	587785.8	4154547	0.000676	0.001603	0.00E+00	1.37E-03	1.62E-03	0.00E+00	1.09E-04	3.65E-04	0.00E+00	6.17E-05	2.28E-04	0.00E+00
763	587793.7	4154541	0.00071	0.001685	0.00E+00	1.44E-03	1.71E-03	0.00E+00	1.15E-04	3.83E-04	0.00E+00	6.48E-05	2.40E-04	0.00E+00
764	587801.6	4154536	0.000746	0.00177	0.00E+00	1.52E-03	1.79E-03	0.00E+00	1.21E-04	4.03E-04	0.00E+00	6.81E-05	2.52E-04	0.00E+00
765	587809.4	4154531	0.000783	0.001859	0.00E+00	1.59E-03	1.88E-03	0.00E+00	1.27E-04	4.23E-04	0.00E+00	7.15E-05	2.65E-04	0.00E+00
766	587751	4154578	0.000507	0.001203	0.00E+00	1.03E-03	1.22E-03	0.00E+00	8.21E-05	2.74E-04	0.00E+00	4.63E-05	1.71E-04	0.00E+00
767	587742.2	4154580	0.000498	0.001182	0.00E+00	1.01E-03	1.20E-03	0.00E+00	8.07E-05	2.69E-04	0.00E+00	4.55E-05	1.68E-04	0.00E+00
768	587724.4	4154583	0.00048	0.001139	0.00E+00	9.75E-04	1.15E-03	0.00E+00	7.77E-05	2.59E-04	0.00E+00	4.38E-05	1.62E-04	0.00E+00
769	587715.6	4154585	0.00047	0.001116	0.00E+00	9.56E-04	1.13E-03	0.00E+00	7.62E-05	2.54E-04	0.00E+00	4.29E-05	1.59E-04	0.00E+00
770	587697.8	4154589	0.000451	0.00107	0.00E+00	9.17E-04	1.08E-03	0.00E+00	7.30E-05	2.43E-04	0.00E+00	4.12E-05	1.52E-04	0.00E+00
771	587689	4154591	0.000441	0.001047	0.00E+00	8.97E-04	1.06E-03	0.00E+00	7.15E-05	2.38E-04	0.00E+00	4.03E-05	1.49E-04	0.00E+00
772	587680.1	4154592	0.000432	0.001025	0.00E+00	8.77E-04	1.04E-03	0.00E+00	6.99E-05	2.33E-04	0.00E+00	3.94E-05	1.46E-04	0.00E+00
773	587671.2	4154594	0.000422	0.001001	0.00E+00	8.57E-04	1.01E-03	0.00E+00	6.83E-05	2.28E-04	0.00E+00	3.85E-05	1.43E-04	0.00E+00
774	587662.4	4154596	0.000412	0.000978	0.00E+00	8.38E-04	9.90E-04	0.00E+00	6.67E-05	2.22E-04	0.00E+00	3.76E-05	1.39E-04	0.00E+00
775	587653.5	4154598	0.000403	0.000957	0.00E+00	8.20E-04	9.69E-04	0.00E+00	6.53E-05	2.18E-04	0.00E+00	3.68E-05	1.36E-04	0.00E+00
776	587644.7	4154600	0.000395	0.000937	0.00E+00	8.03E-04	9.49E-04	0.00E+00	6.40E-05	2.13E-04	0.00E+00	3.61E-05	1.34E-04	0.00E+00
777	587610.5	4154600	0.000384	0.000911	0.00E+00	7.80E-04	9.22E-04	0.00E+00	6.22E-05	2.07E-04	0.00E+00	3.50E-05	1.30E-04	0.00E+00
778	587587.8	4154585	0.000423	0.001003	0.00E+00	8.59E-04	1.02E-03	0.00E+00	6.84E-05	2.28E-04	0.00E+00	3.86E-05	1.43E-04	0.00E+00
779	587580.2	4154580	0.000436	0.001035	0.00E+00	8.86E-04	1.05E-03	0.00E+00	7.06E-05	2.35E-04	0.00E+00	3.98E-05	1.47E-04	0.00E+00
780	587565.1	4154570	0.000463	0.001098	0.00E+00	9.40E-04	1.11E-03	0.00E+00	7.49E-05	2.50E-04	0.00E+00	4.22E-05	1.56E-04	0.00E+00
781	587759.9	4154576	0.000516	0.001224	0.00E+00	1.05E-03	1.24E-03	0.00E+00	8.35E-05	2.78E-04	0.00E+00	4.71E-05	1.74E-04	0.00E+00
782	587767.8	4154571	0.00054	0.001282	0.00E+00	1.10E-03	1.30E-03	0.00E+00	8.75E-05	2.92E-04	0.00E+00	4.93E-05	1.83E-04	0.00E+00
783	587775.6	4154565	0.000566	0.001344	0.00E+00	1.15E-03	1.36E-03	0.00E+00	9.17E-05	3.06E-04	0.00E+00	5.17E-05	1.91E-04	0.00E+00
784	587791.4	4154555	0.000622	0.001476	0.00E+00	1.26E-03	1.49E-03	0.00E+00	1.01E-04	3.36E-04	0.00E+00	5.68E-05	2.10E-04	0.00E+00
785	587799.3	4154550	0.000652	0.001548	0.00E+00	1.33E-03	1.57E-03	0.00E+00	1.06E-04	3.52E-04	0.00E+00	5.95E-05	2.20E-04	0.00E+00
786	587807.1	4154544	0.000684	0.001622	0.00E+00	1.39E-03	1.64E-03	0.00E+00	1.11E-04	3.69E-04	0.00E+00	6.24E-05	2.31E-04	0.00E+00
787	587815	4154539	0.000716	0.0017	0.00E+00	1.46E-03	1.72E-03	0.00E+00	1.16E-04	3.87E-04	0.00E+00	6.54E-05	2.42E-04	0.00E+00
788	587756.7	4154586	0.000473	0.001123	0.00E+00	9.62E-04	1.14E-03	0.00E+00	7.66E-05	2.55E-04	0.00E+00	4.32E-05	1.60E-04	0.00E+00
789	587739.1	4154590	0.000457	0.001086	0.00E+00	9.30E-04	1.10E-03	0.00E+00	7.41E-05	2.47E-04	0.00E+00	4.18E-05	1.55E-04	0.00E+00
790	587721.6	4154593	0.000441	0.001046	0.00E+00	8.96E-04	1.06E-03	0.00E+00	7.14E-05	2.38E-04	0.00E+00	4.02E-05	1.49E-04	0.00E+00
791	587695.2	4154599	0.000415	0.000985	0.00E+00	8.44E-04	9.97E-04	0.00E+00	6.72E-05	2.24E-04	0.00E+00	3.79E-05	1.40E-04	0.00E+00
792	587677.7	4154602	0.000398	0.000944	0.00E+00	8.09E-04	9.56E-04	0.00E+00	6.44E-05	2.15E-04	0.00E+00	3.63E-05	1.35E-04	0.00E+00
793	587660.1	4154606	0.000381	0.000904	0.00E+00	7.74E-04	9.15E-04	0.00E+00	6.17E-05	2.06E-04	0.00E+00	3.48E-05	1.29E-04	0.00E+00
794	587642.5	4154610	0.000366	0.000869	0.00E+00	7.44E-04	8.79E-04	0.00E+00	5.93E-05	1.98E-04	0.00E+00	3.34E-05	1.24E-04	0.00E+00
795	587608.7	4154610	0.000357	0.000846	0.00E+00	7.25E-04	8.57E-04	0.00E+00	5.78E-05	1.93E-04	0.00E+00	3.26E-05	1.21E-04	0.00E+00
796	587571.2	4154586	0.000415	0.000986	0.00E+00	8.44E-04	9.98E-04	0.00E+00	6.73E-05	2.24E-04	0.00E+00	3.79E-05	1.40E-04	0.00E+00
797	587563.7	4154581	0.000427	0.001014	0.00E+00	8.69E-04	1.03E-03	0.00E+00	6.92E-05	2.31E-04	0.00E+00	3.90E-05	1.44E-04	0.00E+00
798	587773.3	4154579	0.000502	0.001192	0.00E+00	1.02E-03	1.21E-03	0.00E+00	8.14E-05	2.71E-04	0.00E+00	4.59E-05	1.70E-04	0.00E+00
799	587781.2	4154574	0.000525	0.001247	0.00E+00	1.07E-03	1.26E-03	0.00E+00	8.51E-05	2.84E-04	0.00E+00	4.80E-05	1.78E-04	0.00E+00
800	587797	4154563	0.000575	0.001364	0.00E+00	1.17E-03	1.38E-03	0.00E+00	9.31E-05	3.10E-04	0.00E+00	5.25E-05	1.94E-04	0.00E+00
801	587804.9	4154558	0.000601	0.001427	0.00E+00	1.22E-03	1.44E-03	0.00E+00	9.74E-05	3.25E-04	0.00E+00	5.49E-05	2.03E-04	0.00E+00
802	587812.7	4154552	0.000629	0.001493	0.00E+00	1.28E-03	1.51E-03	0.00E+00	1.02E-04	3.40E-04	0.00E+00	5.74E-05	2.13E-04	0.00E+00
803	587820.6	4154547	0.000658	0.001562	0.00E+00	1.34E-03	1.58E-03	0.00E+00	1.07E-04	3.55E-04	0.00E+00	6.01E-05	2.22E-04	0.00E+00
804	587761.8	4154595	0.000442	0.001049	0.00E+00	8.98E-04	1.06E-03	0.00E+00	7.16E-05	2.39E-04	0.00E+00	4.04E-05	1.49E-04	0.00E+00
805	587752.6	4154596	0.000435	0.001032	0.00E+00	8.84E-04	1.04E-03	0.00E+00	7.04E-05	2.35E-04	0.00E+00	3.97E-05	1.47E-04	0.00E+00
806	587743.4	4154598	0.000427	0.001014	0.00E+00	8.69E-04	1.03E-03	0.00E+00	6.92E-05	2.31E-04	0.00E+00	3.90E-05	1.44E-04	0.00E+00
807	587734.2	4154600	0.00042	0.000996	0.00E+00	8.53E-04	1.01E-03	0.00E+00	6.80E-05	2.27E-04	0.00E+00	3.83E-05	1.42E-04	0.00E+00
808	587725	4154602	0.000412	0.000977	0.00E+00	8.37E-04	9.89E-04	0.00E+00	6.67E-05	2.22E-04	0.00E+00	3.76E-05	1.39E-04	0.00E+00
809	587706.5	4154606	0.000396	0.000939	0.00E+00	8.04E-04	9.51E-04	0.00E+00	6.41E-05	2.14E-04	0.00E+00	3.61E-05	1.34E-04	0.00E+00
810	587697.3	4154608	0.000388	0.00092	0.00E+00	7.88E-04	9.31E-04	0.00E+00	6.28E-05	2.09E-04	0.00E+00	3.54E-05	1.31E-04	0.00E+00
811	587688.1	4154610	0.00038	0.000901	0.00E+00	7.71E-04	9.12E-04	0.00E+00	6.15E-05	2.05E-04	0.00E+00	3.47E-05	1.28E-04	0.00E+00
812	587678.9	4154612	0.000371	0.000881	0.00E+00	7.54E-04	8.92E-04	0.00E+00	6.01E-05	2.00E-04	0.00E+00	3.39E-05	1.25E-04	0.00E+00
813	587669.6	4154613	0.000363	0.000862	0.00E+00	7.38E-04	8.72E-04	0.00E+00	5.88E-05	1.96E-04	0.00E+00	3.32E-05	1.23E-04	0.00E+00
814	587660.4	4154615	0.000355	0.000844	0.00E+00	7.23E-04	8.54E-04	0.00E+00	5.76E-05	1.92E-04	0.00E+00	3.25E-05	1.20E-04	0.00E+00
815	587651.2	4154617	0.000348	0.000827	0.00E+00	7.08E-04	8.37E-04	0.00E+00	5.64E-05	1.88E-04	0.00E+00	3.18E-05	1.18E-04	0.00E+00
816	587642	4154619	0.000341	0.00081	0.00E+00	6.94E-04	8.20E-04	0.00E+00	5.53E-05	1.84E-04	0.00E+00	3.12E-05	1.15E-04	0.00E+00

817	587623.5	4154623	0.000329	0.00078	0.00E+00	6.68E-04	7.89E-04	0.00E+00	5.32E-05	1.77E-04	0.00E+00	3.00E-05	1.11E-04	0.00E+00
818	587606.4	4154620	0.000333	0.00079	0.00E+00	6.77E-04	8.00E-04	0.00E+00	5.39E-05	1.80E-04	0.00E+00	3.04E-05	1.13E-04	0.00E+00
819	587598.6	4154614	0.000343	0.000815	0.00E+00	6.98E-04	8.25E-04	0.00E+00	5.56E-05	1.85E-04	0.00E+00	3.14E-05	1.16E-04	0.00E+00
820	587590.7	4154609	0.000354	0.000841	0.00E+00	7.20E-04	8.51E-04	0.00E+00	5.74E-05	1.91E-04	0.00E+00	3.24E-05	1.20E-04	0.00E+00
821	587567.1	4154594	0.000389	0.000923	0.00E+00	7.91E-04	9.34E-04	0.00E+00	6.30E-05	2.10E-04	0.00E+00	3.55E-05	1.31E-04	0.00E+00
822	587559.2	4154589	0.000401	0.000951	0.00E+00	8.14E-04	9.62E-04	0.00E+00	6.49E-05	2.16E-04	0.00E+00	3.66E-05	1.35E-04	0.00E+00
823	587551.3	4154584	0.000412	0.000978	0.00E+00	8.37E-04	9.90E-04	0.00E+00	6.67E-05	2.22E-04	0.00E+00	3.76E-05	1.39E-04	0.00E+00
824	587543.4	4154578	0.000423	0.001004	0.00E+00	8.60E-04	1.02E-03	0.00E+00	6.85E-05	2.28E-04	0.00E+00	3.86E-05	1.43E-04	0.00E+00
825	587771.1	4154593	0.000449	0.001065	0.00E+00	9.12E-04	1.08E-03	0.00E+00	7.27E-05	2.42E-04	0.00E+00	4.10E-05	1.52E-04	0.00E+00
826	587778.9	4154587	0.000469	0.001112	0.00E+00	9.52E-04	1.13E-03	0.00E+00	7.59E-05	2.53E-04	0.00E+00	4.28E-05	1.58E-04	0.00E+00
827	587786.8	4154582	0.000489	0.001161	0.00E+00	9.94E-04	1.17E-03	0.00E+00	7.92E-05	2.64E-04	0.00E+00	4.46E-05	1.65E-04	0.00E+00
828	587802.6	4154571	0.000533	0.001265	0.00E+00	1.08E-03	1.28E-03	0.00E+00	8.63E-05	2.88E-04	0.00E+00	4.87E-05	1.80E-04	0.00E+00
829	587810.4	4154566	0.000556	0.00132	0.00E+00	1.13E-03	1.34E-03	0.00E+00	9.01E-05	3.00E-04	0.00E+00	5.08E-05	1.88E-04	0.00E+00
830	587818.3	4154561	0.000581	0.001379	0.00E+00	1.18E-03	1.40E-03	0.00E+00	9.41E-05	3.14E-04	0.00E+00	5.30E-05	1.96E-04	0.00E+00
831	587826.2	4154555	0.000606	0.001439	0.00E+00	1.23E-03	1.46E-03	0.00E+00	9.82E-05	3.27E-04	0.00E+00	5.54E-05	2.05E-04	0.00E+00
832	587767.5	4154603	0.000414	0.000983	0.00E+00	8.42E-04	9.95E-04	0.00E+00	6.71E-05	2.24E-04	0.00E+00	3.78E-05	1.40E-04	0.00E+00
833	587758.4	4154605	0.000408	0.000968	0.00E+00	8.29E-04	9.80E-04	0.00E+00	6.61E-05	2.20E-04	0.00E+00	3.73E-05	1.38E-04	0.00E+00
834	587749.3	4154607	0.000401	0.000953	0.00E+00	8.16E-04	9.64E-04	0.00E+00	6.50E-05	2.17E-04	0.00E+00	3.67E-05	1.36E-04	0.00E+00
835	587740.2	4154608	0.000395	0.000937	0.00E+00	8.02E-04	9.48E-04	0.00E+00	6.39E-05	2.13E-04	0.00E+00	3.60E-05	1.33E-04	0.00E+00
836	587731	4154610	0.000388	0.00092	0.00E+00	7.88E-04	9.32E-04	0.00E+00	6.28E-05	2.09E-04	0.00E+00	3.54E-05	1.31E-04	0.00E+00
837	587712.8	4154614	0.000374	0.000886	0.00E+00	7.59E-04	8.97E-04	0.00E+00	6.05E-05	2.02E-04	0.00E+00	3.41E-05	1.26E-04	0.00E+00
838	587703.7	4154616	0.000366	0.000869	0.00E+00	7.45E-04	8.80E-04	0.00E+00	5.93E-05	1.98E-04	0.00E+00	3.34E-05	1.24E-04	0.00E+00
839	587694.5	4154618	0.000359	0.000851	0.00E+00	7.29E-04	8.62E-04	0.00E+00	5.81E-05	1.94E-04	0.00E+00	3.27E-05	1.21E-04	0.00E+00
840	587685.4	4154620	0.000351	0.000834	0.00E+00	7.14E-04	8.44E-04	0.00E+00	5.69E-05	1.90E-04	0.00E+00	3.21E-05	1.19E-04	0.00E+00
841	587676.3	4154622	0.000344	0.000817	0.00E+00	6.99E-04	8.26E-04	0.00E+00	5.57E-05	1.86E-04	0.00E+00	3.14E-05	1.16E-04	0.00E+00
842	587667.2	4154623	0.000337	0.0008	0.00E+00	6.85E-04	8.10E-04	0.00E+00	5.46E-05	1.82E-04	0.00E+00	3.08E-05	1.14E-04	0.00E+00
843	587658	4154625	0.000331	0.000785	0.00E+00	6.72E-04	7.94E-04	0.00E+00	5.35E-05	1.78E-04	0.00E+00	3.02E-05	1.12E-04	0.00E+00
844	587648.9	4154627	0.000324	0.000769	0.00E+00	6.59E-04	7.79E-04	0.00E+00	5.25E-05	1.75E-04	0.00E+00	2.96E-05	1.10E-04	0.00E+00
845	587621.6	4154633	0.000307	0.000728	0.00E+00	6.24E-04	7.37E-04	0.00E+00	4.97E-05	1.66E-04	0.00E+00	2.80E-05	1.04E-04	0.00E+00
846	587604.6	4154630	0.000311	0.000738	0.00E+00	6.32E-04	7.47E-04	0.00E+00	5.03E-05	1.68E-04	0.00E+00	2.84E-05	1.05E-04	0.00E+00
847	587596.8	4154624	0.00032	0.00076	0.00E+00	6.51E-04	7.70E-04	0.00E+00	5.19E-05	1.73E-04	0.00E+00	2.93E-05	1.08E-04	0.00E+00
848	587589.1	4154619	0.00033	0.000784	0.00E+00	6.71E-04	7.93E-04	0.00E+00	5.35E-05	1.78E-04	0.00E+00	3.02E-05	1.12E-04	0.00E+00
849	587581.3	4154614	0.000341	0.000808	0.00E+00	6.92E-04	8.18E-04	0.00E+00	5.51E-05	1.84E-04	0.00E+00	3.11E-05	1.15E-04	0.00E+00
850	587557.9	4154599	0.000372	0.000883	0.00E+00	7.56E-04	8.94E-04	0.00E+00	6.03E-05	2.01E-04	0.00E+00	3.40E-05	1.26E-04	0.00E+00
851	587550.1	4154594	0.000382	0.000908	0.00E+00	7.77E-04	9.19E-04	0.00E+00	6.19E-05	2.06E-04	0.00E+00	3.49E-05	1.29E-04	0.00E+00
852	587542.3	4154589	0.000393	0.000932	0.00E+00	7.98E-04	9.43E-04	0.00E+00	6.36E-05	2.12E-04	0.00E+00	3.58E-05	1.33E-04	0.00E+00
853	587534.5	4154584	0.000402	0.000955	0.00E+00	8.18E-04	9.66E-04	0.00E+00	6.52E-05	2.17E-04	0.00E+00	3.67E-05	1.36E-04	0.00E+00
854	587776.6	4154601	0.00042	0.000998	0.00E+00	8.55E-04	1.01E-03	0.00E+00	6.81E-05	2.27E-04	0.00E+00	3.84E-05	1.42E-04	0.00E+00
855	587784.5	4154596	0.000438	0.001039	0.00E+00	8.90E-04	1.05E-03	0.00E+00	7.09E-05	2.36E-04	0.00E+00	4.00E-05	1.48E-04	0.00E+00
856	587792.4	4154590	0.000456	0.001083	0.00E+00	9.28E-04	1.10E-03	0.00E+00	7.39E-05	2.46E-04	0.00E+00	4.17E-05	1.54E-04	0.00E+00
857	587808.2	4154580	0.000496	0.001176	0.00E+00	1.01E-03	1.19E-03	0.00E+00	8.03E-05	2.68E-04	0.00E+00	4.52E-05	1.68E-04	0.00E+00
858	587816	4154574	0.000516	0.001226	0.00E+00	1.05E-03	1.24E-03	0.00E+00	8.36E-05	2.79E-04	0.00E+00	4.72E-05	1.75E-04	0.00E+00
859	587823.9	4154569	0.000538	0.001277	0.00E+00	1.09E-03	1.29E-03	0.00E+00	8.72E-05	2.91E-04	0.00E+00	4.91E-05	1.82E-04	0.00E+00
860	587831.8	4154564	0.000561	0.001331	0.00E+00	1.14E-03	1.35E-03	0.00E+00	9.08E-05	3.03E-04	0.00E+00	5.12E-05	1.90E-04	0.00E+00
861	587773.2	4154611	0.000389	0.000924	0.00E+00	7.91E-04	9.35E-04	0.00E+00	6.30E-05	2.10E-04	0.00E+00	3.55E-05	1.32E-04	0.00E+00
862	587764.2	4154613	0.000384	0.00091	0.00E+00	7.80E-04	9.22E-04	0.00E+00	6.21E-05	2.07E-04	0.00E+00	3.50E-05	1.30E-04	0.00E+00
863	587755.1	4154615	0.000378	0.000897	0.00E+00	7.68E-04	9.08E-04	0.00E+00	6.12E-05	2.04E-04	0.00E+00	3.45E-05	1.28E-04	0.00E+00
864	587746.1	4154617	0.000372	0.000883	0.00E+00	7.56E-04	8.93E-04	0.00E+00	6.02E-05	2.01E-04	0.00E+00	3.40E-05	1.26E-04	0.00E+00
865	587737.1	4154618	0.000366	0.000868	0.00E+00	7.43E-04	8.79E-04	0.00E+00	5.92E-05	1.97E-04	0.00E+00	3.34E-05	1.24E-04	0.00E+00
866	587710	4154624	0.000347	0.000823	0.00E+00	7.05E-04	8.33E-04	0.00E+00	5.61E-05	1.87E-04	0.00E+00	3.16E-05	1.17E-04	0.00E+00
867	587700.9	4154626	0.00034	0.000806	0.00E+00	6.90E-04	8.16E-04	0.00E+00	5.50E-05	1.83E-04	0.00E+00	3.10E-05	1.15E-04	0.00E+00
868	587691.9	4154628	0.000333	0.00079	0.00E+00	6.76E-04	7.99E-04	0.00E+00	5.39E-05	1.80E-04	0.00E+00	3.04E-05	1.12E-04	0.00E+00
869	587682.8	4154630	0.000326	0.000775	0.00E+00	6.63E-04	7.84E-04	0.00E+00	5.29E-05	1.76E-04	0.00E+00	2.98E-05	1.10E-04	0.00E+00
870	587673.8	4154631	0.00032	0.00076	0.00E+00	6.51E-04	7.69E-04	0.00E+00	5.19E-05	1.73E-04	0.00E+00	2.92E-05	1.08E-04	0.00E+00
871	587664.8	4154633	0.000314	0.000746	0.00E+00	6.39E-04	7.55E-04	0.00E+00	5.09E-05	1.70E-04	0.00E+00	2.87E-05	1.06E-04	0.00E+00
872	587655.7	4154635	0.000308	0.000732	0.00E+00	6.27E-04	7.41E-04	0.00E+00	4.99E-05	1.66E-04	0.00E+00	2.81E-05	1.04E-04	0.00E+00
873	587628.6	4154641	0.000292	0.000694	0.00E+00	5.94E-04	7.02E-04	0.00E+00	4.73E-05	1.58E-04	0.00E+00	2.67E-05	9.88E-05	0.00E+00
874	587619.6	4154643	0.000287	0.000682	0.00E+00	5.84E-04	6.90E-04	0.00E+00	4.65E-05	1.55E-04	0.00E+00	2.62E-05	9.71E-05	0.00E+00
875	587602.8	4154639	0.000291	0.000691	0.00E+00	5.92E-04	6.99E-04	0.00E+00	4.71E-05	1.57E-04	0.00E+00	2.66E-05	9.84E-05	0.00E+00
876	587595.1	4154634	0.0003	0.000711	0.00E+00	6.09E-04	7.20E-04	0.00E+00	4.85E-05	1.62E-04	0.00E+00	2.74E-05	1.01E-04	0.00E+00
877	587587.4	4154629	0.000309	0.000732	0.00E+00	6.27E-04	7.41E-04	0.00E+00	5.00E-05	1.67E-04	0.00E+00	2.82E-05	1.04E-04	0.00E+00
878	587579.7	4154624	0.000318	0.000754	0.00E+00	6.46E-04	7.63E-04	0.00E+00	5.15E-05	1.72E-04	0.00E+00	2.90E-05	1.07E-04	0.00E+00
879	587572	4154619	0.000327	0.000777	0.00E+00	6.65E-04	7.86E-04	0.00E+00	5.30E-05	1.77E-04	0.00E+00	2.99E-05	1.11E-04	0.00E+00
880	587548.8	4154604	0.000356	0.000845	0.00E+00	7.24E-04	8.55E-04	0.00E+00	5.77E-05	1.92E-04	0.00E+00	3.25E-05	1.20E-04	0.00E+00
881	587541.1	4154599	0.000365	0.000867	0.00E+00	7.43E-04	8.78E-04	0.00E+00	5.92E-05	1.97E-04	0.00E+00	3.34E-05	1.24E-04	0.00E+00
882	587533.4	4154594	0.000374	0.000889	0.00E+00	7.61E-04	8.99E-04	0.00E+00	6.06E-05	2.02E-04	0.00E+00	3.42E-05	1.27E-04	0.00E+00
883	587525.7	4154589	0.000383	0.000909	0.00E+00	7.79E-04	9.20E-04	0.00E+00	6.20E-05	2.07E-04	0.00E+00	3.50E-05	1.30E-04	0.00E+00
884	587782.2	4154609	0.000395	0.000936	0.00E+00	8.02E-04	9.48E-04	0.00E+00	6.39E-05	2.13E-04	0.00E+00	3.60E-05	1.33E-04	0.00E+00
885	587790.1	4154604	0.00041	0.000974	0.00E+00	8.34E-04	9.86E-04	0.00E+00	6.65E-05	2.22E-04	0.00E+00	3.75E-05	1.39E-04	0.00E+00
886	587798	4154599	0.000427	0.001013	0.00E+00	8.68E-04	1.03E-03	0.00E+00	6.91E-05	2.30E-04	0.00E+00	3.90E-05	1.44E-04	0.00E+00
887	587813.8	4154588	0.000462	0.001096	0.00E+00	9.39E-04	1.11E-03	0.00E+00	7.48E-05	2.49E-04	0.00E+00	4.22E-05	1.56E-04	0.00E+00
888	587821.6	4154583	0.000481	0.001141	0.00E+00	9.77E-04	1.15E-03	0.00E+00	7.79E-05	2.60E-04	0.00E+00	4.39E-05	1.62E-04	0.00E+00
889	587829.5	4154577	0.0005	0.001187	0.00E+00	1.02E-03	1.20E-03	0.00E+00	8.10E-05	2.70E-04	0.00E+00	4.57E-05	1.69E-04	0.00E+00
890	587837.4	4154572	0.00052	0.001235	0.00E+00	1.06E-03	1.25E-03	0.00E+00	8.43E-05	2.81E-04	0.00E+00	4.75E-05	1.76E-04	0.00E+00
891	587778.9	4154619	0.000366	0.000869	0.00E+00	7.45E-04	8.80E-04	0.00E+00	5.93E-05	1.98E-04	0.00E+00	3.34E-05	1.24E-04	0.00E+00
892	587769.9	4154621	0.000361	0.000858	0.00E+00	7.35E-04	8.68E-04	0.00E+00	5.85E-05	1.95E-04	0.00E+00	3.30E-05	1.22E-04	0.00E+00
893	587761	4154623	0.000356	0.000845	0.00E+00	7.24E-04	8.56E-04	0.00E+00	5.77E-05	1.92E-04	0.00E+00	3.25E-05	1.20E-04	0.00E+00
894	587752	4154625	0.000351	0.000833	0.00E+00	7.13E-04	8.43E-04	0.00E+00	5.68E-05	1.89E-04	0.00E+00	3.20E-05	1.19E-04	0.00E+00
895	587743	4154627	0.000346	0.00082	0.00E+00	7.02E-04	8.30E-04	0.00E+00	5.60E-05	1.87E-04	0.00E+00	3.15E-05	1.17E-04	0.00E+00
896	587716.2	4154632	0.000328	0.000779	0.00E+00	6.68E-04	7.89E-04	0.00E+00	5.32E-05	1.77E-04	0.00E+00	3.00E-05	1.11E-04	0.00E+00
897	587707.2	4154634	0.000322	0.000765	0.00E+00	6.55E-04	7.74E-04	0.00E+00	5.22E-05	1.74E-04	0.00E+00	2.94E-05	1.09E-04	0.00E+00
898	587698.3	4154636	0.000316	0.00075	0.00E+00	6.42E-04	7.59E-04	0.00E+00	5.12E-05	1.71E-04	0.00E+00	2.89E-05	1.07E-04	0.00E+00
899	587689.3	4154638	0.00031	0.000736	0.00E+00	6.30E-04	7.45E-04	0.00E+00	5.02E-05	1.67E-04	0.00E+00	2.83E-05	1.05E-04	0.00E+00
900	587680.3	4154640	0.000304	0.000722	0.00E+00	6.19E-04	7.31E-04	0.00E+00	4.93E-05	1.64E-04	0.00E+00	2.78E-05	1.03E-04	0.00E+00
901	587671.4	4154641	0.000299	0.000709	0.00E+00	6.07E-04	7.18E-04	0.00E+00	4.84E-05	1.61E-04	0.00E+00	2.73E-05	1.01E-04	0.00E+00
902	587662.4	4154643	0.000294	0.000697	0.00E+00	5.97E-04	7.05E-04	0.00E+00	4.75E-05	1.58E-04	0.00E+00	2.68E-05	9.92E-05	0.00E+00
903	587635.6	4154649	0.000279	0.000661	0.00E+00	5.66E-04	6.69E-04	0.00E+00	4.51E-05	1.50E-04	0.00E+00	2.54E-05	9.42E-05	0.00E+00
904	587626.6	4154651	0.000274	0.00065	0.00E+00	5.57E-04	6.58E-04	0.00E+00	4.44E-05	1.48E-04	0.00E+00	2.50E-05	9.26E-05	0.00E+00
905	587617.6	4154652	0.00027	0.00064	0.00E+00	5.48E-04	6.48E-04	0.00E+00	4.37E-05	1.46E-04	0.00E+00	2.46E-05	9.12E-05	0.00E+00
906	587601	4154649	0.000273	0.000648	0.00E+00	5.55E-04	6.56E-04	0.00E+00	4.42E-05	1.47E-04	0.00E+00	2.49E-05	9.23E-05	0.00E+00
907	587593.4	4154644	0.000281	0.000667	0.00E+00	5.71E-04	6.75E-04	0.00E+00	4.55E-05	1.52E-04	0.00E+00	2.57E-05	9.50E-05	0.00E+00

908	587585.7	4154639	0.000289	0.000686	0.00E+00	5.88E-04	6.94E-04	0.00E+00	4.68E-05	1.56E-04	0.00E+00	2.64E-05	9.77E-05	0.00E+00
909	587578.1	4154634	0.000297	0.000706	0.00E+00	6.05E-04	7.14E-04	0.00E+00	4.82E-05	1.61E-04	0.00E+00	2.72E-05	1.01E-04	0.00E+00
910	587570.4	4154629	0.000306	0.000726	0.00E+00	6.22E-04	7.35E-04	0.00E+00	4.96E-05	1.65E-04	0.00E+00	2.79E-05	1.03E-04	0.00E+00
911	587562.8	4154624	0.000315	0.000747	0.00E+00	6.40E-04	7.56E-04	0.00E+00	5.10E-05	1.70E-04	0.00E+00	2.87E-05	1.06E-04	0.00E+00
912	587539.8	4154609	0.000341	0.000809	0.00E+00	6.93E-04	8.19E-04	0.00E+00	5.52E-05	1.84E-04	0.00E+00	3.11E-05	1.15E-04	0.00E+00
913	587532.2	4154604	0.000349	0.000829	0.00E+00	7.10E-04	8.39E-04	0.00E+00	5.66E-05	1.89E-04	0.00E+00	3.19E-05	1.18E-04	0.00E+00
914	587524.5	4154599	0.000357	0.000848	0.00E+00	7.27E-04	8.59E-04	0.00E+00	5.79E-05	1.93E-04	0.00E+00	3.26E-05	1.21E-04	0.00E+00
915	587516.9	4154594	0.000365	0.000867	0.00E+00	7.42E-04	8.77E-04	0.00E+00	5.91E-05	1.97E-04	0.00E+00	3.33E-05	1.23E-04	0.00E+00
916	587787.8	4154618	0.000371	0.000881	0.00E+00	7.54E-04	8.91E-04	0.00E+00	6.01E-05	2.00E-04	0.00E+00	3.39E-05	1.25E-04	0.00E+00
917	587795.7	4154612	0.000385	0.000915	0.00E+00	7.83E-04	9.26E-04	0.00E+00	6.24E-05	2.08E-04	0.00E+00	3.52E-05	1.30E-04	0.00E+00
918	587803.6	4154607	0.0004	0.00095	0.00E+00	8.14E-04	9.61E-04	0.00E+00	6.48E-05	2.16E-04	0.00E+00	3.65E-05	1.35E-04	0.00E+00
919	587819.3	4154596	0.000432	0.001025	0.00E+00	8.78E-04	1.04E-03	0.00E+00	6.99E-05	2.33E-04	0.00E+00	3.94E-05	1.46E-04	0.00E+00
920	587827.2	4154591	0.000449	0.001065	0.00E+00	9.12E-04	1.08E-03	0.00E+00	7.27E-05	2.42E-04	0.00E+00	4.10E-05	1.52E-04	0.00E+00
921	587835.1	4154586	0.000466	0.001106	0.00E+00	9.47E-04	1.12E-03	0.00E+00	7.55E-05	2.52E-04	0.00E+00	4.26E-05	1.58E-04	0.00E+00
922	587843	4154580	0.000484	0.001149	0.00E+00	9.84E-04	1.16E-03	0.00E+00	7.84E-05	2.61E-04	0.00E+00	4.42E-05	1.64E-04	0.00E+00
923	587784.5	4154628	0.000345	0.00082	0.00E+00	7.02E-04	8.30E-04	0.00E+00	5.59E-05	1.86E-04	0.00E+00	3.15E-05	1.17E-04	0.00E+00
924	587775.6	4154629	0.000341	0.000809	0.00E+00	6.93E-04	8.19E-04	0.00E+00	5.52E-05	1.84E-04	0.00E+00	3.11E-05	1.15E-04	0.00E+00
925	587766.8	4154631	0.000336	0.000798	0.00E+00	6.84E-04	8.08E-04	0.00E+00	5.45E-05	1.82E-04	0.00E+00	3.07E-05	1.14E-04	0.00E+00
926	587757.9	4154633	0.000332	0.000787	0.00E+00	6.74E-04	7.97E-04	0.00E+00	5.37E-05	1.79E-04	0.00E+00	3.03E-05	1.12E-04	0.00E+00
927	587722.3	4154640	0.000312	0.000739	0.00E+00	6.33E-04	7.48E-04	0.00E+00	5.05E-05	1.68E-04	0.00E+00	2.84E-05	1.05E-04	0.00E+00
928	587713.4	4154642	0.000306	0.000726	0.00E+00	6.22E-04	7.35E-04	0.00E+00	4.96E-05	1.65E-04	0.00E+00	2.79E-05	1.03E-04	0.00E+00
929	587704.6	4154644	0.0003	0.000713	0.00E+00	6.11E-04	7.22E-04	0.00E+00	4.87E-05	1.62E-04	0.00E+00	2.74E-05	1.02E-04	0.00E+00
930	587695.7	4154646	0.000295	0.0007	0.00E+00	6.00E-04	7.09E-04	0.00E+00	4.78E-05	1.59E-04	0.00E+00	2.69E-05	9.97E-05	0.00E+00
931	587686.8	4154648	0.00029	0.000688	0.00E+00	5.89E-04	6.96E-04	0.00E+00	4.69E-05	1.56E-04	0.00E+00	2.65E-05	9.80E-05	0.00E+00
932	587677.9	4154650	0.000285	0.000676	0.00E+00	5.79E-04	6.84E-04	0.00E+00	4.61E-05	1.54E-04	0.00E+00	2.60E-05	9.62E-05	0.00E+00
933	587669	4154651	0.00028	0.000664	0.00E+00	5.69E-04	6.72E-04	0.00E+00	4.53E-05	1.51E-04	0.00E+00	2.55E-05	9.46E-05	0.00E+00
934	587660.1	4154653	0.000275	0.000652	0.00E+00	5.59E-04	6.60E-04	0.00E+00	4.45E-05	1.48E-04	0.00E+00	2.51E-05	9.29E-05	0.00E+00
935	587642.4	4154657	0.000266	0.000631	0.00E+00	5.40E-04	6.38E-04	0.00E+00	4.30E-05	1.43E-04	0.00E+00	2.43E-05	8.98E-05	0.00E+00
936	587633.5	4154659	0.000262	0.000621	0.00E+00	5.32E-04	6.28E-04	0.00E+00	4.24E-05	1.41E-04	0.00E+00	2.39E-05	8.84E-05	0.00E+00
937	587624.6	4154660	0.000257	0.000611	0.00E+00	5.23E-04	6.19E-04	0.00E+00	4.17E-05	1.39E-04	0.00E+00	2.35E-05	8.70E-05	0.00E+00
938	587615.7	4154662	0.000254	0.000602	0.00E+00	5.16E-04	6.09E-04	0.00E+00	4.11E-05	1.37E-04	0.00E+00	2.32E-05	8.57E-05	0.00E+00
939	587599.2	4154659	0.000257	0.000609	0.00E+00	5.22E-04	6.17E-04	0.00E+00	4.16E-05	1.39E-04	0.00E+00	2.34E-05	8.68E-05	0.00E+00
940	587584	4154649	0.000271	0.000644	0.00E+00	5.52E-04	6.52E-04	0.00E+00	4.39E-05	1.46E-04	0.00E+00	2.48E-05	9.17E-05	0.00E+00
941	587576.4	4154644	0.000279	0.000662	0.00E+00	5.67E-04	6.70E-04	0.00E+00	4.52E-05	1.51E-04	0.00E+00	2.55E-05	9.43E-05	0.00E+00
942	587568.9	4154639	0.000287	0.000681	0.00E+00	5.83E-04	6.89E-04	0.00E+00	4.64E-05	1.55E-04	0.00E+00	2.62E-05	9.69E-05	0.00E+00
943	587561.3	4154634	0.000295	0.000699	0.00E+00	5.99E-04	7.08E-04	0.00E+00	4.77E-05	1.59E-04	0.00E+00	2.69E-05	9.96E-05	0.00E+00
944	587553.7	4154629	0.000303	0.000718	0.00E+00	6.15E-04	7.27E-04	0.00E+00	4.90E-05	1.63E-04	0.00E+00	2.76E-05	1.02E-04	0.00E+00
945	587523.3	4154609	0.000334	0.000793	0.00E+00	6.79E-04	8.03E-04	0.00E+00	5.41E-05	1.80E-04	0.00E+00	3.05E-05	1.13E-04	0.00E+00
946	587515.7	4154604	0.000342	0.00081	0.00E+00	6.94E-04	8.20E-04	0.00E+00	5.53E-05	1.84E-04	0.00E+00	3.12E-05	1.15E-04	0.00E+00
947	587508.1	4154600	0.000348	0.000827	0.00E+00	7.08E-04	8.37E-04	0.00E+00	5.64E-05	1.88E-04	0.00E+00	3.18E-05	1.18E-04	0.00E+00
948	587793.4	4154626	0.00035	0.00083	0.00E+00	7.11E-04	8.40E-04	0.00E+00	5.66E-05	1.89E-04	0.00E+00	3.19E-05	1.18E-04	0.00E+00
949	587801.3	4154621	0.000363	0.000861	0.00E+00	7.37E-04	8.71E-04	0.00E+00	5.87E-05	1.96E-04	0.00E+00	3.31E-05	1.23E-04	0.00E+00
950	587809.2	4154615	0.000376	0.000893	0.00E+00	7.64E-04	9.03E-04	0.00E+00	6.09E-05	2.03E-04	0.00E+00	3.43E-05	1.27E-04	0.00E+00
951	587824.9	4154605	0.000405	0.00096	0.00E+00	8.22E-04	9.72E-04	0.00E+00	6.55E-05	2.18E-04	0.00E+00	3.69E-05	1.37E-04	0.00E+00
952	587832.8	4154599	0.00042	0.000996	0.00E+00	8.53E-04	1.01E-03	0.00E+00	6.80E-05	2.27E-04	0.00E+00	3.83E-05	1.42E-04	0.00E+00
953	587840.7	4154594	0.000435	0.001034	0.00E+00	8.85E-04	1.05E-03	0.00E+00	7.05E-05	2.35E-04	0.00E+00	3.98E-05	1.47E-04	0.00E+00
954	587848.6	4154589	0.000452	0.001072	0.00E+00	9.18E-04	1.09E-03	0.00E+00	7.32E-05	2.44E-04	0.00E+00	4.13E-05	1.53E-04	0.00E+00
955	587789.8	4154636	0.000326	0.000774	0.00E+00	6.63E-04	7.83E-04	0.00E+00	5.28E-05	1.76E-04	0.00E+00	2.98E-05	1.10E-04	0.00E+00
956	587780.5	4154638	0.000322	0.000764	0.00E+00	6.54E-04	7.73E-04	0.00E+00	5.21E-05	1.74E-04	0.00E+00	2.94E-05	1.09E-04	0.00E+00
957	587771.3	4154640	0.000318	0.000754	0.00E+00	6.46E-04	7.63E-04	0.00E+00	5.14E-05	1.71E-04	0.00E+00	2.90E-05	1.07E-04	0.00E+00
958	587762	4154642	0.000313	0.000743	0.00E+00	6.37E-04	7.52E-04	0.00E+00	5.07E-05	1.69E-04	0.00E+00	2.86E-05	1.06E-04	0.00E+00
959	587725.1	4154649	0.000294	0.000697	0.00E+00	5.97E-04	7.06E-04	0.00E+00	4.76E-05	1.59E-04	0.00E+00	2.68E-05	9.93E-05	0.00E+00
960	587715.8	4154651	0.000289	0.000685	0.00E+00	5.87E-04	6.93E-04	0.00E+00	4.67E-05	1.56E-04	0.00E+00	2.63E-05	9.75E-05	0.00E+00
961	587706.6	4154653	0.000283	0.000673	0.00E+00	5.76E-04	6.81E-04	0.00E+00	4.59E-05	1.53E-04	0.00E+00	2.59E-05	9.58E-05	0.00E+00
962	587697.3	4154655	0.000278	0.000661	0.00E+00	5.66E-04	6.69E-04	0.00E+00	4.51E-05	1.50E-04	0.00E+00	2.54E-05	9.41E-05	0.00E+00
963	587688.1	4154657	0.000273	0.000649	0.00E+00	5.56E-04	6.57E-04	0.00E+00	4.43E-05	1.48E-04	0.00E+00	2.50E-05	9.24E-05	0.00E+00
964	587678.9	4154659	0.000269	0.000637	0.00E+00	5.46E-04	6.45E-04	0.00E+00	4.35E-05	1.45E-04	0.00E+00	2.45E-05	9.08E-05	0.00E+00
965	587669.6	4154661	0.000264	0.000626	0.00E+00	5.36E-04	6.34E-04	0.00E+00	4.27E-05	1.42E-04	0.00E+00	2.41E-05	8.92E-05	0.00E+00
966	587651.1	4154664	0.000255	0.000605	0.00E+00	5.18E-04	6.12E-04	0.00E+00	4.13E-05	1.38E-04	0.00E+00	2.33E-05	8.62E-05	0.00E+00
967	587641.9	4154666	0.000251	0.000595	0.00E+00	5.09E-04	6.02E-04	0.00E+00	4.06E-05	1.35E-04	0.00E+00	2.29E-05	8.47E-05	0.00E+00
968	587632.7	4154668	0.000247	0.000585	0.00E+00	5.01E-04	5.92E-04	0.00E+00	3.99E-05	1.33E-04	0.00E+00	2.25E-05	8.34E-05	0.00E+00
969	587623.4	4154670	0.000243	0.000576	0.00E+00	4.93E-04	5.83E-04	0.00E+00	3.93E-05	1.31E-04	0.00E+00	2.22E-05	8.21E-05	0.00E+00
970	587614.2	4154672	0.000239	0.000568	0.00E+00	4.86E-04	5.75E-04	0.00E+00	3.87E-05	1.29E-04	0.00E+00	2.18E-05	8.08E-05	0.00E+00
971	587597	4154669	0.000242	0.000575	0.00E+00	4.92E-04	5.82E-04	0.00E+00	3.92E-05	1.31E-04	0.00E+00	2.21E-05	8.19E-05	0.00E+00
972	587589.1	4154664	0.000249	0.000591	0.00E+00	5.06E-04	5.98E-04	0.00E+00	4.03E-05	1.34E-04	0.00E+00	2.27E-05	8.42E-05	0.00E+00
973	587581.3	4154658	0.000256	0.000608	0.00E+00	5.21E-04	6.15E-04	0.00E+00	4.15E-05	1.38E-04	0.00E+00	2.34E-05	8.66E-05	0.00E+00
974	587573.4	4154653	0.000264	0.000625	0.00E+00	5.36E-04	6.33E-04	0.00E+00	4.27E-05	1.42E-04	0.00E+00	2.41E-05	8.91E-05	0.00E+00
975	587565.5	4154648	0.000271	0.000643	0.00E+00	5.51E-04	6.51E-04	0.00E+00	4.39E-05	1.46E-04	0.00E+00	2.48E-05	9.16E-05	0.00E+00
976	587526	4154622	0.000309	0.000734	0.00E+00	6.29E-04	7.43E-04	0.00E+00	5.01E-05	1.67E-04	0.00E+00	2.83E-05	1.05E-04	0.00E+00
977	587518.1	4154617	0.000317	0.000752	0.00E+00	6.44E-04	7.61E-04	0.00E+00	5.13E-05	1.71E-04	0.00E+00	2.89E-05	1.07E-04	0.00E+00
978	587510.2	4154612	0.000324	0.000768	0.00E+00	6.58E-04	7.78E-04	0.00E+00	5.24E-05	1.75E-04	0.00E+00	2.96E-05	1.09E-04	0.00E+00
979	587502.3	4154607	0.00033	0.000784	0.00E+00	6.72E-04	7.94E-04	0.00E+00	5.35E-05	1.78E-04	0.00E+00	3.02E-05	1.12E-04	0.00E+00
980	587799	4154634	0.00033	0.000783	0.00E+00	6.71E-04	7.93E-04	0.00E+00	5.35E-05	1.78E-04	0.00E+00	3.01E-05	1.12E-04	0.00E+00
981	587806.9	4154629	0.000342	0.000811	0.00E+00	6.95E-04	8.21E-04	0.00E+00	5.54E-05	1.85E-04	0.00E+00	3.12E-05	1.16E-04	0.00E+00
982	587814.8	4154623	0.000354	0.00084	0.00E+00	7.20E-04	8.50E-04	0.00E+00	5.73E-05	1.91E-04	0.00E+00	3.23E-05	1.20E-04	0.00E+00
983	587830.5	4154613	0.00038	0.000902	0.00E+00	7.72E-04	9.13E-04	0.00E+00	6.15E-05	2.05E-04	0.00E+00	3.47E-05	1.28E-04	0.00E+00
984	587838.4	4154608	0.000394	0.000934	0.00E+00	8.00E-04	9.46E-04	0.00E+00	6.37E-05	2.12E-04	0.00E+00	3.59E-05	1.33E-04	0.00E+00
985	587846.3	4154602	0.000408	0.000968	0.00E+00	8.29E-04	9.80E-04	0.00E+00	6.60E-05	2.20E-04	0.00E+00	3.72E-05	1.38E-04	0.00E+00
986	587854.2	4154597	0.000423	0.001003	0.00E+00	8.59E-04	1.02E-03	0.00E+00	6.84E-05	2.28E-04	0.00E+00	3.86E-05	1.43E-04	0.00E+00
987	587869.9	4154586	0.000454	0.001077	0.00E+00	9.22E-04	1.09E-03	0.00E+00	7.35E-05	2.45E-04	0.00E+00	4.14E-05	1.53E-04	0.00E+00
988	587795.4	4154644	0.000309	0.000732	0.00E+00	6.27E-04	7.41E-04	0.00E+00	5.00E-05	1.67E-04	0.00E+00	2.82E-05	1.04E-04	0.00E+00
989	587786.3	4154646	0.000305	0.000723	0.00E+00	6.20E-04	7.32E-04	0.00E+00	4.94E-05	1.65E-04	0.00E+00	2.78E-05	1.03E-04	0.00E+00
990	587777.1	4154648	0.000301	0.000714	0.00E+00	6.12E-04	7.23E-04	0.00E+00	4.87E-05	1.62E-04	0.00E+00	2.75E-05	1.02E-04	0.00E+00
991	587768	4154650	0.000297	0.000705	0.00E+00	6.04E-04	7.13E-04	0.00E+00	4.81E-05	1.60E-04	0.00E+00	2.71E-05	1.00E-04	0.00E+00
992	587758.8	4154652	0.000293	0.000695	0.00E+00	5.95E-04	7.04E-04	0.00E+00	4.74E-05	1.58E-04	0.00E+00	2.67E-05	9.90E-05	0.00E+00
993	587731.3	4154657	0.00028	0.000663	0.00E+00	5.68E-04	6.71E-04	0.00E+00	4.53E-05	1.51E-04	0.00E+00	2.55E-05	9.45E-05	0.00E+00
994	587722.1	4154659	0.000275	0.000652	0.00E+00	5.58E-04	6.60E-04	0.00E+00	4.45E-05	1.48E-04	0.00E+00	2.51E-05	9.28E-05	0.00E+00
995	587713	4154661	0.00027	0.000641	0.00E+00	5.49E-04	6.49E-04	0.00E+00	4.37E-05	1.46E-04	0.00E+00	2.47E-05	9.13E-05	0.00E+00
996	587703.8	4154663	0.000266	0.00063	0.00E+00	5.40E-04	6.38E-04	0.00E+00	4.30E-05	1.43E-04	0.00E+00	2.42E-05	8.98E-05	0.00E+00
997	587694.7	4154665	0.000261	0.00062	0.00E+00	5.31E-04	6.27E-04	0.00E+00	4.23E-05	1.41E-04	0.00E+00	2.38E-05	8.83E-05	0.00E+00
998	587685.5	4154667	0.000257	0.000609	0.00E+00	5.22E-04	6.16E-04	0.00E+00	4.16E-05	1.39E-04	0.00E+00	2.34E-05	8.67E-05	0.00E+00

999	587676.3	4154669	0.000252	0.000599	0.00E+00	5.13E-04	6.06E-04	0.00E+00	4.09E-05	1.36E-04	0.00E+00	2.30E-05	8.53E-05	0.00E+00
1000	587648.9	4154674	0.00024	0.000569	0.00E+00	4.88E-04	5.76E-04	0.00E+00	3.88E-05	1.29E-04	0.00E+00	2.19E-05	8.11E-05	0.00E+00
1001	587639.7	4154676	0.000236	0.00056	0.00E+00	4.80E-04	5.67E-04	0.00E+00	3.82E-05	1.27E-04	0.00E+00	2.16E-05	7.98E-05	0.00E+00
1002	587630.5	4154678	0.000232	0.000552	0.00E+00	4.72E-04	5.58E-04	0.00E+00	3.76E-05	1.25E-04	0.00E+00	2.12E-05	7.86E-05	0.00E+00
1003	587621.4	4154680	0.000229	0.000544	0.00E+00	4.66E-04	5.50E-04	0.00E+00	3.71E-05	1.24E-04	0.00E+00	2.09E-05	7.74E-05	0.00E+00
1004	587612.2	4154682	0.000226	0.000536	0.00E+00	4.59E-04	5.42E-04	0.00E+00	3.66E-05	1.22E-04	0.00E+00	2.06E-05	7.63E-05	0.00E+00
1005	587595.2	4154679	0.000229	0.000543	0.00E+00	4.65E-04	5.49E-04	0.00E+00	3.70E-05	1.23E-04	0.00E+00	2.09E-05	7.73E-05	0.00E+00
1006	587587.4	4154673	0.000235	0.000558	0.00E+00	4.78E-04	5.64E-04	0.00E+00	3.81E-05	1.27E-04	0.00E+00	2.15E-05	7.94E-05	0.00E+00
1007	587579.6	4154668	0.000241	0.000573	0.00E+00	4.91E-04	5.80E-04	0.00E+00	3.91E-05	1.30E-04	0.00E+00	2.20E-05	8.16E-05	0.00E+00
1008	587571.8	4154663	0.000248	0.000589	0.00E+00	5.04E-04	5.96E-04	0.00E+00	4.02E-05	1.34E-04	0.00E+00	2.27E-05	8.39E-05	0.00E+00
1009	587517	4154627	0.000297	0.000705	0.00E+00	6.04E-04	7.14E-04	0.00E+00	4.81E-05	1.60E-04	0.00E+00	2.71E-05	1.00E-04	0.00E+00
1010	587509.2	4154622	0.000304	0.000721	0.00E+00	6.18E-04	7.30E-04	0.00E+00	4.92E-05	1.64E-04	0.00E+00	2.77E-05	1.03E-04	0.00E+00
1011	587501.3	4154617	0.00031	0.000736	0.00E+00	6.30E-04	7.45E-04	0.00E+00	5.02E-05	1.67E-04	0.00E+00	2.83E-05	1.05E-04	0.00E+00
1012	587493.5	4154612	0.000316	0.00075	0.00E+00	6.42E-04	7.59E-04	0.00E+00	5.12E-05	1.71E-04	0.00E+00	2.89E-05	1.07E-04	0.00E+00
1013	587804.6	4154642	0.000312	0.000741	0.00E+00	6.34E-04	7.50E-04	0.00E+00	5.05E-05	1.68E-04	0.00E+00	2.85E-05	1.05E-04	0.00E+00
1014	587812.5	4154637	0.000323	0.000766	0.00E+00	6.56E-04	7.75E-04	0.00E+00	5.23E-05	1.74E-04	0.00E+00	2.95E-05	1.09E-04	0.00E+00
1015	587820.4	4154632	0.000334	0.000793	0.00E+00	6.79E-04	8.02E-04	0.00E+00	5.41E-05	1.80E-04	0.00E+00	3.05E-05	1.13E-04	0.00E+00
1016	587836.1	4154621	0.000357	0.000848	0.00E+00	7.27E-04	8.59E-04	0.00E+00	5.79E-05	1.93E-04	0.00E+00	3.26E-05	1.21E-04	0.00E+00
1017	587844	4154616	0.00037	0.000878	0.00E+00	7.52E-04	8.89E-04	0.00E+00	5.99E-05	2.00E-04	0.00E+00	3.38E-05	1.25E-04	0.00E+00
1018	587851.9	4154611	0.000383	0.000908	0.00E+00	7.78E-04	9.20E-04	0.00E+00	6.20E-05	2.07E-04	0.00E+00	3.50E-05	1.29E-04	0.00E+00
1019	587859.7	4154605	0.000396	0.00094	0.00E+00	8.05E-04	9.52E-04	0.00E+00	6.42E-05	2.14E-04	0.00E+00	3.62E-05	1.34E-04	0.00E+00
1020	587875.5	4154595	0.000424	0.001007	0.00E+00	8.63E-04	1.02E-03	0.00E+00	6.87E-05	2.29E-04	0.00E+00	3.87E-05	1.43E-04	0.00E+00
1021	587801.1	4154653	0.000292	0.000694	0.00E+00	5.94E-04	7.02E-04	0.00E+00	4.73E-05	1.58E-04	0.00E+00	2.67E-05	9.88E-05	0.00E+00
1022	587792	4154654	0.000289	0.000686	0.00E+00	5.87E-04	6.94E-04	0.00E+00	4.68E-05	1.56E-04	0.00E+00	2.64E-05	9.77E-05	0.00E+00
1023	587782.9	4154656	0.000286	0.000678	0.00E+00	5.80E-04	6.86E-04	0.00E+00	4.63E-05	1.54E-04	0.00E+00	2.61E-05	9.65E-05	0.00E+00
1024	587773.8	4154658	0.000282	0.000669	0.00E+00	5.73E-04	6.77E-04	0.00E+00	4.57E-05	1.52E-04	0.00E+00	2.58E-05	9.53E-05	0.00E+00
1025	587764.8	4154660	0.000278	0.000661	0.00E+00	5.66E-04	6.69E-04	0.00E+00	4.51E-05	1.50E-04	0.00E+00	2.54E-05	9.41E-05	0.00E+00
1026	587755.7	4154662	0.000275	0.000652	0.00E+00	5.58E-04	6.60E-04	0.00E+00	4.45E-05	1.48E-04	0.00E+00	2.51E-05	9.28E-05	0.00E+00
1027	587746.6	4154664	0.000271	0.000642	0.00E+00	5.50E-04	6.50E-04	0.00E+00	4.38E-05	1.46E-04	0.00E+00	2.47E-05	9.15E-05	0.00E+00
1028	587737.5	4154666	0.000266	0.000632	0.00E+00	5.41E-04	6.40E-04	0.00E+00	4.31E-05	1.44E-04	0.00E+00	2.43E-05	9.00E-05	0.00E+00
1029	587728.4	4154667	0.000262	0.000622	0.00E+00	5.33E-04	6.29E-04	0.00E+00	4.24E-05	1.41E-04	0.00E+00	2.39E-05	8.86E-05	0.00E+00
1030	587719.3	4154669	0.000258	0.000612	0.00E+00	5.24E-04	6.19E-04	0.00E+00	4.17E-05	1.39E-04	0.00E+00	2.35E-05	8.71E-05	0.00E+00
1031	587710.2	4154671	0.000254	0.000602	0.00E+00	5.16E-04	6.09E-04	0.00E+00	4.11E-05	1.37E-04	0.00E+00	2.32E-05	8.57E-05	0.00E+00
1032	587701.1	4154673	0.00025	0.000592	0.00E+00	5.07E-04	5.99E-04	0.00E+00	4.04E-05	1.35E-04	0.00E+00	2.28E-05	8.43E-05	0.00E+00
1033	587692.1	4154675	0.000245	0.000582	0.00E+00	4.99E-04	5.89E-04	0.00E+00	3.97E-05	1.32E-04	0.00E+00	2.24E-05	8.30E-05	0.00E+00
1034	587655.7	4154682	0.00023	0.000545	0.00E+00	4.67E-04	5.52E-04	0.00E+00	3.72E-05	1.24E-04	0.00E+00	2.10E-05	7.77E-05	0.00E+00
1035	587646.6	4154684	0.000226	0.000537	0.00E+00	4.60E-04	5.43E-04	0.00E+00	3.66E-05	1.22E-04	0.00E+00	2.07E-05	7.65E-05	0.00E+00
1036	587637.5	4154686	0.000223	0.000529	0.00E+00	4.53E-04	5.35E-04	0.00E+00	3.61E-05	1.20E-04	0.00E+00	2.03E-05	7.53E-05	0.00E+00
1037	587628.4	4154688	0.00022	0.000521	0.00E+00	4.46E-04	5.27E-04	0.00E+00	3.56E-05	1.19E-04	0.00E+00	2.00E-05	7.42E-05	0.00E+00
1038	587619.4	4154690	0.000216	0.000514	0.00E+00	4.40E-04	5.20E-04	0.00E+00	3.51E-05	1.17E-04	0.00E+00	1.98E-05	7.32E-05	0.00E+00
1039	587610.3	4154692	0.000214	0.000507	0.00E+00	4.34E-04	5.13E-04	0.00E+00	3.46E-05	1.15E-04	0.00E+00	1.95E-05	7.22E-05	0.00E+00
1040	587593.4	4154688	0.000216	0.000513	0.00E+00	4.40E-04	5.19E-04	0.00E+00	3.50E-05	1.17E-04	0.00E+00	1.97E-05	7.31E-05	0.00E+00
1041	587585.7	4154683	0.000222	0.000527	0.00E+00	4.51E-04	5.33E-04	0.00E+00	3.59E-05	1.20E-04	0.00E+00	2.03E-05	7.50E-05	0.00E+00
1042	587554.6	4154663	0.000247	0.000586	0.00E+00	5.02E-04	5.93E-04	0.00E+00	4.00E-05	1.33E-04	0.00E+00	2.25E-05	8.34E-05	0.00E+00
1043	587546.9	4154658	0.000253	0.000601	0.00E+00	5.15E-04	6.09E-04	0.00E+00	4.10E-05	1.37E-04	0.00E+00	2.31E-05	8.57E-05	0.00E+00
1044	587539.1	4154653	0.00026	0.000617	0.00E+00	5.28E-04	6.24E-04	0.00E+00	4.21E-05	1.40E-04	0.00E+00	2.37E-05	8.79E-05	0.00E+00
1045	587531.3	4154648	0.000267	0.000633	0.00E+00	5.42E-04	6.40E-04	0.00E+00	4.32E-05	1.44E-04	0.00E+00	2.43E-05	9.01E-05	0.00E+00
1046	587508	4154633	0.000286	0.000678	0.00E+00	5.81E-04	6.86E-04	0.00E+00	4.63E-05	1.54E-04	0.00E+00	2.61E-05	9.66E-05	0.00E+00
1047	587500.3	4154628	0.000292	0.000692	0.00E+00	5.93E-04	7.00E-04	0.00E+00	4.72E-05	1.57E-04	0.00E+00	2.66E-05	9.86E-05	0.00E+00
1048	587492.5	4154622	0.000297	0.000706	0.00E+00	6.04E-04	7.14E-04	0.00E+00	4.81E-05	1.60E-04	0.00E+00	2.71E-05	1.00E-04	0.00E+00
1049	587484.8	4154617	0.000303	0.000718	0.00E+00	6.15E-04	7.27E-04	0.00E+00	4.90E-05	1.63E-04	0.00E+00	2.76E-05	1.02E-04	0.00E+00
1050	587810.2	4154651	0.000296	0.000701	0.00E+00	6.01E-04	7.10E-04	0.00E+00	4.79E-05	1.60E-04	0.00E+00	2.70E-05	9.99E-05	0.00E+00
1051	587818.1	4154645	0.000305	0.000725	0.00E+00	6.21E-04	7.34E-04	0.00E+00	4.95E-05	1.65E-04	0.00E+00	2.79E-05	1.03E-04	0.00E+00
1052	587825.9	4154640	0.000316	0.000749	0.00E+00	6.41E-04	7.58E-04	0.00E+00	5.11E-05	1.70E-04	0.00E+00	2.88E-05	1.07E-04	0.00E+00
1053	587841.7	4154629	0.000337	0.0008	0.00E+00	6.85E-04	8.10E-04	0.00E+00	5.46E-05	1.82E-04	0.00E+00	3.08E-05	1.14E-04	0.00E+00
1054	587849.6	4154624	0.000348	0.000827	0.00E+00	7.08E-04	8.37E-04	0.00E+00	5.64E-05	1.88E-04	0.00E+00	3.18E-05	1.18E-04	0.00E+00
1055	587857.5	4154619	0.00036	0.000854	0.00E+00	7.32E-04	8.65E-04	0.00E+00	5.83E-05	1.94E-04	0.00E+00	3.29E-05	1.22E-04	0.00E+00
1056	587865.3	4154614	0.000372	0.000883	0.00E+00	7.57E-04	8.94E-04	0.00E+00	6.03E-05	2.01E-04	0.00E+00	3.40E-05	1.26E-04	0.00E+00
1057	587881.1	4154603	0.000398	0.000944	0.00E+00	8.09E-04	9.56E-04	0.00E+00	6.44E-05	2.15E-04	0.00E+00	3.63E-05	1.34E-04	0.00E+00
1058	587806.8	4154661	0.000277	0.000658	0.00E+00	5.64E-04	6.66E-04	0.00E+00	4.49E-05	1.50E-04	0.00E+00	2.53E-05	9.38E-05	0.00E+00
1059	587797.7	4154663	0.000274	0.000651	0.00E+00	5.58E-04	6.59E-04	0.00E+00	4.44E-05	1.48E-04	0.00E+00	2.51E-05	9.28E-05	0.00E+00
1060	587788.7	4154665	0.000271	0.000644	0.00E+00	5.52E-04	6.52E-04	0.00E+00	4.39E-05	1.46E-04	0.00E+00	2.48E-05	9.17E-05	0.00E+00
1061	587779.7	4154666	0.000268	0.000636	0.00E+00	5.45E-04	6.44E-04	0.00E+00	4.34E-05	1.45E-04	0.00E+00	2.45E-05	9.06E-05	0.00E+00
1062	587770.7	4154668	0.000265	0.000628	0.00E+00	5.38E-04	6.36E-04	0.00E+00	4.29E-05	1.43E-04	0.00E+00	2.42E-05	8.95E-05	0.00E+00
1063	587761.7	4154670	0.000261	0.00062	0.00E+00	5.31E-04	6.28E-04	0.00E+00	4.23E-05	1.41E-04	0.00E+00	2.39E-05	8.84E-05	0.00E+00
1064	587752.6	4154672	0.000258	0.000612	0.00E+00	5.24E-04	6.19E-04	0.00E+00	4.18E-05	1.39E-04	0.00E+00	2.35E-05	8.72E-05	0.00E+00
1065	587743.6	4154674	0.000254	0.000603	0.00E+00	5.16E-04	6.10E-04	0.00E+00	4.11E-05	1.37E-04	0.00E+00	2.32E-05	8.59E-05	0.00E+00
1066	587734.6	4154676	0.00025	0.000594	0.00E+00	5.08E-04	6.01E-04	0.00E+00	4.05E-05	1.35E-04	0.00E+00	2.28E-05	8.45E-05	0.00E+00
1067	587725.6	4154677	0.000246	0.000584	0.00E+00	5.00E-04	5.91E-04	0.00E+00	3.99E-05	1.33E-04	0.00E+00	2.25E-05	8.32E-05	0.00E+00
1068	587716.6	4154679	0.000242	0.000575	0.00E+00	4.93E-04	5.82E-04	0.00E+00	3.93E-05	1.31E-04	0.00E+00	2.21E-05	8.20E-05	0.00E+00
1069	587707.5	4154681	0.000239	0.000566	0.00E+00	4.85E-04	5.73E-04	0.00E+00	3.87E-05	1.29E-04	0.00E+00	2.18E-05	8.07E-05	0.00E+00
1070	587698.5	4154683	0.000235	0.000557	0.00E+00	4.77E-04	5.64E-04	0.00E+00	3.80E-05	1.27E-04	0.00E+00	2.14E-05	7.94E-05	0.00E+00
1071	587689.5	4154685	0.000231	0.000549	0.00E+00	4.70E-04	5.55E-04	0.00E+00	3.74E-05	1.25E-04	0.00E+00	2.11E-05	7.81E-05	0.00E+00
1072	587653.4	4154692	0.000217	0.000515	0.00E+00	4.41E-04	5.21E-04	0.00E+00	3.51E-05	1.17E-04	0.00E+00	1.98E-05	7.33E-05	0.00E+00
1073	587644.4	4154694	0.000214	0.000507	0.00E+00	4.34E-04	5.13E-04	0.00E+00	3.46E-05	1.15E-04	0.00E+00	1.95E-05	7.22E-05	0.00E+00
1074	587635.4	4154696	0.000211	0.0005	0.00E+00	4.28E-04	5.06E-04	0.00E+00	3.41E-05	1.14E-04	0.00E+00	1.92E-05	7.12E-05	0.00E+00
1075	587626.4	4154698	0.000208	0.000493	0.00E+00	4.22E-04	4.99E-04	0.00E+00	3.36E-05	1.12E-04	0.00E+00	1.90E-05	7.02E-05	0.00E+00
1076	587617.3	4154700	0.000205	0.000486	0.00E+00	4.16E-04	4.92E-04	0.00E+00	3.32E-05	1.11E-04	0.00E+00	1.87E-05	6.93E-05	0.00E+00
1077	587608.3	4154702	0.000202	0.00048	0.00E+00	4.11E-04	4.86E-04	0.00E+00	3.28E-05	1.09E-04	0.00E+00	1.85E-05	6.84E-05	0.00E+00
1078	587591.6	4154698	0.000205	0.000486	0.00E+00	4.16E-04	4.92E-04	0.00E+00	3.32E-05	1.11E-04	0.00E+00	1.87E-05	6.92E-05	0.00E+00
1079	587560.8	4154678	0.000227	0.000539	0.00E+00	4.61E-04	5.45E-04	0.00E+00	3.68E-05	1.23E-04	0.00E+00	2.07E-05	7.67E-05	0.00E+00
1080	587553.1	4154673	0.000233	0.000553	0.00E+00	4.73E-04	5.60E-04	0.00E+00	3.77E-05	1.26E-04	0.00E+00	2.13E-05	7.87E-05	0.00E+00
1081	587545.4	4154668	0.000239	0.000567	0.00E+00	4.86E-04	5.74E-04	0.00E+00	3.87E-05	1.29E-04	0.00E+00	2.18E-05	8.08E-05	0.00E+00
1082	587537.7	4154663	0.000245	0.000582	0.00E+00	4.98E-04	5.89E-04	0.00E+00	3.97E-05	1.32E-04	0.00E+00	2.24E-05	8.28E-05	0.00E+00
1083	587530	4154658	0.000251	0.000596	0.00E+00	5.11E-04	6.03E-04	0.00E+00	4.07E-05	1.36E-04	0.00E+00	2.29E-05	8.49E-05	0.00E+00
1084	587522.3	4154653	0.000257	0.00061	0.00E+00	5.23E-04	6.18E-04	0.00E+00	4.17E-05	1.39E-04	0.00E+00	2.35E-05	8.70E-05	0.00E+00
1085	587499.2	4154638	0.000275	0.000652	0.00E+00	5.58E-04	6.60E-04	0.00E+00	4.45E-05	1.48E-04	0.00E+00	2.51E-05	9.28E-05	0.00E+00
1086	587491.5	4154633	0.00028	0.000665	0.00E+00	5.69E-04	6.73E-04	0.00E+00	4.54E-05	1.51E-04	0.00E+00	2.56E-05	9.47E-05	0.00E+00
1087	587483.7	4154628	0.000285	0.000677	0.00E+00	5.80E-04	6.85E-04	0.00E+00	4.62E-05	1.54E-04	0.00E+00	2.60E-05	9.64E-05	0.00E+00
1088	587476	4154623	0.00029	0.000688	0.00E+00	5.89E-04	6.97E-04	0.00E+00	4.70E-05	1.57E-04	0.00E+00	2.65E-05	9.80E-05	0.00E+00
1089	587815.8	4154659	0.00028	0.000665	0.00E+00	5.70E-04	6.73E-04	0.00E+00	4.54E-05	1.51E-04	0.00E+00	2.56E-05	9.48E-05	0.00E+00

1090	587823.7	4154654	0.000289	0.000687	0.00E+00	5.88E-04	6.95E-04	0.00E+00	4.69E-05	1.56E-04	0.00E+00	2.64E-05	9.78E-05	0.00E+00
1091	587831.5	4154648	0.000299	0.000709	0.00E+00	6.07E-04	7.17E-04	0.00E+00	4.84E-05	1.61E-04	0.00E+00	2.73E-05	1.01E-04	0.00E+00
1092	587847.3	4154638	0.000318	0.000755	0.00E+00	6.47E-04	7.65E-04	0.00E+00	5.16E-05	1.72E-04	0.00E+00	2.91E-05	1.08E-04	0.00E+00
1093	587855.2	4154632	0.000329	0.00078	0.00E+00	6.68E-04	7.89E-04	0.00E+00	5.32E-05	1.77E-04	0.00E+00	3.00E-05	1.11E-04	0.00E+00
1094	587863	4154627	0.000339	0.000805	0.00E+00	6.90E-04	8.15E-04	0.00E+00	5.50E-05	1.83E-04	0.00E+00	3.10E-05	1.15E-04	0.00E+00
1095	587870.9	4154622	0.00035	0.000832	0.00E+00	7.12E-04	8.42E-04	0.00E+00	5.68E-05	1.89E-04	0.00E+00	3.20E-05	1.18E-04	0.00E+00
1096	587886.7	4154611	0.000374	0.000887	0.00E+00	7.60E-04	8.98E-04	0.00E+00	6.05E-05	2.02E-04	0.00E+00	3.41E-05	1.26E-04	0.00E+00
1097	587812.4	4154669	0.000264	0.000626	0.00E+00	5.36E-04	6.33E-04	0.00E+00	4.27E-05	1.42E-04	0.00E+00	2.41E-05	8.91E-05	0.00E+00
1098	587803.4	4154671	0.000261	0.000619	0.00E+00	5.30E-04	6.27E-04	0.00E+00	4.23E-05	1.41E-04	0.00E+00	2.38E-05	8.82E-05	0.00E+00
1099	587794.5	4154673	0.000258	0.000613	0.00E+00	5.25E-04	6.20E-04	0.00E+00	4.18E-05	1.39E-04	0.00E+00	2.36E-05	8.73E-05	0.00E+00
1100	587785.5	4154675	0.000255	0.000606	0.00E+00	5.19E-04	6.13E-04	0.00E+00	4.13E-05	1.38E-04	0.00E+00	2.33E-05	8.63E-05	0.00E+00
1101	587776.6	4154676	0.000252	0.000599	0.00E+00	5.13E-04	6.06E-04	0.00E+00	4.09E-05	1.36E-04	0.00E+00	2.30E-05	8.53E-05	0.00E+00
1102	587767.6	4154678	0.000249	0.000591	0.00E+00	5.06E-04	5.99E-04	0.00E+00	4.04E-05	1.35E-04	0.00E+00	2.28E-05	8.42E-05	0.00E+00
1103	587758.7	4154680	0.000246	0.000583	0.00E+00	5.00E-04	5.90E-04	0.00E+00	3.98E-05	1.33E-04	0.00E+00	2.24E-05	8.31E-05	0.00E+00
1104	587749.7	4154682	0.000242	0.000575	0.00E+00	4.92E-04	5.82E-04	0.00E+00	3.92E-05	1.31E-04	0.00E+00	2.21E-05	8.19E-05	0.00E+00
1105	587740.7	4154684	0.000239	0.000567	0.00E+00	4.85E-04	5.74E-04	0.00E+00	3.87E-05	1.29E-04	0.00E+00	2.18E-05	8.07E-05	0.00E+00
1106	587731.8	4154686	0.000235	0.000559	0.00E+00	4.78E-04	5.65E-04	0.00E+00	3.81E-05	1.27E-04	0.00E+00	2.15E-05	7.96E-05	0.00E+00
1107	587722.8	4154687	0.000232	0.00055	0.00E+00	4.71E-04	5.57E-04	0.00E+00	3.76E-05	1.25E-04	0.00E+00	2.12E-05	7.84E-05	0.00E+00
1108	587713.9	4154689	0.000228	0.000542	0.00E+00	4.64E-04	5.49E-04	0.00E+00	3.70E-05	1.23E-04	0.00E+00	2.09E-05	7.72E-05	0.00E+00
1109	587704.9	4154691	0.000225	0.000534	0.00E+00	4.57E-04	5.41E-04	0.00E+00	3.64E-05	1.21E-04	0.00E+00	2.05E-05	7.61E-05	0.00E+00
1110	587696	4154693	0.000222	0.000526	0.00E+00	4.50E-04	5.32E-04	0.00E+00	3.59E-05	1.20E-04	0.00E+00	2.02E-05	7.49E-05	0.00E+00
1111	587687	4154695	0.000218	0.000518	0.00E+00	4.43E-04	5.24E-04	0.00E+00	3.53E-05	1.18E-04	0.00E+00	1.99E-05	7.37E-05	0.00E+00
1112	587660.1	4154700	0.000208	0.000494	0.00E+00	4.23E-04	5.00E-04	0.00E+00	3.37E-05	1.12E-04	0.00E+00	1.90E-05	7.04E-05	0.00E+00
1113	587651.2	4154702	0.000205	0.000487	0.00E+00	4.17E-04	4.93E-04	0.00E+00	3.32E-05	1.11E-04	0.00E+00	1.87E-05	6.94E-05	0.00E+00
1114	587642.2	4154704	0.000202	0.00048	0.00E+00	4.11E-04	4.86E-04	0.00E+00	3.28E-05	1.09E-04	0.00E+00	1.85E-05	6.84E-05	0.00E+00
1115	587633.3	4154706	0.000199	0.000473	0.00E+00	4.05E-04	4.79E-04	0.00E+00	3.23E-05	1.08E-04	0.00E+00	1.82E-05	6.74E-05	0.00E+00
1116	587624.3	4154708	0.000197	0.000467	0.00E+00	4.00E-04	4.73E-04	0.00E+00	3.19E-05	1.06E-04	0.00E+00	1.80E-05	6.65E-05	0.00E+00
1117	587615.3	4154710	0.000194	0.000461	0.00E+00	3.95E-04	4.67E-04	0.00E+00	3.15E-05	1.05E-04	0.00E+00	1.77E-05	6.57E-05	0.00E+00
1118	587606.4	4154711	0.000192	0.000455	0.00E+00	3.90E-04	4.61E-04	0.00E+00	3.11E-05	1.04E-04	0.00E+00	1.75E-05	6.49E-05	0.00E+00
1119	587574.5	4154698	0.000204	0.000485	0.00E+00	4.15E-04	4.90E-04	0.00E+00	3.31E-05	1.10E-04	0.00E+00	1.86E-05	6.90E-05	0.00E+00
1120	587566.8	4154693	0.000209	0.000497	0.00E+00	4.26E-04	5.03E-04	0.00E+00	3.39E-05	1.13E-04	0.00E+00	1.91E-05	7.08E-05	0.00E+00
1121	587559.2	4154688	0.000215	0.00051	0.00E+00	4.37E-04	5.16E-04	0.00E+00	3.48E-05	1.16E-04	0.00E+00	1.96E-05	7.26E-05	0.00E+00
1122	587551.5	4154683	0.00022	0.000523	0.00E+00	4.48E-04	5.29E-04	0.00E+00	3.57E-05	1.19E-04	0.00E+00	2.01E-05	7.44E-05	0.00E+00
1123	587543.9	4154678	0.000226	0.000536	0.00E+00	4.59E-04	5.42E-04	0.00E+00	3.66E-05	1.22E-04	0.00E+00	2.06E-05	7.63E-05	0.00E+00
1124	587536.2	4154673	0.000231	0.000549	0.00E+00	4.70E-04	5.56E-04	0.00E+00	3.75E-05	1.25E-04	0.00E+00	2.11E-05	7.82E-05	0.00E+00
1125	587528.6	4154668	0.000237	0.000563	0.00E+00	4.82E-04	5.70E-04	0.00E+00	3.84E-05	1.28E-04	0.00E+00	2.16E-05	8.01E-05	0.00E+00
1126	587520.9	4154663	0.000243	0.000576	0.00E+00	4.93E-04	5.83E-04	0.00E+00	3.93E-05	1.31E-04	0.00E+00	2.22E-05	8.21E-05	0.00E+00
1127	587513.3	4154658	0.000248	0.000589	0.00E+00	5.05E-04	5.96E-04	0.00E+00	4.02E-05	1.34E-04	0.00E+00	2.27E-05	8.39E-05	0.00E+00
1128	587490.3	4154643	0.000264	0.000627	0.00E+00	5.37E-04	6.35E-04	0.00E+00	4.28E-05	1.43E-04	0.00E+00	2.41E-05	8.93E-05	0.00E+00
1129	587482.7	4154638	0.000269	0.000639	0.00E+00	5.47E-04	6.46E-04	0.00E+00	4.36E-05	1.45E-04	0.00E+00	2.46E-05	9.10E-05	0.00E+00
1130	587475	4154633	0.000274	0.00065	0.00E+00	5.56E-04	6.58E-04	0.00E+00	4.43E-05	1.48E-04	0.00E+00	2.50E-05	9.25E-05	0.00E+00
1131	587467.4	4154628	0.000278	0.00066	0.00E+00	5.65E-04	6.68E-04	0.00E+00	4.50E-05	1.50E-04	0.00E+00	2.54E-05	9.40E-05	0.00E+00
1132	587821.4	4154667	0.000266	0.000632	0.00E+00	5.41E-04	6.40E-04	0.00E+00	4.31E-05	1.44E-04	0.00E+00	2.43E-05	9.00E-05	0.00E+00
1133	587829.2	4154662	0.000275	0.000652	0.00E+00	5.58E-04	6.59E-04	0.00E+00	4.45E-05	1.48E-04	0.00E+00	2.51E-05	9.28E-05	0.00E+00
1134	587837.1	4154657	0.000283	0.000672	0.00E+00	5.75E-04	6.80E-04	0.00E+00	4.59E-05	1.53E-04	0.00E+00	2.58E-05	9.57E-05	0.00E+00
1135	587852.9	4154646	0.000301	0.000715	0.00E+00	6.12E-04	7.23E-04	0.00E+00	4.88E-05	1.63E-04	0.00E+00	2.75E-05	1.02E-04	0.00E+00
1136	587860.8	4154641	0.000311	0.000737	0.00E+00	6.31E-04	7.46E-04	0.00E+00	5.03E-05	1.68E-04	0.00E+00	2.84E-05	1.05E-04	0.00E+00
1137	587868.6	4154635	0.00032	0.00076	0.00E+00	6.51E-04	7.70E-04	0.00E+00	5.19E-05	1.73E-04	0.00E+00	2.93E-05	1.08E-04	0.00E+00
1138	587876.5	4154630	0.000331	0.000784	0.00E+00	6.72E-04	7.94E-04	0.00E+00	5.35E-05	1.78E-04	0.00E+00	3.02E-05	1.12E-04	0.00E+00
1139	587892.3	4154619	0.000352	0.000835	0.00E+00	7.15E-04	8.45E-04	0.00E+00	5.70E-05	1.90E-04	0.00E+00	3.21E-05	1.19E-04	0.00E+00
1140	587817.7	4154677	0.000251	0.000595	0.00E+00	5.10E-04	6.02E-04	0.00E+00	4.06E-05	1.35E-04	0.00E+00	2.29E-05	8.48E-05	0.00E+00
1141	587808.4	4154679	0.000248	0.000589	0.00E+00	5.04E-04	5.96E-04	0.00E+00	4.02E-05	1.34E-04	0.00E+00	2.27E-05	8.39E-05	0.00E+00
1142	587799.2	4154681	0.000246	0.000583	0.00E+00	4.99E-04	5.90E-04	0.00E+00	3.98E-05	1.33E-04	0.00E+00	2.24E-05	8.30E-05	0.00E+00
1143	587789.9	4154683	0.000243	0.000576	0.00E+00	4.94E-04	5.83E-04	0.00E+00	3.93E-05	1.31E-04	0.00E+00	2.22E-05	8.21E-05	0.00E+00
1144	587780.7	4154685	0.00024	0.00057	0.00E+00	4.88E-04	5.76E-04	0.00E+00	3.89E-05	1.30E-04	0.00E+00	2.19E-05	8.11E-05	0.00E+00
1145	587771.4	4154687	0.000237	0.000563	0.00E+00	4.82E-04	5.69E-04	0.00E+00	3.84E-05	1.28E-04	0.00E+00	2.16E-05	8.01E-05	0.00E+00
1146	587762.2	4154689	0.000234	0.000555	0.00E+00	4.75E-04	5.62E-04	0.00E+00	3.79E-05	1.26E-04	0.00E+00	2.13E-05	7.90E-05	0.00E+00
1147	587752.9	4154691	0.00023	0.000547	0.00E+00	4.68E-04	5.53E-04	0.00E+00	3.73E-05	1.24E-04	0.00E+00	2.10E-05	7.79E-05	0.00E+00
1148	587743.7	4154693	0.000227	0.000539	0.00E+00	4.62E-04	5.46E-04	0.00E+00	3.68E-05	1.23E-04	0.00E+00	2.07E-05	7.68E-05	0.00E+00
1149	587734.4	4154695	0.000224	0.000532	0.00E+00	4.55E-04	5.38E-04	0.00E+00	3.63E-05	1.21E-04	0.00E+00	2.05E-05	7.57E-05	0.00E+00
1150	587725.1	4154696	0.000221	0.000524	0.00E+00	4.49E-04	5.30E-04	0.00E+00	3.57E-05	1.19E-04	0.00E+00	2.02E-05	7.46E-05	0.00E+00
1151	587715.9	4154698	0.000217	0.000516	0.00E+00	4.42E-04	5.22E-04	0.00E+00	3.52E-05	1.17E-04	0.00E+00	1.98E-05	7.35E-05	0.00E+00
1152	587706.6	4154700	0.000214	0.000508	0.00E+00	4.35E-04	5.14E-04	0.00E+00	3.47E-05	1.16E-04	0.00E+00	1.95E-05	7.24E-05	0.00E+00
1153	587697.4	4154702	0.000211	0.0005	0.00E+00	4.28E-04	5.06E-04	0.00E+00	3.41E-05	1.14E-04	0.00E+00	1.92E-05	7.12E-05	0.00E+00
1154	587688.1	4154704	0.000207	0.000492	0.00E+00	4.22E-04	4.98E-04	0.00E+00	3.36E-05	1.12E-04	0.00E+00	1.89E-05	7.01E-05	0.00E+00
1155	587678.9	4154706	0.000204	0.000485	0.00E+00	4.15E-04	4.91E-04	0.00E+00	3.31E-05	1.10E-04	0.00E+00	1.86E-05	6.90E-05	0.00E+00
1156	587669.6	4154708	0.000201	0.000477	0.00E+00	4.09E-04	4.83E-04	0.00E+00	3.26E-05	1.09E-04	0.00E+00	1.84E-05	6.80E-05	0.00E+00
1157	587660.3	4154710	0.000198	0.00047	0.00E+00	4.02E-04	4.76E-04	0.00E+00	3.21E-05	1.07E-04	0.00E+00	1.81E-05	6.69E-05	0.00E+00
1158	587651.1	4154712	0.000195	0.000463	0.00E+00	3.97E-04	4.69E-04	0.00E+00	3.16E-05	1.05E-04	0.00E+00	1.78E-05	6.59E-05	0.00E+00
1159	587641.8	4154714	0.000192	0.000456	0.00E+00	3.91E-04	4.62E-04	0.00E+00	3.11E-05	1.04E-04	0.00E+00	1.76E-05	6.50E-05	0.00E+00
1160	587632.6	4154715	0.00019	0.00045	0.00E+00	3.85E-04	4.55E-04	0.00E+00	3.07E-05	1.02E-04	0.00E+00	1.73E-05	6.41E-05	0.00E+00
1161	587623.3	4154717	0.000187	0.000444	0.00E+00	3.80E-04	4.49E-04	0.00E+00	3.03E-05	1.01E-04	0.00E+00	1.71E-05	6.32E-05	0.00E+00
1162	587614.1	4154719	0.000185	0.000438	0.00E+00	3.75E-04	4.43E-04	0.00E+00	2.99E-05	9.97E-05	0.00E+00	1.69E-05	6.24E-05	0.00E+00
1163	587587.7	4154718	0.000185	0.000438	0.00E+00	3.75E-04	4.44E-04	0.00E+00	2.99E-05	9.97E-05	0.00E+00	1.69E-05	6.24E-05	0.00E+00
1164	587579.7	4154713	0.000189	0.000449	0.00E+00	3.85E-04	4.55E-04	0.00E+00	3.07E-05	1.02E-04	0.00E+00	1.73E-05	6.40E-05	0.00E+00
1165	587571.8	4154707	0.000194	0.000461	0.00E+00	3.95E-04	4.67E-04	0.00E+00	3.15E-05	1.05E-04	0.00E+00	1.77E-05	6.57E-05	0.00E+00
1166	587563.9	4154702	0.000199	0.000473	0.00E+00	4.05E-04	4.79E-04	0.00E+00	3.23E-05	1.08E-04	0.00E+00	1.82E-05	6.74E-05	0.00E+00
1167	587556	4154697	0.000204	0.000485	0.00E+00	4.16E-04	4.91E-04	0.00E+00	3.31E-05	1.10E-04	0.00E+00	1.87E-05	6.91E-05	0.00E+00
1168	587548.1	4154692	0.00021	0.000498	0.00E+00	4.26E-04	5.04E-04	0.00E+00	3.40E-05	1.13E-04	0.00E+00	1.92E-05	7.09E-05	0.00E+00
1169	587540.2	4154687	0.000215	0.000511	0.00E+00	4.37E-04	5.17E-04	0.00E+00	3.49E-05	1.16E-04	0.00E+00	1.96E-05	7.27E-05	0.00E+00
1170	587532.3	4154682	0.000221	0.000524	0.00E+00	4.48E-04	5.30E-04	0.00E+00	3.57E-05	1.19E-04	0.00E+00	2.01E-05	7.46E-05	0.00E+00
1171	587524.4	4154676	0.000226	0.000537	0.00E+00	4.60E-04	5.43E-04	0.00E+00	3.66E-05	1.22E-04	0.00E+00	2.06E-05	7.64E-05	0.00E+00
1172	587516.5	4154671	0.000232	0.00055	0.00E+00	4.71E-04	5.56E-04	0.00E+00	3.75E-05	1.25E-04	0.00E+00	2.11E-05	7.83E-05	0.00E+00
1173	587508.6	4154666	0.000237	0.000562	0.00E+00	4.82E-04	5.69E-04	0.00E+00	3.84E-05	1.28E-04	0.00E+00	2.16E-05	8.01E-05	0.00E+00
1174	587484.9	4154651	0.000252	0.000599	0.00E+00	5.13E-04	6.06E-04	0.00E+00	4.09E-05	1.36E-04	0.00E+00	2.30E-05	8.53E-05	0.00E+00
1175	587477	4154645	0.000257	0.00061	0.00E+00	5.22E-04	6.17E-04	0.00E+00	4.16E-05	1.39E-04	0.00E+00	2.35E-05	8.69E-05	0.00E+00
1176	587469.1	4154640	0.000261	0.000621	0.00E+00	5.31E-04	6.28E-04	0.00E+00	4.23E-05	1.41E-04	0.00E+00	2.39E-05	8.84E-05	0.00E+00
1177	587461.2	4154635	0.000266	0.00063	0.00E+00	5.40E-04	6.38E-04	0.00E+00	4.30E-05	1.43E-04	0.00E+00	2.43E-05	8.98E-05	0.00E+00
1178	587827	4154676	0.000253	0.000601	0.00E+00	5.15E-04	6.08E-04	0.00E+00	4.10E-05	1.37E-04	0.00E+00	2.31E-05	8.56E-05	0.00E+00
1179	587834.8	4154670	0.000261	0.000619	0.00E+00	5.30E-04	6.27E-04	0.00E+00	4.22E-05	1.41E-04	0.00E+00	2.38E-05	8.82E-05	0.00E+00
1180	587842.7	4154665	0.000269	0.000638	0.00E+00	5.46E-04	6.46E-04	0.00E+00	4.35E-05	1.45E-04	0.00E+00	2.45E-05	9.09E-05	0.00E+00

1181	587858.5	4154654	0.000285	0.000677	0.00E+00	5.80E-04	6.85E-04	0.00E+00	4.62E-05	1.54E-04	0.00E+00	2.61E-05	9.65E-05	0.00E+00
1182	587866.3	4154649	0.000294	0.000698	0.00E+00	5.98E-04	7.06E-04	0.00E+00	4.76E-05	1.59E-04	0.00E+00	2.68E-05	9.94E-05	0.00E+00
1183	587874.2	4154644	0.000303	0.000719	0.00E+00	6.16E-04	7.28E-04	0.00E+00	4.91E-05	1.64E-04	0.00E+00	2.77E-05	1.02E-04	0.00E+00
1184	587882.1	4154638	0.000312	0.000741	0.00E+00	6.35E-04	7.50E-04	0.00E+00	5.06E-05	1.69E-04	0.00E+00	2.85E-05	1.06E-04	0.00E+00
1185	587897.9	4154628	0.000332	0.000787	0.00E+00	6.74E-04	7.97E-04	0.00E+00	5.37E-05	1.79E-04	0.00E+00	3.03E-05	1.12E-04	0.00E+00
1186	587771.8	4154423	0.004025	0.009553	0.00E+00	8.18E-03	9.67E-03	0.00E+00	6.52E-04	2.17E-03	0.00E+00	3.68E-04	1.36E-03	0.00E+00
1187	587779.5	4154418	0.00423	0.010039	0.00E+00	8.60E-03	1.02E-02	0.00E+00	6.85E-04	2.28E-03	0.00E+00	3.86E-04	1.43E-03	0.00E+00
1188	587787.2	4154413	0.00441	0.010465	0.00E+00	8.96E-03	1.06E-02	0.00E+00	7.14E-04	2.38E-03	0.00E+00	4.03E-04	1.49E-03	0.00E+00
1189	587794.9	4154407	0.004561	0.010825	0.00E+00	9.27E-03	1.10E-02	0.00E+00	7.39E-04	2.46E-03	0.00E+00	4.16E-04	1.54E-03	0.00E+00
1190	587802.6	4154402	0.004682	0.011111	0.00E+00	9.52E-03	1.12E-02	0.00E+00	7.58E-04	2.53E-03	0.00E+00	4.27E-04	1.58E-03	0.00E+00
1191	587810.3	4154397	0.004771	0.011322	0.00E+00	9.70E-03	1.15E-02	0.00E+00	7.73E-04	2.58E-03	0.00E+00	4.36E-04	1.61E-03	0.00E+00
1192	587818	4154392	0.004824	0.011448	0.00E+00	9.80E-03	1.16E-02	0.00E+00	7.81E-04	2.60E-03	0.00E+00	4.40E-04	1.63E-03	0.00E+00
1193	587777.4	4154432	0.003342	0.007932	0.00E+00	6.79E-03	8.03E-03	0.00E+00	5.41E-04	1.80E-03	0.00E+00	3.05E-04	1.13E-03	0.00E+00
1194	587785.1	4154426	0.003518	0.008349	0.00E+00	7.15E-03	8.45E-03	0.00E+00	5.70E-04	1.90E-03	0.00E+00	3.21E-04	1.19E-03	0.00E+00
1195	587792.8	4154421	0.003676	0.008723	0.00E+00	7.47E-03	8.83E-03	0.00E+00	5.95E-04	1.98E-03	0.00E+00	3.36E-04	1.24E-03	0.00E+00
1196	587800.5	4154416	0.003814	0.009051	0.00E+00	7.75E-03	9.16E-03	0.00E+00	6.18E-04	2.06E-03	0.00E+00	3.48E-04	1.29E-03	0.00E+00
1197	587808.2	4154410	0.003928	0.009322	0.00E+00	7.98E-03	9.44E-03	0.00E+00	6.36E-04	2.12E-03	0.00E+00	3.59E-04	1.33E-03	0.00E+00
1198	587815.9	4154405	0.004018	0.009536	0.00E+00	8.17E-03	9.65E-03	0.00E+00	6.51E-04	2.17E-03	0.00E+00	3.67E-04	1.36E-03	0.00E+00
1199	587823.6	4154400	0.004082	0.009687	0.00E+00	8.30E-03	9.81E-03	0.00E+00	6.61E-04	2.20E-03	0.00E+00	3.73E-04	1.38E-03	0.00E+00
1200	587783.1	4154440	0.002814	0.006679	0.00E+00	5.72E-03	6.76E-03	0.00E+00	4.56E-04	1.52E-03	0.00E+00	2.57E-04	9.51E-04	0.00E+00
1201	587790.8	4154435	0.002964	0.007035	0.00E+00	6.03E-03	7.12E-03	0.00E+00	4.80E-04	1.60E-03	0.00E+00	2.71E-04	1.00E-03	0.00E+00
1202	587798.5	4154429	0.003102	0.007363	0.00E+00	6.31E-03	7.45E-03	0.00E+00	5.02E-04	1.67E-03	0.00E+00	2.83E-04	1.05E-03	0.00E+00
1203	587806.2	4154424	0.003225	0.007654	0.00E+00	6.56E-03	7.75E-03	0.00E+00	5.22E-04	1.74E-03	0.00E+00	2.94E-04	1.09E-03	0.00E+00
1204	587813.9	4154419	0.003331	0.007906	0.00E+00	6.77E-03	8.00E-03	0.00E+00	5.40E-04	1.80E-03	0.00E+00	3.04E-04	1.13E-03	0.00E+00
1205	587821.6	4154413	0.003419	0.008114	0.00E+00	6.95E-03	8.21E-03	0.00E+00	5.54E-04	1.85E-03	0.00E+00	3.12E-04	1.16E-03	0.00E+00
1206	587829.3	4154408	0.003487	0.008275	0.00E+00	7.09E-03	8.38E-03	0.00E+00	5.65E-04	1.88E-03	0.00E+00	3.18E-04	1.18E-03	0.00E+00
1207	587788.7	4154448	0.002399	0.005693	0.00E+00	4.88E-03	5.76E-03	0.00E+00	3.89E-04	1.30E-03	0.00E+00	2.19E-04	8.11E-04	0.00E+00
1208	587796.4	4154443	0.002527	0.005998	0.00E+00	5.14E-03	6.07E-03	0.00E+00	4.09E-04	1.36E-03	0.00E+00	2.31E-04	8.54E-04	0.00E+00
1209	587804.1	4154438	0.002647	0.006282	0.00E+00	5.38E-03	6.36E-03	0.00E+00	4.29E-04	1.43E-03	0.00E+00	2.42E-04	8.95E-04	0.00E+00
1210	587794.3	4154456	0.002067	0.004905	0.00E+00	4.20E-03	4.97E-03	0.00E+00	3.35E-04	1.12E-03	0.00E+00	1.89E-04	6.99E-04	0.00E+00
1211	587802	4154451	0.002177	0.005166	0.00E+00	4.42E-03	5.23E-03	0.00E+00	3.53E-04	1.18E-03	0.00E+00	1.99E-04	7.36E-04	0.00E+00
1212	587809.7	4154446	0.002281	0.005413	0.00E+00	4.64E-03	5.48E-03	0.00E+00	3.69E-04	1.23E-03	0.00E+00	2.08E-04	7.71E-04	0.00E+00
1213	587800	4154465	0.001798	0.004267	0.00E+00	3.65E-03	4.32E-03	0.00E+00	2.91E-04	9.71E-04	0.00E+00	1.64E-04	6.08E-04	0.00E+00
1214	587807.7	4154459	0.001892	0.004491	0.00E+00	3.85E-03	4.55E-03	0.00E+00	3.06E-04	1.02E-03	0.00E+00	1.73E-04	6.40E-04	0.00E+00
1215	587815.4	4154454	0.001983	0.004706	0.00E+00	4.03E-03	4.76E-03	0.00E+00	3.21E-04	1.07E-03	0.00E+00	1.81E-04	6.70E-04	0.00E+00
1216	587838.5	4154438	0.002218	0.005263	0.00E+00	4.51E-03	5.33E-03	0.00E+00	3.59E-04	1.20E-03	0.00E+00	2.02E-04	7.50E-04	0.00E+00
1217	587846.2	4154433	0.002279	0.005409	0.00E+00	4.63E-03	5.48E-03	0.00E+00	3.69E-04	1.23E-03	0.00E+00	2.08E-04	7.71E-04	0.00E+00
1218	587805.6	4154473	0.001578	0.003744	0.00E+00	3.21E-03	3.79E-03	0.00E+00	2.56E-04	8.52E-04	0.00E+00	1.44E-04	5.33E-04	0.00E+00
1219	587813.3	4154468	0.001659	0.003937	0.00E+00	3.37E-03	3.99E-03	0.00E+00	2.69E-04	8.96E-04	0.00E+00	1.51E-04	5.61E-04	0.00E+00
1220	587821	4154462	0.001738	0.004125	0.00E+00	3.53E-03	4.17E-03	0.00E+00	2.81E-04	9.38E-04	0.00E+00	1.59E-04	5.88E-04	0.00E+00
1221	587844.1	4154447	0.001948	0.004623	0.00E+00	3.96E-03	4.68E-03	0.00E+00	3.15E-04	1.05E-03	0.00E+00	1.78E-04	6.58E-04	0.00E+00
1222	587851.8	4154441	0.002006	0.004759	0.00E+00	4.08E-03	4.82E-03	0.00E+00	3.25E-04	1.08E-03	0.00E+00	1.83E-04	6.78E-04	0.00E+00
1223	587811.3	4154481	0.001395	0.003311	0.00E+00	2.84E-03	3.35E-03	0.00E+00	2.26E-04	7.53E-04	0.00E+00	1.27E-04	4.72E-04	0.00E+00
1224	587819	4154476	0.001466	0.003478	0.00E+00	2.98E-03	3.52E-03	0.00E+00	2.37E-04	7.91E-04	0.00E+00	1.34E-04	4.95E-04	0.00E+00
1225	587826.7	4154471	0.001534	0.003641	0.00E+00	3.12E-03	3.69E-03	0.00E+00	2.48E-04	8.28E-04	0.00E+00	1.40E-04	5.19E-04	0.00E+00
1226	587849.8	4154455	0.001722	0.004086	0.00E+00	3.50E-03	4.14E-03	0.00E+00	2.79E-04	9.30E-04	0.00E+00	1.57E-04	5.82E-04	0.00E+00
1227	587857.5	4154450	0.001775	0.004213	0.00E+00	3.61E-03	4.26E-03	0.00E+00	2.87E-04	9.58E-04	0.00E+00	1.62E-04	6.00E-04	0.00E+00
1228	587816.9	4154489	0.001242	0.002947	0.00E+00	2.52E-03	2.98E-03	0.00E+00	2.01E-04	6.70E-04	0.00E+00	1.13E-04	4.20E-04	0.00E+00
1229	587824.6	4154484	0.001303	0.003093	0.00E+00	2.65E-03	3.13E-03	0.00E+00	2.11E-04	7.04E-04	0.00E+00	1.19E-04	4.41E-04	0.00E+00
1230	587832.3	4154479	0.001364	0.003236	0.00E+00	2.77E-03	3.28E-03	0.00E+00	2.21E-04	7.36E-04	0.00E+00	1.24E-04	4.61E-04	0.00E+00
1231	587855.4	4154463	0.001531	0.003634	0.00E+00	3.11E-03	3.68E-03	0.00E+00	2.48E-04	8.27E-04	0.00E+00	1.40E-04	5.18E-04	0.00E+00
1232	587863.1	4154458	0.00158	0.00375	0.00E+00	3.21E-03	3.80E-03	0.00E+00	2.56E-04	8.53E-04	0.00E+00	1.44E-04	5.34E-04	0.00E+00
1233	587822.5	4154498	0.001113	0.00264	0.00E+00	2.26E-03	2.67E-03	0.00E+00	1.80E-04	6.01E-04	0.00E+00	1.02E-04	3.76E-04	0.00E+00
1234	587830.2	4154492	0.001166	0.002767	0.00E+00	2.37E-03	2.80E-03	0.00E+00	1.89E-04	6.29E-04	0.00E+00	1.06E-04	3.94E-04	0.00E+00
1235	587837.9	4154487	0.001219	0.002893	0.00E+00	2.48E-03	2.93E-03	0.00E+00	1.97E-04	6.58E-04	0.00E+00	1.11E-04	4.12E-04	0.00E+00
1236	587861	4154471	0.001369	0.003249	0.00E+00	2.78E-03	3.29E-03	0.00E+00	2.22E-04	7.39E-04	0.00E+00	1.25E-04	4.63E-04	0.00E+00
1237	587868.7	4154466	0.001414	0.003355	0.00E+00	2.87E-03	3.40E-03	0.00E+00	2.29E-04	7.63E-04	0.00E+00	1.29E-04	4.78E-04	0.00E+00
1238	587828.2	4154506	0.001002	0.002379	0.00E+00	2.04E-03	2.41E-03	0.00E+00	1.62E-04	5.41E-04	0.00E+00	9.15E-05	3.39E-04	0.00E+00
1239	587835.9	4154501	0.001049	0.00249	0.00E+00	2.13E-03	2.52E-03	0.00E+00	1.70E-04	5.66E-04	0.00E+00	9.58E-05	3.55E-04	0.00E+00
1240	587843.6	4154495	0.001096	0.002601	0.00E+00	2.23E-03	2.63E-03	0.00E+00	1.78E-04	5.92E-04	0.00E+00	1.00E-04	3.70E-04	0.00E+00
1241	587866.7	4154480	0.00123	0.002919	0.00E+00	2.50E-03	2.95E-03	0.00E+00	1.99E-04	6.64E-04	0.00E+00	1.12E-04	4.16E-04	0.00E+00
1242	587874.4	4154474	0.001271	0.003015	0.00E+00	2.58E-03	3.05E-03	0.00E+00	2.06E-04	6.86E-04	0.00E+00	1.16E-04	4.30E-04	0.00E+00
1243	587833.8	4154514	0.000908	0.002154	0.00E+00	1.85E-03	2.18E-03	0.00E+00	1.47E-04	4.90E-04	0.00E+00	8.29E-05	3.07E-04	0.00E+00
1244	587841.5	4154509	0.000949	0.002252	0.00E+00	1.93E-03	2.28E-03	0.00E+00	1.54E-04	5.12E-04	0.00E+00	8.66E-05	3.21E-04	0.00E+00
1245	587849.2	4154504	0.00099	0.00235	0.00E+00	2.01E-03	2.38E-03	0.00E+00	1.60E-04	5.35E-04	0.00E+00	9.04E-05	3.35E-04	0.00E+00
1246	587872.3	4154488	0.00111	0.002635	0.00E+00	2.26E-03	2.67E-03	0.00E+00	1.80E-04	5.99E-04	0.00E+00	1.01E-04	3.75E-04	0.00E+00
1247	587880	4154483	0.001147	0.002723	0.00E+00	2.33E-03	2.76E-03	0.00E+00	1.86E-04	6.19E-04	0.00E+00	1.05E-04	3.88E-04	0.00E+00
1248	587839.5	4154522	0.000826	0.00196	0.00E+00	1.68E-03	1.98E-03	0.00E+00	1.34E-04	4.46E-04	0.00E+00	7.54E-05	2.79E-04	0.00E+00
1249	587847.2	4154517	0.000862	0.002047	0.00E+00	1.75E-03	2.07E-03	0.00E+00	1.40E-04	4.66E-04	0.00E+00	7.87E-05	2.92E-04	0.00E+00
1250	587854.9	4154512	0.000899	0.002133	0.00E+00	1.83E-03	2.16E-03	0.00E+00	1.46E-04	4.85E-04	0.00E+00	8.21E-05	3.04E-04	0.00E+00
1251	587878	4154496	0.001007	0.002389	0.00E+00	2.05E-03	2.42E-03	0.00E+00	1.63E-04	5.43E-04	0.00E+00	9.19E-05	3.40E-04	0.00E+00
1252	587885.7	4154491	0.00104	0.002469	0.00E+00	2.11E-03	2.50E-03	0.00E+00	1.68E-04	5.62E-04	0.00E+00	9.50E-05	3.52E-04	0.00E+00
1253	587845.1	4154531	0.000755	0.001791	0.00E+00	1.53E-03	1.81E-03	0.00E+00	1.22E-04	4.07E-04	0.00E+00	6.89E-05	2.55E-04	0.00E+00
1254	587852.8	4154525	0.000787	0.001868	0.00E+00	1.60E-03	1.89E-03	0.00E+00	1.27E-04	4.25E-04	0.00E+00	7.19E-05	2.66E-04	0.00E+00
1255	587860.5	4154520	0.00082	0.001945	0.00E+00	1.67E-03	1.97E-03	0.00E+00	1.33E-04	4.42E-04	0.00E+00	7.48E-05	2.77E-04	0.00E+00
1256	587883.6	4154504	0.000916	0.002174	0.00E+00	1.86E-03	2.20E-03	0.00E+00	1.48E-04	4.95E-04	0.00E+00	8.37E-05	3.10E-04	0.00E+00
1257	587891.3	4154499	0.000947	0.002247	0.00E+00	1.92E-03	2.27E-03	0.00E+00	1.53E-04	5.11E-04	0.00E+00	8.65E-05	3.20E-04	0.00E+00
1258	587850.7	4154539	0.000692	0.001643	0.00E+00	1.41E-03	1.66E-03	0.00E+00	1.12E-04	3.74E-04	0.00E+00	6.32E-05	2.34E-04	0.00E+00
1259	587858.4	4154534	0.000721	0.001711	0.00E+00	1.47E-03	1.73E-03	0.00E+00	1.17E-04	3.89E-04	0.00E+00	6.58E-05	2.44E-04	0.00E+00
1260	587866.1	4154528	0.00075	0.00178	0.00E+00	1.52E-03	1.80E-03	0.00E+00	1.21E-04	4.05E-04	0.00E+00	6.85E-05	2.54E-04	0.00E+00
1261	587889.2	4154513	0.000837	0.001987	0.00E+00	1.70E-03	2.01E-03	0.00E+00	1.36E-04	4.52E-04	0.00E+00	7.64E-05	2.83E-04	0.00E+00
1262	587897	4154507	0.000865	0.002053	0.00E+00	1.76E-03	2.08E-03	0.00E+00	1.40E-04	4.67E-04	0.00E+00	7.90E-05	2.92E-04	0.00E+00
1263	587856.4	4154547	0.000638	0.001513	0.00E+00	1.30E-03	1.53E-03	0.00E+00	1.03E-04	3.44E-04	0.00E+00	5.82E-05	2.16E-04	0.00E+00
1264	587864.1	4154542	0.000663	0.001574	0.00E+00	1.35E-03	1.59E-03	0.00E+00	1.07E-04	3.58E-04	0.00E+00	6.05E-05	2.24E-04	0.00E+00
1265	587871.8	4154537	0.000689	0.001635	0.00E+00	1.40E-03	1.66E-03	0.00E+00	1.12E-04	3.72E-04	0.00E+00	6.29E-05	2.33E-04	0.00E+00
1266	587894.9	4154521	0.000768	0.001822	0.00E+00	1.56E-03	1.84E-03	0.00E+00	1.24E-04	4.14E-04	0.00E+00	7.01E-05	2.59E-04	0.00E+00
1267	587902.6	4154516	0.000793	0.001882	0.00E+00	1.61E-03	1.90E-03	0.00E+00	1.28E-04	4.28E-04	0.00E+00	7.24E-05	2.68E-04	0.00E+00
1268	587862	4154555	0.000589	0.001398	0.00E+00	1.20E-03	1.41E-03	0.00E+00	9.54E-05	3.18E-04	0.00E+00	5.38E-05	1.99E-04	0.00E+00
1269	587869.7	4154550	0.000612	0.001452	0.00E+00	1.24E-03	1.47E-03	0.00E+00	9.91E-05	3.30E-04	0.00E+00	5.59E-05	2.07E-04	0.00E+00
1270	587877.4	4154545	0.000635	0.001508	0.00E+00	1.29E-03	1.53E-03	0.00E+00	1.03E-04	3.43E-04	0.00E+00	5.80E-05	2.15E-04	0.00E+00
1271	587900.5	4154529	0.000706	0.001676	0.00E+00	1.44E-03	1.70E-03	0.00E+00	1.14E-04	3.81E-04	0.00E+00	6.45E-05	2.39E-04	0.00E+00

1272	587908.2	4154524	0.000729	0.001731	0.00E+00	1.48E-03	1.75E-03	0.00E+00	1.18E-04	3.94E-04	0.00E+00	6.66E-05	2.47E-04	0.00E+00
1273	587867.7	4154564	0.000546	0.001295	0.00E+00	1.11E-03	1.31E-03	0.00E+00	8.84E-05	2.95E-04	0.00E+00	4.98E-05	1.85E-04	0.00E+00
1274	587875.4	4154558	0.000566	0.001344	0.00E+00	1.15E-03	1.36E-03	0.00E+00	9.17E-05	3.06E-04	0.00E+00	5.17E-05	1.91E-04	0.00E+00
1275	587883.1	4154553	0.000587	0.001394	0.00E+00	1.19E-03	1.41E-03	0.00E+00	9.51E-05	3.17E-04	0.00E+00	5.36E-05	1.99E-04	0.00E+00
1276	587906.2	4154537	0.000652	0.001546	0.00E+00	1.32E-03	1.57E-03	0.00E+00	1.06E-04	3.52E-04	0.00E+00	5.95E-05	2.20E-04	0.00E+00
1277	587913.9	4154532	0.000673	0.001597	0.00E+00	1.37E-03	1.62E-03	0.00E+00	1.09E-04	3.63E-04	0.00E+00	6.14E-05	2.27E-04	0.00E+00
1278	587873.3	4154572	0.000507	0.001204	0.00E+00	1.03E-03	1.22E-03	0.00E+00	8.22E-05	2.74E-04	0.00E+00	4.63E-05	1.71E-04	0.00E+00
1279	587881	4154567	0.000526	0.001248	0.00E+00	1.07E-03	1.26E-03	0.00E+00	8.52E-05	2.84E-04	0.00E+00	4.80E-05	1.78E-04	0.00E+00
1280	587888.7	4154561	0.000545	0.001293	0.00E+00	1.11E-03	1.31E-03	0.00E+00	8.82E-05	2.94E-04	0.00E+00	4.97E-05	1.84E-04	0.00E+00
1281	587911.8	4154546	0.000603	0.001431	0.00E+00	1.23E-03	1.45E-03	0.00E+00	9.77E-05	3.26E-04	0.00E+00	5.51E-05	2.04E-04	0.00E+00
1282	587919.5	4154540	0.000622	0.001477	0.00E+00	1.27E-03	1.50E-03	0.00E+00	1.01E-04	3.36E-04	0.00E+00	5.68E-05	2.10E-04	0.00E+00
1283	587878.9	4154580	0.000473	0.001122	0.00E+00	9.61E-04	1.14E-03	0.00E+00	7.66E-05	2.55E-04	0.00E+00	4.32E-05	1.60E-04	0.00E+00
1284	587886.6	4154575	0.00049	0.001162	0.00E+00	9.95E-04	1.18E-03	0.00E+00	7.93E-05	2.64E-04	0.00E+00	4.47E-05	1.65E-04	0.00E+00
1285	587894.3	4154570	0.000507	0.001203	0.00E+00	1.03E-03	1.22E-03	0.00E+00	8.21E-05	2.74E-04	0.00E+00	4.63E-05	1.71E-04	0.00E+00
1286	587917.5	4154554	0.00056	0.001328	0.00E+00	1.14E-03	1.34E-03	0.00E+00	9.06E-05	3.02E-04	0.00E+00	5.11E-05	1.89E-04	0.00E+00
1287	587925.2	4154549	0.000577	0.00137	0.00E+00	1.17E-03	1.39E-03	0.00E+00	9.35E-05	3.12E-04	0.00E+00	5.27E-05	1.95E-04	0.00E+00
1288	587884.6	4154588	0.000442	0.001048	0.00E+00	8.98E-04	1.06E-03	0.00E+00	7.15E-05	2.38E-04	0.00E+00	4.03E-05	1.49E-04	0.00E+00
1289	587892.3	4154583	0.000457	0.001084	0.00E+00	9.29E-04	1.10E-03	0.00E+00	7.40E-05	2.47E-04	0.00E+00	4.17E-05	1.54E-04	0.00E+00
1290	587900	4154578	0.000472	0.001121	0.00E+00	9.60E-04	1.13E-03	0.00E+00	7.65E-05	2.55E-04	0.00E+00	4.31E-05	1.60E-04	0.00E+00
1291	587923.1	4154562	0.000521	0.001236	0.00E+00	1.06E-03	1.25E-03	0.00E+00	8.43E-05	2.81E-04	0.00E+00	4.75E-05	1.76E-04	0.00E+00
1292	587930.8	4154557	0.000537	0.001274	0.00E+00	1.09E-03	1.29E-03	0.00E+00	8.70E-05	2.90E-04	0.00E+00	4.90E-05	1.81E-04	0.00E+00
1293	587890.2	4154597	0.000414	0.000982	0.00E+00	8.41E-04	9.94E-04	0.00E+00	6.70E-05	2.23E-04	0.00E+00	3.78E-05	1.40E-04	0.00E+00
1294	587897.9	4154591	0.000427	0.001015	0.00E+00	8.69E-04	1.03E-03	0.00E+00	6.92E-05	2.31E-04	0.00E+00	3.90E-05	1.45E-04	0.00E+00
1295	587905.6	4154586	0.000442	0.001048	0.00E+00	8.98E-04	1.06E-03	0.00E+00	7.15E-05	2.38E-04	0.00E+00	4.03E-05	1.49E-04	0.00E+00
1296	587928.7	4154570	0.000486	0.001152	0.00E+00	9.87E-04	1.17E-03	0.00E+00	7.86E-05	2.62E-04	0.00E+00	4.43E-05	1.64E-04	0.00E+00
1297	587936.4	4154565	0.0005	0.001188	0.00E+00	1.02E-03	1.20E-03	0.00E+00	8.11E-05	2.70E-04	0.00E+00	4.57E-05	1.69E-04	0.00E+00
1298	587895.9	4154605	0.000388	0.000921	0.00E+00	7.89E-04	9.33E-04	0.00E+00	6.29E-05	2.10E-04	0.00E+00	3.54E-05	1.31E-04	0.00E+00
1299	587903.6	4154600	0.000401	0.000951	0.00E+00	8.15E-04	9.63E-04	0.00E+00	6.49E-05	2.16E-04	0.00E+00	3.66E-05	1.35E-04	0.00E+00
1300	587911.3	4154594	0.000414	0.000982	0.00E+00	8.41E-04	9.94E-04	0.00E+00	6.70E-05	2.23E-04	0.00E+00	3.78E-05	1.40E-04	0.00E+00
1301	587934.4	4154579	0.000454	0.001077	0.00E+00	9.23E-04	1.09E-03	0.00E+00	7.35E-05	2.45E-04	0.00E+00	4.14E-05	1.53E-04	0.00E+00
1302	587942.1	4154573	0.000468	0.00111	0.00E+00	9.50E-04	1.12E-03	0.00E+00	7.57E-05	2.52E-04	0.00E+00	4.27E-05	1.58E-04	0.00E+00
1303	587901.5	4154613	0.000365	0.000867	0.00E+00	7.42E-04	8.77E-04	0.00E+00	5.91E-05	1.97E-04	0.00E+00	3.33E-05	1.23E-04	0.00E+00
1304	587909.2	4154608	0.000377	0.000894	0.00E+00	7.66E-04	9.05E-04	0.00E+00	6.10E-05	2.03E-04	0.00E+00	3.44E-05	1.27E-04	0.00E+00
1305	587916.9	4154603	0.000388	0.000922	0.00E+00	7.90E-04	9.33E-04	0.00E+00	6.29E-05	2.10E-04	0.00E+00	3.55E-05	1.31E-04	0.00E+00
1306	587940	4154587	0.000425	0.001009	0.00E+00	8.64E-04	1.02E-03	0.00E+00	6.89E-05	2.30E-04	0.00E+00	3.88E-05	1.44E-04	0.00E+00
1307	587947.7	4154582	0.000438	0.001039	0.00E+00	8.90E-04	1.05E-03	0.00E+00	7.09E-05	2.36E-04	0.00E+00	4.00E-05	1.48E-04	0.00E+00
1308	587907.1	4154621	0.000344	0.000817	0.00E+00	6.99E-04	8.27E-04	0.00E+00	5.57E-05	1.86E-04	0.00E+00	3.14E-05	1.16E-04	0.00E+00
1309	587914.8	4154616	0.000355	0.000842	0.00E+00	7.21E-04	8.52E-04	0.00E+00	5.74E-05	1.91E-04	0.00E+00	3.24E-05	1.20E-04	0.00E+00
1310	587922.5	4154611	0.000365	0.000867	0.00E+00	7.43E-04	8.78E-04	0.00E+00	5.92E-05	1.97E-04	0.00E+00	3.34E-05	1.24E-04	0.00E+00
1311	587945.7	4154595	0.000399	0.000947	0.00E+00	8.11E-04	9.59E-04	0.00E+00	6.46E-05	2.15E-04	0.00E+00	3.64E-05	1.35E-04	0.00E+00
1312	587953.4	4154590	0.000411	0.000975	0.00E+00	8.35E-04	9.87E-04	0.00E+00	6.65E-05	2.22E-04	0.00E+00	3.75E-05	1.39E-04	0.00E+00
1313	587842.6	4154372	0.004912	0.011658	0.00E+00	9.98E-03	1.18E-02	0.00E+00	7.96E-04	2.65E-03	0.00E+00	4.49E-04	1.66E-03	0.00E+00
1314	587833.1	4154386	0.004554	0.010807	0.00E+00	9.26E-03	1.09E-02	0.00E+00	7.38E-04	2.46E-03	0.00E+00	4.16E-04	1.54E-03	0.00E+00
1315	587861.9	4154359	0.004494	0.010664	0.00E+00	9.13E-03	1.08E-02	0.00E+00	7.28E-04	2.43E-03	0.00E+00	4.10E-04	1.52E-03	0.00E+00
1316	587852.6	4154373	0.004355	0.010335	0.00E+00	8.85E-03	1.05E-02	0.00E+00	7.05E-04	2.35E-03	0.00E+00	3.98E-04	1.47E-03	0.00E+00
1317	587843.3	4154387	0.004077	0.009675	0.00E+00	8.29E-03	9.79E-03	0.00E+00	6.60E-04	2.20E-03	0.00E+00	3.72E-04	1.38E-03	0.00E+00
1318	587874.7	4154345	0.004324	0.010263	0.00E+00	8.79E-03	1.04E-02	0.00E+00	7.00E-04	2.33E-03	0.00E+00	3.95E-04	1.46E-03	0.00E+00
1319	587871.2	4154362	0.003999	0.00949	0.00E+00	8.13E-03	9.61E-03	0.00E+00	6.48E-04	2.16E-03	0.00E+00	3.65E-04	1.35E-03	0.00E+00
1320	587866	4154370	0.003943	0.009357	0.00E+00	8.01E-03	9.47E-03	0.00E+00	6.39E-04	2.13E-03	0.00E+00	3.60E-04	1.33E-03	0.00E+00
1321	587860.8	4154378	0.003854	0.009146	0.00E+00	7.83E-03	9.26E-03	0.00E+00	6.24E-04	2.08E-03	0.00E+00	3.52E-04	1.30E-03	0.00E+00
1322	587855.6	4154385	0.003733	0.00886	0.00E+00	7.59E-03	8.97E-03	0.00E+00	6.05E-04	2.02E-03	0.00E+00	3.41E-04	1.26E-03	0.00E+00
1323	587850.5	4154393	0.003579	0.008493	0.00E+00	7.27E-03	8.60E-03	0.00E+00	5.80E-04	1.93E-03	0.00E+00	3.27E-04	1.21E-03	0.00E+00
1324	587845.3	4154401	0.003401	0.008072	0.00E+00	6.91E-03	8.17E-03	0.00E+00	5.51E-04	1.84E-03	0.00E+00	3.11E-04	1.15E-03	0.00E+00
1325	587840.1	4154409	0.003207	0.007612	0.00E+00	6.52E-03	7.70E-03	0.00E+00	5.19E-04	1.73E-03	0.00E+00	2.93E-04	1.08E-03	0.00E+00
1326	587884.6	4154347	0.003864	0.009171	0.00E+00	7.85E-03	9.28E-03	0.00E+00	6.26E-04	2.09E-03	0.00E+00	3.53E-04	1.31E-03	0.00E+00
1327	587881.1	4154364	0.003587	0.008514	0.00E+00	7.29E-03	8.62E-03	0.00E+00	5.81E-04	1.94E-03	0.00E+00	3.28E-04	1.21E-03	0.00E+00
1328	587876	4154372	0.00354	0.008401	0.00E+00	7.20E-03	8.50E-03	0.00E+00	5.73E-04	1.91E-03	0.00E+00	3.23E-04	1.20E-03	0.00E+00
1329	587871	4154379	0.003466	0.008225	0.00E+00	7.04E-03	8.32E-03	0.00E+00	5.61E-04	1.87E-03	0.00E+00	3.16E-04	1.17E-03	0.00E+00
1330	587865.9	4154387	0.003369	0.007995	0.00E+00	6.85E-03	8.09E-03	0.00E+00	5.46E-04	1.82E-03	0.00E+00	3.08E-04	1.14E-03	0.00E+00
1331	587860.8	4154394	0.003252	0.007717	0.00E+00	6.61E-03	7.81E-03	0.00E+00	5.27E-04	1.76E-03	0.00E+00	2.97E-04	1.10E-03	0.00E+00
1332	587894.4	4154350	0.003476	0.00825	0.00E+00	7.07E-03	8.35E-03	0.00E+00	5.63E-04	1.88E-03	0.00E+00	3.17E-04	1.18E-03	0.00E+00
1333	587891	4154366	0.003239	0.007686	0.00E+00	6.58E-03	7.78E-03	0.00E+00	5.24E-04	1.75E-03	0.00E+00	2.96E-04	1.09E-03	0.00E+00
1334	587886	4154373	0.003199	0.007591	0.00E+00	6.50E-03	7.68E-03	0.00E+00	5.18E-04	1.73E-03	0.00E+00	2.92E-04	1.08E-03	0.00E+00
1335	587902.7	4154343	0.003329	0.0079	0.00E+00	6.77E-03	8.00E-03	0.00E+00	5.39E-04	1.80E-03	0.00E+00	3.04E-04	1.13E-03	0.00E+00
1336	587900.8	4154368	0.002939	0.006975	0.00E+00	5.97E-03	7.06E-03	0.00E+00	4.76E-04	1.59E-03	0.00E+00	2.68E-04	9.93E-04	0.00E+00
1337	587871.4	4154412	0.002506	0.005946	0.00E+00	5.09E-03	6.02E-03	0.00E+00	4.06E-04	1.35E-03	0.00E+00	2.29E-04	8.47E-04	0.00E+00
1338	587861.6	4154427	0.002263	0.005371	0.00E+00	4.60E-03	5.44E-03	0.00E+00	3.67E-04	1.22E-03	0.00E+00	2.07E-04	7.65E-04	0.00E+00
1339	587837.9	4154184	0.002785	0.006608	0.00E+00	5.66E-03	6.69E-03	0.00E+00	4.51E-04	1.50E-03	0.00E+00	2.54E-04	9.41E-04	0.00E+00
1340	587912.2	4154344	0.003048	0.007233	0.00E+00	6.19E-03	7.32E-03	0.00E+00	4.94E-04	1.65E-03	0.00E+00	2.78E-04	1.03E-03	0.00E+00
1341	587913.9	4154353	0.002874	0.00682	0.00E+00	5.84E-03	6.90E-03	0.00E+00	4.65E-04	1.55E-03	0.00E+00	2.62E-04	9.71E-04	0.00E+00
1342	587910.3	4154370	0.002678	0.006355	0.00E+00	5.44E-03	6.43E-03	0.00E+00	4.34E-04	1.45E-03	0.00E+00	2.44E-04	9.05E-04	0.00E+00
1343	587905	4154378	0.002644	0.006275	0.00E+00	5.37E-03	6.35E-03	0.00E+00	4.28E-04	1.43E-03	0.00E+00	2.41E-04	8.94E-04	0.00E+00
1344	587883.9	4154410	0.002358	0.005597	0.00E+00	4.79E-03	5.67E-03	0.00E+00	3.82E-04	1.27E-03	0.00E+00	2.15E-04	7.97E-04	0.00E+00
1345	587878.6	4154418	0.002253	0.005347	0.00E+00	4.58E-03	5.41E-03	0.00E+00	3.65E-04	1.22E-03	0.00E+00	2.06E-04	7.62E-04	0.00E+00
1346	587873.3	4154426	0.00214	0.005078	0.00E+00	4.35E-03	5.14E-03	0.00E+00	3.47E-04	1.16E-03	0.00E+00	1.95E-04	7.23E-04	0.00E+00
1347	587868	4154434	0.00202	0.004795	0.00E+00	4.11E-03	4.85E-03	0.00E+00	3.27E-04	1.09E-03	0.00E+00	1.84E-04	6.83E-04	0.00E+00
1348	587862.7	4154442	0.001898	0.004505	0.00E+00	3.86E-03	4.56E-03	0.00E+00	3.07E-04	1.02E-03	0.00E+00	1.73E-04	6.42E-04	0.00E+00
1349	587851.4	4154186	0.002739	0.006499	0.00E+00	5.57E-03	6.58E-03	0.00E+00	4.44E-04	1.48E-03	0.00E+00	2.50E-04	9.26E-04	0.00E+00
1350	587846.4	4154178	0.002573	0.006105	0.00E+00	5.23E-03	6.18E-03	0.00E+00	4.17E-04	1.39E-03	0.00E+00	2.35E-04	8.70E-04	0.00E+00
1351	587920.1	4154372	0.002453	0.00582	0.00E+00	4.99E-03	5.89E-03	0.00E+00	3.97E-04	1.32E-03	0.00E+00	2.24E-04	8.29E-04	0.00E+00
1352	587915	4154380	0.002424	0.005752	0.00E+00	4.93E-03	5.82E-03	0.00E+00	3.93E-04	1.31E-03	0.00E+00	2.21E-04	8.19E-04	0.00E+00
1353	587909.8	4154388	0.002381	0.00565	0.00E+00	4.84E-03	5.72E-03	0.00E+00	3.86E-04	1.29E-03	0.00E+00	2.17E-04	8.05E-04	0.00E+00
1354	587904.6	4154396	0.002325	0.005517	0.00E+00	4.73E-03	5.58E-03	0.00E+00	3.77E-04	1.26E-03	0.00E+00	2.12E-04	7.86E-04	0.00E+00
1355	587894.2	4154411	0.002181	0.005175	0.00E+00	4.43E-03	5.24E-03	0.00E+00	3.53E-04	1.18E-03	0.00E+00	1.99E-04	7.37E-04	0.00E+00
1356	587889	4154419	0.002096	0.004974	0.00E+00	4.26E-03	5.04E-03	0.00E+00	3.39E-04	1.13E-03	0.00E+00	1.91E-04	7.09E-04	0.00E+00
1357	587883.8	4154427	0.002	0.004747	0.00E+00	4.07E-03	4.80E-03	0.00E+00	3.24E-04	1.08E-03	0.00E+00	1.83E-04	6.76E-04	0.00E+00
1358	587878.7	4154434	0.001899	0.004506	0.00E+00	3.86E-03	4.56E-03	0.00E+00	3.07E-04	1.02E-03	0.00E+00	1.73E-04	6.42E-04	0.00E+00
1359	587873.5	4154442	0.001793	0.004256	0.00E+00	3.65E-03	4.31E-03	0.00E+00	2.90E-04	9.68E-04	0.00E+00	1.64E-04	6.06E-04	0.00E+00
1360	587868.3	4154450	0.001687	0.004003	0.00E+00	3.43E-03	4.05E-03	0.00E+00	2.73E-04	9.10E-04	0.00E+00	1.54E-04	5.70E-04	0.00E+00
1361	587875.2	4154206	0.002942	0.006981	0.00E+00	5.98E-03	7.07E-03	0.00E+00	4.76E-04	1.59E-03	0.00E+00	2.69E-04	9.94E-04	0.00E+00
1362	587870.1	4154197	0.002813	0.006675	0.00E+00	5.72E-03	6.76E-03	0.00E+00	4.56E-04	1.52E-03	0.00E+00	2.57E-04	9.51E-04	0.00E+00

1363	587854.8	4154173	0.002387	0.005665	0.00E+00	4.85E-03	5.73E-03	0.00E+00	3.87E-04	1.29E-03	0.00E+00	2.18E-04	8.07E-04	0.00E+00
1364	587930	4154374	0.002255	0.005352	0.00E+00	4.58E-03	5.42E-03	0.00E+00	3.65E-04	1.22E-03	0.00E+00	2.06E-04	7.62E-04	0.00E+00
1365	587924.9	4154382	0.00223	0.005293	0.00E+00	4.53E-03	5.36E-03	0.00E+00	3.61E-04	1.20E-03	0.00E+00	2.04E-04	7.54E-04	0.00E+00
1366	587919.8	4154390	0.002194	0.005206	0.00E+00	4.46E-03	5.27E-03	0.00E+00	3.55E-04	1.18E-03	0.00E+00	2.00E-04	7.42E-04	0.00E+00
1367	587914.7	4154397	0.002146	0.005094	0.00E+00	4.36E-03	5.16E-03	0.00E+00	3.48E-04	1.16E-03	0.00E+00	1.96E-04	7.26E-04	0.00E+00
1368	587909.6	4154405	0.002089	0.004956	0.00E+00	4.25E-03	5.02E-03	0.00E+00	3.38E-04	1.13E-03	0.00E+00	1.91E-04	7.06E-04	0.00E+00
1369	587899.4	4154420	0.001949	0.004625	0.00E+00	3.96E-03	4.68E-03	0.00E+00	3.16E-04	1.05E-03	0.00E+00	1.78E-04	6.59E-04	0.00E+00
1370	587894.3	4154428	0.001871	0.00444	0.00E+00	3.80E-03	4.49E-03	0.00E+00	3.03E-04	1.01E-03	0.00E+00	1.71E-04	6.32E-04	0.00E+00
1371	587889.2	4154435	0.001784	0.004233	0.00E+00	3.63E-03	4.29E-03	0.00E+00	2.89E-04	9.63E-04	0.00E+00	1.63E-04	6.03E-04	0.00E+00
1372	587884.1	4154443	0.001693	0.004018	0.00E+00	3.44E-03	4.07E-03	0.00E+00	2.74E-04	9.14E-04	0.00E+00	1.55E-04	5.72E-04	0.00E+00
1373	587879	4154451	0.0016	0.003797	0.00E+00	3.25E-03	3.84E-03	0.00E+00	2.59E-04	8.64E-04	0.00E+00	1.46E-04	5.41E-04	0.00E+00
1374	587873.9	4154458	0.001506	0.003575	0.00E+00	3.06E-03	3.62E-03	0.00E+00	2.44E-04	8.13E-04	0.00E+00	1.38E-04	5.09E-04	0.00E+00
1375	587888.8	4154208	0.002808	0.006664	0.00E+00	5.71E-03	6.75E-03	0.00E+00	4.55E-04	1.52E-03	0.00E+00	2.56E-04	9.49E-04	0.00E+00
1376	587883.7	4154200	0.002707	0.006424	0.00E+00	5.50E-03	6.50E-03	0.00E+00	4.38E-04	1.46E-03	0.00E+00	2.47E-04	9.15E-04	0.00E+00
1377	587878.6	4154192	0.002594	0.006155	0.00E+00	5.27E-03	6.23E-03	0.00E+00	4.20E-04	1.40E-03	0.00E+00	2.37E-04	8.77E-04	0.00E+00
1378	587873.5	4154184	0.002472	0.005868	0.00E+00	5.03E-03	5.94E-03	0.00E+00	4.00E-04	1.33E-03	0.00E+00	2.26E-04	8.36E-04	0.00E+00
1379	587934.8	4154384	0.002059	0.004887	0.00E+00	4.19E-03	4.95E-03	0.00E+00	3.34E-04	1.11E-03	0.00E+00	1.88E-04	6.96E-04	0.00E+00
1380	587929.8	4154391	0.002028	0.004813	0.00E+00	4.12E-03	4.87E-03	0.00E+00	3.28E-04	1.09E-03	0.00E+00	1.85E-04	6.86E-04	0.00E+00
1381	587924.8	4154399	0.001987	0.004716	0.00E+00	4.04E-03	4.77E-03	0.00E+00	3.22E-04	1.07E-03	0.00E+00	1.81E-04	6.72E-04	0.00E+00
1382	587919.7	4154406	0.001938	0.004599	0.00E+00	3.94E-03	4.66E-03	0.00E+00	3.14E-04	1.05E-03	0.00E+00	1.77E-04	6.55E-04	0.00E+00
1383	587914.7	4154414	0.001881	0.004463	0.00E+00	3.82E-03	4.52E-03	0.00E+00	3.05E-04	1.02E-03	0.00E+00	1.72E-04	6.36E-04	0.00E+00
1384	587904.6	4154429	0.001751	0.004155	0.00E+00	3.56E-03	4.21E-03	0.00E+00	2.84E-04	9.45E-04	0.00E+00	1.60E-04	5.92E-04	0.00E+00
1385	587899.6	4154437	0.001677	0.003979	0.00E+00	3.41E-03	4.03E-03	0.00E+00	2.72E-04	9.05E-04	0.00E+00	1.53E-04	5.67E-04	0.00E+00
1386	587894.5	4154444	0.001598	0.003792	0.00E+00	3.25E-03	3.84E-03	0.00E+00	2.59E-04	8.63E-04	0.00E+00	1.46E-04	5.40E-04	0.00E+00
1387	587889.5	4154452	0.001517	0.003599	0.00E+00	3.08E-03	3.64E-03	0.00E+00	2.46E-04	8.19E-04	0.00E+00	1.38E-04	5.13E-04	0.00E+00
1388	587884.5	4154459	0.001434	0.003404	0.00E+00	2.92E-03	3.45E-03	0.00E+00	2.32E-04	7.74E-04	0.00E+00	1.31E-04	4.85E-04	0.00E+00
1389	587879.4	4154467	0.001352	0.003208	0.00E+00	2.75E-03	3.25E-03	0.00E+00	2.19E-04	7.30E-04	0.00E+00	1.23E-04	4.57E-04	0.00E+00
1390	587902.3	4154211	0.002668	0.006331	0.00E+00	5.42E-03	6.41E-03	0.00E+00	4.32E-04	1.44E-03	0.00E+00	2.44E-04	9.02E-04	0.00E+00
1391	587897.2	4154203	0.002591	0.006148	0.00E+00	5.27E-03	6.22E-03	0.00E+00	4.20E-04	1.40E-03	0.00E+00	2.37E-04	8.76E-04	0.00E+00
1392	587892.1	4154195	0.002501	0.005934	0.00E+00	5.08E-03	6.01E-03	0.00E+00	4.05E-04	1.35E-03	0.00E+00	2.28E-04	8.45E-04	0.00E+00
1393	587887.1	4154187	0.002401	0.005697	0.00E+00	4.88E-03	5.77E-03	0.00E+00	3.89E-04	1.30E-03	0.00E+00	2.19E-04	8.12E-04	0.00E+00
1394	587882	4154179	0.002294	0.005444	0.00E+00	4.66E-03	5.51E-03	0.00E+00	3.71E-04	1.24E-03	0.00E+00	2.09E-04	7.75E-04	0.00E+00
1395	587876.9	4154171	0.002184	0.005184	0.00E+00	4.44E-03	5.25E-03	0.00E+00	3.54E-04	1.18E-03	0.00E+00	1.99E-04	7.38E-04	0.00E+00
1396	587939.8	4154393	0.00188	0.004462	0.00E+00	3.82E-03	4.52E-03	0.00E+00	3.04E-04	1.01E-03	0.00E+00	1.72E-04	6.36E-04	0.00E+00
1397	587929.8	4154408	0.001803	0.004279	0.00E+00	3.66E-03	4.33E-03	0.00E+00	2.92E-04	9.73E-04	0.00E+00	1.65E-04	6.09E-04	0.00E+00
1398	587924.8	4154415	0.001754	0.004161	0.00E+00	3.56E-03	4.21E-03	0.00E+00	2.84E-04	9.47E-04	0.00E+00	1.60E-04	5.93E-04	0.00E+00
1399	587919.8	4154423	0.001699	0.004032	0.00E+00	3.45E-03	4.08E-03	0.00E+00	2.75E-04	9.17E-04	0.00E+00	1.55E-04	5.74E-04	0.00E+00
1400	587909.9	4154438	0.001577	0.003743	0.00E+00	3.21E-03	3.79E-03	0.00E+00	2.55E-04	8.52E-04	0.00E+00	1.44E-04	5.33E-04	0.00E+00
1401	587899.9	4154453	0.001437	0.003411	0.00E+00	2.92E-03	3.45E-03	0.00E+00	2.33E-04	7.76E-04	0.00E+00	1.31E-04	4.86E-04	0.00E+00
1402	587895	4154460	0.001365	0.003238	0.00E+00	2.77E-03	3.28E-03	0.00E+00	2.21E-04	7.37E-04	0.00E+00	1.25E-04	4.61E-04	0.00E+00
1403	587885	4154475	0.001219	0.002892	0.00E+00	2.48E-03	2.93E-03	0.00E+00	1.97E-04	6.58E-04	0.00E+00	1.11E-04	4.12E-04	0.00E+00
1404	587915.9	4154214	0.002523	0.005988	0.00E+00	5.13E-03	6.06E-03	0.00E+00	4.09E-04	1.36E-03	0.00E+00	2.30E-04	8.53E-04	0.00E+00
1405	587910.8	4154206	0.002468	0.005856	0.00E+00	5.02E-03	5.93E-03	0.00E+00	4.00E-04	1.33E-03	0.00E+00	2.25E-04	8.34E-04	0.00E+00
1406	587905.7	4154198	0.002398	0.005692	0.00E+00	4.88E-03	5.76E-03	0.00E+00	3.88E-04	1.29E-03	0.00E+00	2.19E-04	8.11E-04	0.00E+00
1407	587900.6	4154190	0.002318	0.005501	0.00E+00	4.71E-03	5.57E-03	0.00E+00	3.75E-04	1.25E-03	0.00E+00	2.12E-04	7.84E-04	0.00E+00
1408	587895.5	4154182	0.00223	0.005291	0.00E+00	4.53E-03	5.36E-03	0.00E+00	3.61E-04	1.20E-03	0.00E+00	2.04E-04	7.54E-04	0.00E+00
1409	587890.5	4154173	0.002135	0.005068	0.00E+00	4.34E-03	5.13E-03	0.00E+00	3.46E-04	1.15E-03	0.00E+00	1.95E-04	7.22E-04	0.00E+00
1410	587885.4	4154165	0.002039	0.004838	0.00E+00	4.14E-03	4.90E-03	0.00E+00	3.30E-04	1.10E-03	0.00E+00	1.86E-04	6.89E-04	0.00E+00
1411	587880.3	4154157	0.001941	0.004606	0.00E+00	3.94E-03	4.66E-03	0.00E+00	3.14E-04	1.05E-03	0.00E+00	1.77E-04	6.56E-04	0.00E+00
1412	587943.5	4154404	0.001709	0.004055	0.00E+00	3.47E-03	4.10E-03	0.00E+00	2.77E-04	9.22E-04	0.00E+00	1.56E-04	5.78E-04	0.00E+00
1413	587938.2	4154412	0.001668	0.003957	0.00E+00	3.39E-03	4.01E-03	0.00E+00	2.70E-04	9.00E-04	0.00E+00	1.52E-04	5.64E-04	0.00E+00
1414	587933	4154420	0.00162	0.003844	0.00E+00	3.29E-03	3.89E-03	0.00E+00	2.62E-04	8.74E-04	0.00E+00	1.48E-04	5.47E-04	0.00E+00
1415	587927.7	4154428	0.001567	0.003718	0.00E+00	3.18E-03	3.76E-03	0.00E+00	2.54E-04	8.46E-04	0.00E+00	1.43E-04	5.30E-04	0.00E+00
1416	587917.2	4154444	0.001449	0.003439	0.00E+00	2.95E-03	3.48E-03	0.00E+00	2.35E-04	7.82E-04	0.00E+00	1.32E-04	4.90E-04	0.00E+00
1417	587911.9	4154451	0.001383	0.003283	0.00E+00	2.81E-03	3.32E-03	0.00E+00	2.24E-04	7.47E-04	0.00E+00	1.26E-04	4.68E-04	0.00E+00
1418	587906.7	4154459	0.001315	0.003121	0.00E+00	2.67E-03	3.16E-03	0.00E+00	2.13E-04	7.10E-04	0.00E+00	1.20E-04	4.45E-04	0.00E+00
1419	587901.4	4154467	0.001246	0.002957	0.00E+00	2.53E-03	2.99E-03	0.00E+00	2.02E-04	6.73E-04	0.00E+00	1.14E-04	4.21E-04	0.00E+00
1420	587896.2	4154475	0.001176	0.002792	0.00E+00	2.39E-03	2.83E-03	0.00E+00	1.91E-04	6.35E-04	0.00E+00	1.07E-04	3.98E-04	0.00E+00
1421	587890.9	4154483	0.001108	0.002629	0.00E+00	2.25E-03	2.66E-03	0.00E+00	1.79E-04	5.98E-04	0.00E+00	1.01E-04	3.74E-04	0.00E+00
1422	587924.4	4154209	0.002341	0.005556	0.00E+00	4.76E-03	5.62E-03	0.00E+00	3.79E-04	1.26E-03	0.00E+00	2.14E-04	7.91E-04	0.00E+00
1423	587919.3	4154201	0.002291	0.005436	0.00E+00	4.66E-03	5.50E-03	0.00E+00	3.71E-04	1.24E-03	0.00E+00	2.09E-04	7.74E-04	0.00E+00
1424	587914.2	4154193	0.002228	0.005288	0.00E+00	4.53E-03	5.35E-03	0.00E+00	3.61E-04	1.20E-03	0.00E+00	2.03E-04	7.53E-04	0.00E+00
1425	587909.1	4154184	0.002156	0.005117	0.00E+00	4.38E-03	5.18E-03	0.00E+00	3.49E-04	1.16E-03	0.00E+00	1.97E-04	7.29E-04	0.00E+00
1426	587904	4154176	0.002077	0.00493	0.00E+00	4.22E-03	4.99E-03	0.00E+00	3.36E-04	1.12E-03	0.00E+00	1.90E-04	7.02E-04	0.00E+00
1427	587898.9	4154168	0.001994	0.004732	0.00E+00	4.05E-03	4.79E-03	0.00E+00	3.23E-04	1.08E-03	0.00E+00	1.82E-04	6.74E-04	0.00E+00
1428	587893.8	4154160	0.001908	0.004527	0.00E+00	3.88E-03	4.58E-03	0.00E+00	3.09E-04	1.03E-03	0.00E+00	1.74E-04	6.45E-04	0.00E+00
1429	587948.3	4154414	0.00156	0.003702	0.00E+00	3.17E-03	3.75E-03	0.00E+00	2.53E-04	8.42E-04	0.00E+00	1.42E-04	5.27E-04	0.00E+00
1430	587943.2	4154421	0.001519	0.003604	0.00E+00	3.09E-03	3.65E-03	0.00E+00	2.46E-04	8.20E-04	0.00E+00	1.39E-04	5.13E-04	0.00E+00
1431	587938	4154429	0.001472	0.003494	0.00E+00	2.99E-03	3.54E-03	0.00E+00	2.38E-04	7.95E-04	0.00E+00	1.34E-04	4.98E-04	0.00E+00
1432	587932.8	4154437	0.001421	0.003372	0.00E+00	2.89E-03	3.41E-03	0.00E+00	2.30E-04	7.67E-04	0.00E+00	1.30E-04	4.80E-04	0.00E+00
1433	587922.4	4154452	0.001313	0.003115	0.00E+00	2.67E-03	3.15E-03	0.00E+00	2.13E-04	7.09E-04	0.00E+00	1.20E-04	4.44E-04	0.00E+00
1434	587917.2	4154460	0.001253	0.002973	0.00E+00	2.55E-03	3.01E-03	0.00E+00	2.03E-04	6.76E-04	0.00E+00	1.14E-04	4.23E-04	0.00E+00
1435	587912	4154468	0.001191	0.002827	0.00E+00	2.42E-03	2.86E-03	0.00E+00	1.93E-04	6.43E-04	0.00E+00	1.09E-04	4.03E-04	0.00E+00
1436	587906.9	4154476	0.001129	0.002679	0.00E+00	2.29E-03	2.71E-03	0.00E+00	1.83E-04	6.10E-04	0.00E+00	1.03E-04	3.82E-04	0.00E+00
1437	587901.7	4154484	0.001067	0.002533	0.00E+00	2.17E-03	2.56E-03	0.00E+00	1.73E-04	5.76E-04	0.00E+00	9.74E-05	3.61E-04	0.00E+00
1438	587896.5	4154491	0.001006	0.002388	0.00E+00	2.05E-03	2.42E-03	0.00E+00	1.63E-04	5.43E-04	0.00E+00	9.19E-05	3.40E-04	0.00E+00
1439	587932.8	4154203	0.002179	0.005172	0.00E+00	4.43E-03	5.23E-03	0.00E+00	3.53E-04	1.18E-03	0.00E+00	1.99E-04	7.37E-04	0.00E+00
1440	587927.8	4154195	0.002133	0.005061	0.00E+00	4.33E-03	5.12E-03	0.00E+00	3.45E-04	1.15E-03	0.00E+00	1.95E-04	7.21E-04	0.00E+00
1441	587922.7	4154187	0.002076	0.004927	0.00E+00	4.22E-03	4.99E-03	0.00E+00	3.36E-04	1.12E-03	0.00E+00	1.90E-04	7.02E-04	0.00E+00
1442	587917.6	4154179	0.002012	0.004774	0.00E+00	4.09E-03	4.83E-03	0.00E+00	3.26E-04	1.09E-03	0.00E+00	1.84E-04	6.80E-04	0.00E+00
1443	587912.5	4154171	0.001941	0.004606	0.00E+00	3.95E-03	4.66E-03	0.00E+00	3.14E-04	1.05E-03	0.00E+00	1.77E-04	6.56E-04	0.00E+00
1444	587907.4	4154163	0.001867	0.00443	0.00E+00	3.79E-03	4.48E-03	0.00E+00	3.02E-04	1.01E-03	0.00E+00	1.70E-04	6.31E-04	0.00E+00
1445	587902.3	4154155	0.001789	0.004246	0.00E+00	3.64E-03	4.30E-03	0.00E+00	2.90E-04	9.66E-04	0.00E+00	1.63E-04	6.05E-04	0.00E+00
1446	587953.3	4154423	0.001426	0.003385	0.00E+00	2.90E-03	3.43E-03	0.00E+00	2.31E-04	7.70E-04	0.00E+00	1.30E-04	4.82E-04	0.00E+00
1447	587948.2	4154431	0.001386	0.003288	0.00E+00	2.82E-03	3.33E-03	0.00E+00	2.24E-04	7.48E-04	0.00E+00	1.27E-04	4.68E-04	0.00E+00
1448	587943.1	4154438	0.001341	0.003182	0.00E+00	2.73E-03	3.22E-03	0.00E+00	2.17E-04	7.24E-04	0.00E+00	1.22E-04	4.53E-04	0.00E+00
1449	587937.9	4154446	0.001293	0.003068	0.00E+00	2.63E-03	3.11E-03	0.00E+00	2.09E-04	6.98E-04	0.00E+00	1.18E-04	4.37E-04	0.00E+00
1450	587927.7	4154461	0.001193	0.00283	0.00E+00	2.42E-03	2.86E-03	0.00E+00	1.93E-04	6.44E-04	0.00E+00	1.09E-04	4.03E-04	0.00E+00
1451	587922.6	4154469	0.001138	0.002701	0.00E+00	2.31E-03	2.73E-03	0.00E+00	1.84E-04	6.14E-04	0.00E+00	1.04E-04	3.85E-04	0.00E+00
1452	587917.4	4154477	0.001083	0.002569	0.00E+00	2.20E-03	2.60E-03	0.00E+00	1.75E-04	5.84E-04	0.00E+00	9.88E-05	3.66E-04	0.00E+00
1453	587912.3	4154484	0.001027	0.002437	0.00E+00	2.09E-03	2.47E-03	0.00E+00	1.66E-04	5.54E-04	0.00E+00	9.38E-05	3.47E-04	0.00E+00

1454	587907.2	4154492	0.000972	0.002306	0.00E+00	1.98E-03	2.33E-03	0.00E+00	1.57E-04	5.25E-04	0.00E+00	8.87E-05	3.29E-04	0.00E+00
1455	587902.1	4154500	0.000918	0.002178	0.00E+00	1.87E-03	2.20E-03	0.00E+00	1.49E-04	4.95E-04	0.00E+00	8.38E-05	3.10E-04	0.00E+00
1456	587941.3	4154198	0.002034	0.004828	0.00E+00	4.13E-03	4.89E-03	0.00E+00	3.29E-04	1.10E-03	0.00E+00	1.86E-04	6.88E-04	0.00E+00
1457	587936.2	4154190	0.001992	0.004726	0.00E+00	4.05E-03	4.78E-03	0.00E+00	3.23E-04	1.08E-03	0.00E+00	1.82E-04	6.73E-04	0.00E+00
1458	587931.2	4154182	0.00194	0.004604	0.00E+00	3.94E-03	4.66E-03	0.00E+00	3.14E-04	1.05E-03	0.00E+00	1.77E-04	6.56E-04	0.00E+00
1459	587926.1	4154174	0.001882	0.004466	0.00E+00	3.82E-03	4.52E-03	0.00E+00	3.05E-04	1.02E-03	0.00E+00	1.72E-04	6.36E-04	0.00E+00
1460	587921	4154166	0.001819	0.004316	0.00E+00	3.70E-03	4.37E-03	0.00E+00	2.95E-04	9.82E-04	0.00E+00	1.66E-04	6.15E-04	0.00E+00
1461	587915.9	4154157	0.001751	0.004156	0.00E+00	3.56E-03	4.21E-03	0.00E+00	2.84E-04	9.45E-04	0.00E+00	1.60E-04	5.92E-04	0.00E+00
1462	587905.7	4154141	0.001611	0.003823	0.00E+00	3.27E-03	3.87E-03	0.00E+00	2.61E-04	8.70E-04	0.00E+00	1.47E-04	5.45E-04	0.00E+00
1463	587958.4	4154432	0.001306	0.0031	0.00E+00	2.65E-03	3.14E-03	0.00E+00	2.12E-04	7.05E-04	0.00E+00	1.19E-04	4.42E-04	0.00E+00
1464	587953.3	4154440	0.001267	0.003007	0.00E+00	2.58E-03	3.04E-03	0.00E+00	2.05E-04	6.84E-04	0.00E+00	1.16E-04	4.28E-04	0.00E+00
1465	587948.2	4154447	0.001225	0.002906	0.00E+00	2.49E-03	2.94E-03	0.00E+00	1.98E-04	6.61E-04	0.00E+00	1.12E-04	4.14E-04	0.00E+00
1466	587943.1	4154455	0.001181	0.002802	0.00E+00	2.40E-03	2.84E-03	0.00E+00	1.91E-04	6.37E-04	0.00E+00	1.08E-04	3.99E-04	0.00E+00
1467	587933	4154470	0.001087	0.00258	0.00E+00	2.21E-03	2.61E-03	0.00E+00	1.76E-04	5.87E-04	0.00E+00	9.93E-05	3.68E-04	0.00E+00
1468	587927.9	4154478	0.001037	0.002462	0.00E+00	2.11E-03	2.49E-03	0.00E+00	1.68E-04	5.60E-04	0.00E+00	9.47E-05	3.51E-04	0.00E+00
1469	587922.9	4154485	0.000987	0.002343	0.00E+00	2.01E-03	2.37E-03	0.00E+00	1.60E-04	5.33E-04	0.00E+00	9.01E-05	3.34E-04	0.00E+00
1470	587917.8	4154493	0.000937	0.002225	0.00E+00	1.91E-03	2.25E-03	0.00E+00	1.52E-04	5.06E-04	0.00E+00	8.56E-05	3.17E-04	0.00E+00
1471	587912.7	4154500	0.000888	0.002108	0.00E+00	1.81E-03	2.13E-03	0.00E+00	1.44E-04	4.79E-04	0.00E+00	8.11E-05	3.00E-04	0.00E+00
1472	587907.7	4154508	0.00084	0.001993	0.00E+00	1.71E-03	2.02E-03	0.00E+00	1.36E-04	4.53E-04	0.00E+00	7.67E-05	2.84E-04	0.00E+00
1473	587944.7	4154185	0.001865	0.004425	0.00E+00	3.79E-03	4.48E-03	0.00E+00	3.02E-04	1.01E-03	0.00E+00	1.70E-04	6.30E-04	0.00E+00
1474	587939.6	4154177	0.001818	0.004314	0.00E+00	3.69E-03	4.37E-03	0.00E+00	2.94E-04	9.81E-04	0.00E+00	1.66E-04	6.14E-04	0.00E+00
1475	587934.5	4154168	0.001765	0.004188	0.00E+00	3.59E-03	4.24E-03	0.00E+00	2.86E-04	9.53E-04	0.00E+00	1.61E-04	5.97E-04	0.00E+00
1476	587929.5	4154160	0.001708	0.004053	0.00E+00	3.47E-03	4.10E-03	0.00E+00	2.77E-04	9.22E-04	0.00E+00	1.56E-04	5.77E-04	0.00E+00
1477	587914.2	4154136	0.00152	0.003608	0.00E+00	3.09E-03	3.65E-03	0.00E+00	2.46E-04	8.21E-04	0.00E+00	1.39E-04	5.14E-04	0.00E+00
1478	587966.5	4154437	0.00122	0.002895	0.00E+00	2.48E-03	2.93E-03	0.00E+00	1.98E-04	6.59E-04	0.00E+00	1.11E-04	4.12E-04	0.00E+00
1479	587961.2	4154444	0.001182	0.002805	0.00E+00	2.40E-03	2.84E-03	0.00E+00	1.91E-04	6.38E-04	0.00E+00	1.08E-04	4.00E-04	0.00E+00
1480	587955.9	4154452	0.001141	0.002709	0.00E+00	2.32E-03	2.74E-03	0.00E+00	1.85E-04	6.16E-04	0.00E+00	1.04E-04	3.86E-04	0.00E+00
1481	587950.6	4154460	0.001099	0.002608	0.00E+00	2.23E-03	2.64E-03	0.00E+00	1.78E-04	5.93E-04	0.00E+00	1.00E-04	3.71E-04	0.00E+00
1482	587934.7	4154484	0.000961	0.002281	0.00E+00	1.95E-03	2.31E-03	0.00E+00	1.56E-04	5.19E-04	0.00E+00	8.78E-05	3.25E-04	0.00E+00
1483	587929.4	4154492	0.000913	0.002168	0.00E+00	1.86E-03	2.19E-03	0.00E+00	1.48E-04	4.93E-04	0.00E+00	8.34E-05	3.09E-04	0.00E+00
1484	587924.1	4154500	0.000866	0.002055	0.00E+00	1.76E-03	2.08E-03	0.00E+00	1.40E-04	4.67E-04	0.00E+00	7.90E-05	2.93E-04	0.00E+00
1485	587918.8	4154508	0.000819	0.001944	0.00E+00	1.66E-03	1.97E-03	0.00E+00	1.33E-04	4.42E-04	0.00E+00	7.48E-05	2.77E-04	0.00E+00
1486	587913.5	4154516	0.000773	0.001836	0.00E+00	1.57E-03	1.86E-03	0.00E+00	1.25E-04	4.18E-04	0.00E+00	7.06E-05	2.61E-04	0.00E+00
1487	587953.2	4154179	0.00175	0.004153	0.00E+00	3.56E-03	4.20E-03	0.00E+00	2.83E-04	9.45E-04	0.00E+00	1.60E-04	5.92E-04	0.00E+00
1488	587948.1	4154171	0.001707	0.004051	0.00E+00	3.47E-03	4.10E-03	0.00E+00	2.76E-04	9.22E-04	0.00E+00	1.56E-04	5.77E-04	0.00E+00
1489	587943	4154163	0.001659	0.003937	0.00E+00	3.37E-03	3.99E-03	0.00E+00	2.69E-04	8.96E-04	0.00E+00	1.51E-04	5.61E-04	0.00E+00
1490	587937.9	4154155	0.001607	0.003814	0.00E+00	3.27E-03	3.86E-03	0.00E+00	2.60E-04	8.68E-04	0.00E+00	1.47E-04	5.43E-04	0.00E+00
1491	587922.7	4154131	0.001437	0.003411	0.00E+00	2.92E-03	3.45E-03	0.00E+00	2.33E-04	7.76E-04	0.00E+00	1.31E-04	4.86E-04	0.00E+00
1492	587971.5	4154446	0.001121	0.002661	0.00E+00	2.28E-03	2.69E-03	0.00E+00	1.82E-04	6.05E-04	0.00E+00	1.02E-04	3.79E-04	0.00E+00
1493	587966.3	4154454	0.001085	0.002574	0.00E+00	2.20E-03	2.61E-03	0.00E+00	1.76E-04	5.86E-04	0.00E+00	9.90E-05	3.67E-04	0.00E+00
1494	587961	4154462	0.001046	0.002483	0.00E+00	2.13E-03	2.51E-03	0.00E+00	1.69E-04	5.65E-04	0.00E+00	9.55E-05	3.54E-04	0.00E+00
1495	587955.8	4154469	0.001007	0.002389	0.00E+00	2.05E-03	2.42E-03	0.00E+00	1.63E-04	5.44E-04	0.00E+00	9.19E-05	3.40E-04	0.00E+00
1496	587940.1	4154493	0.000881	0.002091	0.00E+00	1.79E-03	2.12E-03	0.00E+00	1.43E-04	4.76E-04	0.00E+00	8.04E-05	2.98E-04	0.00E+00
1497	587934.8	4154501	0.000838	0.001988	0.00E+00	1.70E-03	2.01E-03	0.00E+00	1.36E-04	4.52E-04	0.00E+00	7.65E-05	2.83E-04	0.00E+00
1498	587929.6	4154509	0.000795	0.001886	0.00E+00	1.62E-03	1.91E-03	0.00E+00	1.29E-04	4.29E-04	0.00E+00	7.26E-05	2.69E-04	0.00E+00
1499	587924.3	4154516	0.000753	0.001787	0.00E+00	1.53E-03	1.81E-03	0.00E+00	1.22E-04	4.06E-04	0.00E+00	6.87E-05	2.55E-04	0.00E+00
1500	587919.1	4154524	0.000712	0.00169	0.00E+00	1.45E-03	1.71E-03	0.00E+00	1.15E-04	3.84E-04	0.00E+00	6.50E-05	2.41E-04	0.00E+00
1501	587961.7	4154174	0.001646	0.003906	0.00E+00	3.35E-03	3.95E-03	0.00E+00	2.67E-04	8.89E-04	0.00E+00	1.50E-04	5.56E-04	0.00E+00
1502	587956.6	4154166	0.001607	0.003813	0.00E+00	3.27E-03	3.86E-03	0.00E+00	2.60E-04	8.67E-04	0.00E+00	1.47E-04	5.43E-04	0.00E+00
1503	587951.5	4154158	0.001563	0.003709	0.00E+00	3.18E-03	3.75E-03	0.00E+00	2.53E-04	8.44E-04	0.00E+00	1.43E-04	5.28E-04	0.00E+00
1504	587946.4	4154150	0.001516	0.003597	0.00E+00	3.08E-03	3.64E-03	0.00E+00	2.45E-04	8.18E-04	0.00E+00	1.38E-04	5.12E-04	0.00E+00
1505	587941.3	4154142	0.001466	0.003478	0.00E+00	2.98E-03	3.52E-03	0.00E+00	2.37E-04	7.91E-04	0.00E+00	1.34E-04	4.95E-04	0.00E+00
1506	587936.2	4154133	0.001414	0.003355	0.00E+00	2.87E-03	3.40E-03	0.00E+00	2.29E-04	7.63E-04	0.00E+00	1.29E-04	4.78E-04	0.00E+00
1507	587931.2	4154125	0.001361	0.00323	0.00E+00	2.77E-03	3.27E-03	0.00E+00	2.20E-04	7.35E-04	0.00E+00	1.24E-04	4.60E-04	0.00E+00
1508	587976.5	4154455	0.001032	0.002449	0.00E+00	2.10E-03	2.48E-03	0.00E+00	1.67E-04	5.57E-04	0.00E+00	9.42E-05	3.49E-04	0.00E+00
1509	587971.4	4154463	0.000998	0.002368	0.00E+00	2.03E-03	2.40E-03	0.00E+00	1.62E-04	5.39E-04	0.00E+00	9.11E-05	3.37E-04	0.00E+00
1510	587966.2	4154470	0.000961	0.002282	0.00E+00	1.95E-03	2.31E-03	0.00E+00	1.56E-04	5.19E-04	0.00E+00	8.78E-05	3.25E-04	0.00E+00
1511	587961	4154478	0.000924	0.002193	0.00E+00	1.88E-03	2.22E-03	0.00E+00	1.50E-04	4.99E-04	0.00E+00	8.44E-05	3.12E-04	0.00E+00
1512	587945.4	4154502	0.00081	0.001921	0.00E+00	1.65E-03	1.94E-03	0.00E+00	1.31E-04	4.37E-04	0.00E+00	7.39E-05	2.74E-04	0.00E+00
1513	587940.2	4154509	0.00077	0.001829	0.00E+00	1.57E-03	1.85E-03	0.00E+00	1.25E-04	4.16E-04	0.00E+00	7.03E-05	2.60E-04	0.00E+00
1514	587935.1	4154517	0.000732	0.001737	0.00E+00	1.49E-03	1.76E-03	0.00E+00	1.19E-04	3.95E-04	0.00E+00	6.68E-05	2.47E-04	0.00E+00
1515	587929.9	4154525	0.000694	0.001647	0.00E+00	1.41E-03	1.67E-03	0.00E+00	1.12E-04	3.75E-04	0.00E+00	6.34E-05	2.35E-04	0.00E+00
1516	587924.7	4154533	0.000658	0.001561	0.00E+00	1.34E-03	1.58E-03	0.00E+00	1.07E-04	3.55E-04	0.00E+00	6.00E-05	2.22E-04	0.00E+00
1517	587965.1	4154161	0.001515	0.003596	0.00E+00	3.08E-03	3.64E-03	0.00E+00	2.45E-04	8.18E-04	0.00E+00	1.38E-04	5.12E-04	0.00E+00
1518	587960	4154153	0.001475	0.003501	0.00E+00	3.00E-03	3.54E-03	0.00E+00	2.39E-04	7.96E-04	0.00E+00	1.35E-04	4.99E-04	0.00E+00
1519	587954.9	4154144	0.001432	0.003398	0.00E+00	2.91E-03	3.44E-03	0.00E+00	2.32E-04	7.73E-04	0.00E+00	1.31E-04	4.84E-04	0.00E+00
1520	587949.8	4154136	0.001386	0.00329	0.00E+00	2.82E-03	3.33E-03	0.00E+00	2.25E-04	7.48E-04	0.00E+00	1.27E-04	4.69E-04	0.00E+00
1521	587944.7	4154128	0.001339	0.003178	0.00E+00	2.72E-03	3.22E-03	0.00E+00	2.17E-04	7.23E-04	0.00E+00	1.22E-04	4.53E-04	0.00E+00
1522	587939.6	4154120	0.001291	0.003064	0.00E+00	2.62E-03	3.10E-03	0.00E+00	2.09E-04	6.97E-04	0.00E+00	1.18E-04	4.37E-04	0.00E+00
1523	587981.6	4154464	0.000952	0.002259	0.00E+00	1.93E-03	2.29E-03	0.00E+00	1.54E-04	5.14E-04	0.00E+00	8.69E-05	3.22E-04	0.00E+00
1524	587976.5	4154472	0.000919	0.002182	0.00E+00	1.87E-03	2.21E-03	0.00E+00	1.49E-04	4.96E-04	0.00E+00	8.39E-05	3.11E-04	0.00E+00
1525	587971.4	4154479	0.000885	0.002101	0.00E+00	1.80E-03	2.13E-03	0.00E+00	1.43E-04	4.78E-04	0.00E+00	8.08E-05	2.99E-04	0.00E+00
1526	587966.2	4154487	0.000851	0.002019	0.00E+00	1.73E-03	2.04E-03	0.00E+00	1.38E-04	4.59E-04	0.00E+00	7.77E-05	2.88E-04	0.00E+00
1527	587950.8	4154510	0.000746	0.00177	0.00E+00	1.52E-03	1.79E-03	0.00E+00	1.21E-04	4.03E-04	0.00E+00	6.81E-05	2.52E-04	0.00E+00
1528	587945.7	4154518	0.000711	0.001687	0.00E+00	1.44E-03	1.71E-03	0.00E+00	1.15E-04	3.84E-04	0.00E+00	6.49E-05	2.40E-04	0.00E+00
1529	587940.6	4154526	0.000676	0.001604	0.00E+00	1.37E-03	1.62E-03	0.00E+00	1.09E-04	3.65E-04	0.00E+00	6.17E-05	2.28E-04	0.00E+00
1530	587935.4	4154533	0.000642	0.001523	0.00E+00	1.30E-03	1.54E-03	0.00E+00	1.04E-04	3.47E-04	0.00E+00	5.86E-05	2.17E-04	0.00E+00
1531	587930.3	4154541	0.000609	0.001445	0.00E+00	1.24E-03	1.46E-03	0.00E+00	9.86E-05	3.29E-04	0.00E+00	5.56E-05	2.06E-04	0.00E+00
1532	587973.5	4154155	0.001432	0.003399	0.00E+00	2.91E-03	3.44E-03	0.00E+00	2.32E-04	7.73E-04	0.00E+00	1.31E-04	4.84E-04	0.00E+00
1533	587968.5	4154147	0.001395	0.003311	0.00E+00	2.84E-03	3.35E-03	0.00E+00	2.26E-04	7.53E-04	0.00E+00	1.27E-04	4.72E-04	0.00E+00
1534	587963.4	4154139	0.001355	0.003216	0.00E+00	2.75E-03	3.26E-03	0.00E+00	2.19E-04	7.32E-04	0.00E+00	1.24E-04	4.58E-04	0.00E+00
1535	587958.3	4154131	0.001313	0.003117	0.00E+00	2.67E-03	3.15E-03	0.00E+00	2.13E-04	7.09E-04	0.00E+00	1.20E-04	4.44E-04	0.00E+00
1536	587953.2	4154123	0.00127	0.003015	0.00E+00	2.58E-03	3.05E-03	0.00E+00	2.06E-04	6.86E-04	0.00E+00	1.16E-04	4.29E-04	0.00E+00
1537	587948.1	4154115	0.001227	0.002911	0.00E+00	2.49E-03	2.95E-03	0.00E+00	1.99E-04	6.62E-04	0.00E+00	1.12E-04	4.15E-04	0.00E+00
1538	587986.8	4154473	0.00088	0.002087	0.00E+00	1.79E-03	2.11E-03	0.00E+00	1.42E-04	4.75E-04	0.00E+00	8.03E-05	2.97E-04	0.00E+00
1539	587981.7	4154481	0.000849	0.002015	0.00E+00	1.73E-03	2.04E-03	0.00E+00	1.38E-04	4.58E-04	0.00E+00	7.75E-05	2.87E-04	0.00E+00
1540	587976.6	4154488	0.000817	0.00194	0.00E+00	1.66E-03	1.96E-03	0.00E+00	1.32E-04	4.41E-04	0.00E+00	7.46E-05	2.76E-04	0.00E+00
1541	587971.5	4154496	0.000785	0.001863	0.00E+00	1.60E-03	1.89E-03	0.00E+00	1.27E-04	4.24E-04	0.00E+00	7.17E-05	2.65E-04	0.00E+00
1542	587956.2	4154519	0.000689	0.001636	0.00E+00	1.40E-03	1.66E-03	0.00E+00	1.12E-04	3.72E-04	0.00E+00	6.30E-05	2.33E-04	0.00E+00
1543	587951.2	4154526	0.000657	0.00156	0.00E+00	1.34E-03	1.58E-03	0.00E+00	1.06E-04	3.55E-04	0.00E+00	6.00E-05	2.22E-04	0.00E+00
1544	587946.1	4154534	0.000626	0.001485	0.00E+00	1.27E-03	1.50E-03	0.00E+00	1.01E-04	3.38E-04	0.00E+00	5.71E-05	2.12E-04	0.00E+00

1545	587941	4154542	0.000595	0.001412	0.00E+00	1.21E-03	1.43E-03	0.00E+00	9.64E-05	3.21E-04	0.00E+00	5.43E-05	2.01E-04	0.00E+00
1546	587935.9	4154549	0.000565	0.001342	0.00E+00	1.15E-03	1.36E-03	0.00E+00	9.16E-05	3.05E-04	0.00E+00	5.16E-05	1.91E-04	0.00E+00
1547	587976.9	4154142	0.001322	0.003136	0.00E+00	2.69E-03	3.17E-03	0.00E+00	2.14E-04	7.13E-04	0.00E+00	1.21E-04	4.47E-04	0.00E+00
1548	587971.9	4154134	0.001285	0.003049	0.00E+00	2.61E-03	3.09E-03	0.00E+00	2.08E-04	6.94E-04	0.00E+00	1.17E-04	4.34E-04	0.00E+00
1549	587966.8	4154126	0.001246	0.002958	0.00E+00	2.53E-03	2.99E-03	0.00E+00	2.02E-04	6.73E-04	0.00E+00	1.14E-04	4.21E-04	0.00E+00
1550	587961.7	4154118	0.001207	0.002864	0.00E+00	2.45E-03	2.90E-03	0.00E+00	1.95E-04	6.52E-04	0.00E+00	1.10E-04	4.08E-04	0.00E+00
1551	587956.6	4154109	0.001167	0.002769	0.00E+00	2.37E-03	2.80E-03	0.00E+00	1.89E-04	6.30E-04	0.00E+00	1.07E-04	3.94E-04	0.00E+00
1552	587994.5	4154478	0.000828	0.001966	0.00E+00	1.68E-03	1.99E-03	0.00E+00	1.34E-04	4.47E-04	0.00E+00	7.56E-05	2.80E-04	0.00E+00
1553	587989.2	4154486	0.000799	0.001896	0.00E+00	1.62E-03	1.92E-03	0.00E+00	1.29E-04	4.31E-04	0.00E+00	7.29E-05	2.70E-04	0.00E+00
1554	587983.9	4154494	0.000768	0.001823	0.00E+00	1.56E-03	1.85E-03	0.00E+00	1.24E-04	4.15E-04	0.00E+00	7.02E-05	2.60E-04	0.00E+00
1555	587978.7	4154502	0.000737	0.00175	0.00E+00	1.50E-03	1.77E-03	0.00E+00	1.19E-04	3.98E-04	0.00E+00	6.73E-05	2.49E-04	0.00E+00
1556	587962.8	4154526	0.000645	0.001532	0.00E+00	1.31E-03	1.55E-03	0.00E+00	1.05E-04	3.48E-04	0.00E+00	5.89E-05	2.18E-04	0.00E+00
1557	587957.5	4154534	0.000615	0.001459	0.00E+00	1.25E-03	1.48E-03	0.00E+00	9.96E-05	3.32E-04	0.00E+00	5.61E-05	2.08E-04	0.00E+00
1558	587952.3	4154541	0.000585	0.001388	0.00E+00	1.19E-03	1.40E-03	0.00E+00	9.47E-05	3.16E-04	0.00E+00	5.34E-05	1.98E-04	0.00E+00
1559	587947	4154549	0.000556	0.001318	0.00E+00	1.13E-03	1.33E-03	0.00E+00	9.00E-05	3.00E-04	0.00E+00	5.07E-05	1.88E-04	0.00E+00
1560	587941.7	4154557	0.000527	0.001252	0.00E+00	1.07E-03	1.27E-03	0.00E+00	8.54E-05	2.85E-04	0.00E+00	4.82E-05	1.78E-04	0.00E+00
1561	587980.3	4154129	0.00122	0.002896	0.00E+00	2.48E-03	2.93E-03	0.00E+00	1.98E-04	6.59E-04	0.00E+00	1.11E-04	4.12E-04	0.00E+00
1562	587975.3	4154120	0.001185	0.002812	0.00E+00	2.41E-03	2.85E-03	0.00E+00	1.92E-04	6.40E-04	0.00E+00	1.08E-04	4.00E-04	0.00E+00
1563	587970.2	4154112	0.001148	0.002725	0.00E+00	2.33E-03	2.76E-03	0.00E+00	1.86E-04	6.20E-04	0.00E+00	1.05E-04	3.88E-04	0.00E+00
1564	587965.1	4154104	0.001111	0.002637	0.00E+00	2.26E-03	2.67E-03	0.00E+00	1.80E-04	6.00E-04	0.00E+00	1.01E-04	3.76E-04	0.00E+00
1565	587999.6	4154487	0.000768	0.001822	0.00E+00	1.56E-03	1.84E-03	0.00E+00	1.24E-04	4.14E-04	0.00E+00	7.01E-05	2.60E-04	0.00E+00
1566	587994.4	4154495	0.00074	0.001756	0.00E+00	1.50E-03	1.78E-03	0.00E+00	1.20E-04	4.00E-04	0.00E+00	6.76E-05	2.50E-04	0.00E+00
1567	587989.1	4154503	0.000712	0.001689	0.00E+00	1.45E-03	1.71E-03	0.00E+00	1.15E-04	3.84E-04	0.00E+00	6.50E-05	2.41E-04	0.00E+00
1568	587983.9	4154511	0.000683	0.001622	0.00E+00	1.39E-03	1.64E-03	0.00E+00	1.11E-04	3.69E-04	0.00E+00	6.24E-05	2.31E-04	0.00E+00
1569	587968.2	4154534	0.000599	0.001422	0.00E+00	1.22E-03	1.44E-03	0.00E+00	9.70E-05	3.23E-04	0.00E+00	5.47E-05	2.02E-04	0.00E+00
1570	587963	4154542	0.000571	0.001355	0.00E+00	1.16E-03	1.37E-03	0.00E+00	9.25E-05	3.08E-04	0.00E+00	5.21E-05	1.93E-04	0.00E+00
1571	587957.8	4154550	0.000544	0.001291	0.00E+00	1.11E-03	1.31E-03	0.00E+00	8.81E-05	2.94E-04	0.00E+00	4.96E-05	1.84E-04	0.00E+00
1572	587952.5	4154558	0.000517	0.001228	0.00E+00	1.05E-03	1.24E-03	0.00E+00	8.38E-05	2.79E-04	0.00E+00	4.72E-05	1.75E-04	0.00E+00
1573	587947.3	4154566	0.000492	0.001167	0.00E+00	1.00E-03	1.18E-03	0.00E+00	7.97E-05	2.66E-04	0.00E+00	4.49E-05	1.66E-04	0.00E+00
1574	587978.6	4154107	0.001094	0.002597	0.00E+00	2.22E-03	2.63E-03	0.00E+00	1.77E-04	5.91E-04	0.00E+00	9.99E-05	3.70E-04	0.00E+00
1575	587973.6	4154099	0.00106	0.002515	0.00E+00	2.15E-03	2.55E-03	0.00E+00	1.72E-04	5.72E-04	0.00E+00	9.68E-05	3.58E-04	0.00E+00
1576	588004.7	4154496	0.000713	0.001692	0.00E+00	1.45E-03	1.71E-03	0.00E+00	1.15E-04	3.85E-04	0.00E+00	6.51E-05	2.41E-04	0.00E+00
1577	587999.6	4154504	0.000687	0.001631	0.00E+00	1.40E-03	1.65E-03	0.00E+00	1.11E-04	3.71E-04	0.00E+00	6.27E-05	2.32E-04	0.00E+00
1578	587994.4	4154512	0.000661	0.001568	0.00E+00	1.34E-03	1.59E-03	0.00E+00	1.07E-04	3.57E-04	0.00E+00	6.03E-05	2.23E-04	0.00E+00
1579	587989.2	4154520	0.000635	0.001506	0.00E+00	1.29E-03	1.52E-03	0.00E+00	1.03E-04	3.43E-04	0.00E+00	5.79E-05	2.15E-04	0.00E+00
1580	587973.6	4154543	0.000557	0.001322	0.00E+00	1.13E-03	1.34E-03	0.00E+00	9.02E-05	3.01E-04	0.00E+00	5.09E-05	1.88E-04	0.00E+00
1581	587968.5	4154551	0.000532	0.001262	0.00E+00	1.08E-03	1.28E-03	0.00E+00	8.61E-05	2.87E-04	0.00E+00	4.85E-05	1.80E-04	0.00E+00
1582	587963.3	4154558	0.000507	0.001203	0.00E+00	1.03E-03	1.22E-03	0.00E+00	8.21E-05	2.74E-04	0.00E+00	4.63E-05	1.71E-04	0.00E+00
1583	587958.1	4154566	0.000483	0.001146	0.00E+00	9.82E-04	1.16E-03	0.00E+00	7.82E-05	2.61E-04	0.00E+00	4.41E-05	1.63E-04	0.00E+00
1584	587952.9	4154574	0.00046	0.001091	0.00E+00	9.35E-04	1.10E-03	0.00E+00	7.45E-05	2.48E-04	0.00E+00	4.20E-05	1.55E-04	0.00E+00
1585	587982	4154094	0.001012	0.002402	0.00E+00	2.06E-03	2.43E-03	0.00E+00	1.64E-04	5.46E-04	0.00E+00	9.24E-05	3.42E-04	0.00E+00
1586	588009.9	4154505	0.000663	0.001574	0.00E+00	1.35E-03	1.59E-03	0.00E+00	1.07E-04	3.58E-04	0.00E+00	6.06E-05	2.24E-04	0.00E+00
1587	588004.8	4154513	0.000639	0.001517	0.00E+00	1.30E-03	1.54E-03	0.00E+00	1.04E-04	3.45E-04	0.00E+00	5.84E-05	2.16E-04	0.00E+00
1588	587999.6	4154521	0.000615	0.001459	0.00E+00	1.25E-03	1.48E-03	0.00E+00	9.96E-05	3.32E-04	0.00E+00	5.61E-05	2.08E-04	0.00E+00
1589	587994.5	4154528	0.00059	0.001401	0.00E+00	1.20E-03	1.42E-03	0.00E+00	9.56E-05	3.19E-04	0.00E+00	5.39E-05	2.00E-04	0.00E+00
1590	587979.1	4154551	0.000519	0.001233	0.00E+00	1.06E-03	1.25E-03	0.00E+00	8.41E-05	2.80E-04	0.00E+00	4.74E-05	1.76E-04	0.00E+00
1591	587973.9	4154559	0.000496	0.001178	0.00E+00	1.01E-03	1.19E-03	0.00E+00	8.04E-05	2.68E-04	0.00E+00	4.53E-05	1.68E-04	0.00E+00
1592	587968.8	4154567	0.000474	0.001124	0.00E+00	9.63E-04	1.14E-03	0.00E+00	7.67E-05	2.56E-04	0.00E+00	4.32E-05	1.60E-04	0.00E+00
1593	587963.6	4154574	0.000452	0.001072	0.00E+00	9.18E-04	1.09E-03	0.00E+00	7.32E-05	2.44E-04	0.00E+00	4.12E-05	1.53E-04	0.00E+00
1594	587958.5	4154582	0.000431	0.001022	0.00E+00	8.76E-04	1.03E-03	0.00E+00	6.98E-05	2.33E-04	0.00E+00	3.93E-05	1.46E-04	0.00E+00
1595	587704.5	4154232	0.006846	0.016246	0.00E+00	1.39E-02	1.64E-02	0.00E+00	1.11E-03	3.70E-03	0.00E+00	6.25E-04	2.31E-03	0.00E+00
1596	587713.5	4154218	0.005157	0.012239	0.00E+00	1.05E-02	1.24E-02	0.00E+00	8.35E-04	2.78E-03	0.00E+00	4.71E-04	1.74E-03	0.00E+00
1597	587699.1	4154223	0.005514	0.013086	0.00E+00	1.12E-02	1.32E-02	0.00E+00	8.93E-04	2.98E-03	0.00E+00	5.03E-04	1.86E-03	0.00E+00
1598	587708	4154209	0.004305	0.010217	0.00E+00	8.75E-03	1.03E-02	0.00E+00	6.97E-04	2.32E-03	0.00E+00	3.93E-04	1.46E-03	0.00E+00
1599	587693.6	4154215	0.004562	0.010827	0.00E+00	9.27E-03	1.10E-02	0.00E+00	7.39E-04	2.46E-03	0.00E+00	4.17E-04	1.54E-03	0.00E+00
1600	587688.2	4154207	0.003851	0.009138	0.00E+00	7.83E-03	9.25E-03	0.00E+00	6.24E-04	2.08E-03	0.00E+00	3.52E-04	1.30E-03	0.00E+00
1601	587727.6	4154187	0.003141	0.007455	0.00E+00	6.39E-03	7.55E-03	0.00E+00	5.09E-04	1.70E-03	0.00E+00	2.87E-04	1.06E-03	0.00E+00
1602	587706.9	4154181	0.002748	0.006522	0.00E+00	5.59E-03	6.60E-03	0.00E+00	4.45E-04	1.48E-03	0.00E+00	2.51E-04	9.29E-04	0.00E+00
1603	587722.1	4154179	0.002749	0.006524	0.00E+00	5.59E-03	6.60E-03	0.00E+00	4.45E-04	1.48E-03	0.00E+00	2.51E-04	9.29E-04	0.00E+00
1604	587737.4	4154176	0.002738	0.006499	0.00E+00	5.57E-03	6.58E-03	0.00E+00	4.44E-04	1.48E-03	0.00E+00	2.50E-04	9.26E-04	0.00E+00
1605	587701.5	4154173	0.002421	0.005744	0.00E+00	4.92E-03	5.81E-03	0.00E+00	3.92E-04	1.31E-03	0.00E+00	2.21E-04	8.18E-04	0.00E+00
1606	587716.7	4154170	0.002425	0.005755	0.00E+00	4.93E-03	5.82E-03	0.00E+00	3.93E-04	1.31E-03	0.00E+00	2.21E-04	8.20E-04	0.00E+00
1607	587731.9	4154167	0.002426	0.005757	0.00E+00	4.93E-03	5.83E-03	0.00E+00	3.93E-04	1.31E-03	0.00E+00	2.21E-04	8.20E-04	0.00E+00
1608	587680.8	4154167	0.002148	0.005098	0.00E+00	4.37E-03	5.16E-03	0.00E+00	3.48E-04	1.16E-03	0.00E+00	1.96E-04	7.26E-04	0.00E+00
1609	587711.3	4154162	0.002155	0.005114	0.00E+00	4.38E-03	5.18E-03	0.00E+00	3.49E-04	1.16E-03	0.00E+00	1.97E-04	7.28E-04	0.00E+00
1610	587726.5	4154159	0.002161	0.005129	0.00E+00	4.39E-03	5.19E-03	0.00E+00	3.50E-04	1.17E-03	0.00E+00	1.97E-04	7.31E-04	0.00E+00
1611	587741.7	4154156	0.00216	0.005125	0.00E+00	4.39E-03	5.19E-03	0.00E+00	3.50E-04	1.17E-03	0.00E+00	1.97E-04	7.30E-04	0.00E+00
1612	587666.4	4154173	0.002233	0.005299	0.00E+00	4.54E-03	5.36E-03	0.00E+00	3.62E-04	1.21E-03	0.00E+00	2.04E-04	7.55E-04	0.00E+00
1613	587675.4	4154159	0.001923	0.004564	0.00E+00	3.91E-03	4.62E-03	0.00E+00	3.11E-04	1.04E-03	0.00E+00	1.76E-04	6.50E-04	0.00E+00
1614	587690.6	4154156	0.001923	0.004564	0.00E+00	3.91E-03	4.62E-03	0.00E+00	3.11E-04	1.04E-03	0.00E+00	1.76E-04	6.50E-04	0.00E+00
1615	587705.8	4154153	0.001928	0.004575	0.00E+00	3.92E-03	4.63E-03	0.00E+00	3.12E-04	1.04E-03	0.00E+00	1.76E-04	6.52E-04	0.00E+00
1616	587721	4154151	0.001936	0.004594	0.00E+00	3.93E-03	4.65E-03	0.00E+00	3.14E-04	1.05E-03	0.00E+00	1.77E-04	6.54E-04	0.00E+00
1617	587736.2	4154148	0.001941	0.004607	0.00E+00	3.95E-03	4.66E-03	0.00E+00	3.14E-04	1.05E-03	0.00E+00	1.77E-04	6.56E-04	0.00E+00
1618	587783	4154167	0.002557	0.006067	0.00E+00	5.20E-03	6.14E-03	0.00E+00	4.14E-04	1.38E-03	0.00E+00	2.33E-04	8.64E-04	0.00E+00
1619	587795.7	4154176	0.00282	0.006691	0.00E+00	5.73E-03	6.77E-03	0.00E+00	4.57E-04	1.52E-03	0.00E+00	2.57E-04	9.53E-04	0.00E+00
1620	587661	4154165	0.001996	0.004738	0.00E+00	4.06E-03	4.80E-03	0.00E+00	3.23E-04	1.08E-03	0.00E+00	1.82E-04	6.75E-04	0.00E+00
1621	587669.9	4154150	0.001734	0.004114	0.00E+00	3.52E-03	4.16E-03	0.00E+00	2.81E-04	9.36E-04	0.00E+00	1.58E-04	5.86E-04	0.00E+00
1622	587685.1	4154148	0.001732	0.00411	0.00E+00	3.52E-03	4.16E-03	0.00E+00	2.81E-04	9.35E-04	0.00E+00	1.58E-04	5.85E-04	0.00E+00
1623	587715.6	4154142	0.001743	0.004137	0.00E+00	3.54E-03	4.19E-03	0.00E+00	2.82E-04	9.41E-04	0.00E+00	1.59E-04	5.89E-04	0.00E+00
1624	587730.8	4154139	0.001752	0.004157	0.00E+00	3.56E-03	4.21E-03	0.00E+00	2.84E-04	9.46E-04	0.00E+00	1.60E-04	5.92E-04	0.00E+00
1625	587772.6	4154149	0.002064	0.004898	0.00E+00	4.20E-03	4.96E-03	0.00E+00	3.34E-04	1.11E-03	0.00E+00	1.88E-04	6.98E-04	0.00E+00
1626	587785.2	4154158	0.002285	0.005423	0.00E+00	4.64E-03	5.49E-03	0.00E+00	3.70E-04	1.23E-03	0.00E+00	2.09E-04	7.72E-04	0.00E+00
1627	587797.8	4154167	0.00251	0.005958	0.00E+00	5.10E-03	6.03E-03	0.00E+00	4.07E-04	1.36E-03	0.00E+00	2.29E-04	8.49E-04	0.00E+00
1628	587810.5	4154176	0.002732	0.006483	0.00E+00	5.55E-03	6.56E-03	0.00E+00	4.42E-04	1.47E-03	0.00E+00	2.49E-04	9.23E-04	0.00E+00
1629	587655.5	4154156	0.001798	0.004268	0.00E+00	3.66E-03	4.32E-03	0.00E+00	2.91E-04	9.71E-04	0.00E+00	1.64E-04	6.08E-04	0.00E+00
1630	587664.5	4154142	0.001573	0.003733	0.00E+00	3.20E-03	3.78E-03	0.00E+00	2.55E-04	8.49E-04	0.00E+00	1.44E-04	5.32E-04	0.00E+00
1631	587679.7	4154139	0.00157	0.003725	0.00E+00	3.19E-03	3.77E-03	0.00E+00	2.54E-04	8.47E-04	0.00E+00	1.43E-04	5.31E-04	0.00E+00
1632	587710.1	4154134	0.001578	0.003745	0.00E+00	3.21E-03	3.79E-03	0.00E+00	2.56E-04	8.52E-04	0.00E+00	1.44E-04	5.33E-04	0.00E+00
1633	587725.4	4154131	0.001588	0.003768	0.00E+00	3.23E-03	3.81E-03	0.00E+00	2.57E-04	8.57E-04	0.00E+00	1.45E-04	5.37E-04	0.00E+00
1634	587740.6	4154128	0.001595	0.003785	0.00E+00	3.24E-03	3.83E-03	0.00E+00	2.58E-04	8.61E-04	0.00E+00	1.46E-04	5.39E-04	0.00E+00
1635	587774.7	4154139	0.001866	0.004428	0.00E+00	3.79E-03	4.48E-03	0.00E+00	3.02E-04	1.01E-03	0.00E+00	1.70E-04	6.31E-04	0.00E+00

1636	587787.4	4154148	0.002057	0.004882	0.00E+00	4.18E-03	4.94E-03	0.00E+00	3.33E-04	1.11E-03	0.00E+00	1.88E-04	6.95E-04	0.00E+00
1637	587800	4154157	0.002252	0.005344	0.00E+00	4.58E-03	5.41E-03	0.00E+00	3.65E-04	1.22E-03	0.00E+00	2.06E-04	7.61E-04	0.00E+00
1638	587812.6	4154166	0.002445	0.005802	0.00E+00	4.97E-03	5.87E-03	0.00E+00	3.96E-04	1.32E-03	0.00E+00	2.23E-04	8.26E-04	0.00E+00
1639	587825.3	4154175	0.002627	0.006234	0.00E+00	5.34E-03	6.31E-03	0.00E+00	4.25E-04	1.42E-03	0.00E+00	2.40E-04	8.88E-04	0.00E+00
1640	587650.1	4154148	0.001631	0.00387	0.00E+00	3.31E-03	3.92E-03	0.00E+00	2.64E-04	8.80E-04	0.00E+00	1.49E-04	5.51E-04	0.00E+00
1641	587674.3	4154131	0.00143	0.003394	0.00E+00	2.91E-03	3.44E-03	0.00E+00	2.32E-04	7.72E-04	0.00E+00	1.31E-04	4.83E-04	0.00E+00
1642	587704.7	4154125	0.001436	0.003407	0.00E+00	2.92E-03	3.45E-03	0.00E+00	2.33E-04	7.75E-04	0.00E+00	1.31E-04	4.85E-04	0.00E+00
1643	587719.9	4154123	0.001445	0.003428	0.00E+00	2.94E-03	3.47E-03	0.00E+00	2.34E-04	7.80E-04	0.00E+00	1.32E-04	4.88E-04	0.00E+00
1644	587735.1	4154120	0.001454	0.00345	0.00E+00	2.96E-03	3.49E-03	0.00E+00	2.35E-04	7.85E-04	0.00E+00	1.33E-04	4.91E-04	0.00E+00
1645	587776.9	4154129	0.001696	0.004025	0.00E+00	3.45E-03	4.07E-03	0.00E+00	2.75E-04	9.16E-04	0.00E+00	1.55E-04	5.73E-04	0.00E+00
1646	587789.5	4154138	0.001863	0.004422	0.00E+00	3.79E-03	4.48E-03	0.00E+00	3.02E-04	1.01E-03	0.00E+00	1.70E-04	6.30E-04	0.00E+00
1647	587802.2	4154147	0.002033	0.004825	0.00E+00	4.13E-03	4.88E-03	0.00E+00	3.29E-04	1.10E-03	0.00E+00	1.86E-04	6.87E-04	0.00E+00
1648	587814.8	4154156	0.002202	0.005225	0.00E+00	4.48E-03	5.29E-03	0.00E+00	3.57E-04	1.19E-03	0.00E+00	2.01E-04	7.44E-04	0.00E+00
1649	587827.4	4154165	0.002364	0.005609	0.00E+00	4.80E-03	5.68E-03	0.00E+00	3.83E-04	1.28E-03	0.00E+00	2.16E-04	7.99E-04	0.00E+00
1650	587644.6	4154140	0.001487	0.003529	0.00E+00	3.02E-03	3.57E-03	0.00E+00	2.41E-04	8.03E-04	0.00E+00	1.36E-04	5.03E-04	0.00E+00
1651	587714.5	4154114	0.00132	0.003133	0.00E+00	2.68E-03	3.17E-03	0.00E+00	2.14E-04	7.13E-04	0.00E+00	1.21E-04	4.46E-04	0.00E+00
1652	587729.7	4154112	0.00133	0.003156	0.00E+00	2.70E-03	3.19E-03	0.00E+00	2.15E-04	7.18E-04	0.00E+00	1.21E-04	4.49E-04	0.00E+00
1653	587779.1	4154119	0.00155	0.003678	0.00E+00	3.15E-03	3.72E-03	0.00E+00	2.51E-04	8.37E-04	0.00E+00	1.42E-04	5.24E-04	0.00E+00
1654	587791.7	4154128	0.001697	0.004027	0.00E+00	3.45E-03	4.08E-03	0.00E+00	2.75E-04	9.16E-04	0.00E+00	1.55E-04	5.74E-04	0.00E+00
1655	587804.3	4154137	0.001846	0.004382	0.00E+00	3.75E-03	4.44E-03	0.00E+00	2.99E-04	9.97E-04	0.00E+00	1.69E-04	6.24E-04	0.00E+00
1656	587817	4154146	0.001995	0.004734	0.00E+00	4.05E-03	4.79E-03	0.00E+00	3.23E-04	1.08E-03	0.00E+00	1.82E-04	6.74E-04	0.00E+00
1657	587829.6	4154155	0.002139	0.005075	0.00E+00	4.35E-03	5.14E-03	0.00E+00	3.46E-04	1.15E-03	0.00E+00	1.95E-04	7.23E-04	0.00E+00
1658	587842.2	4154164	0.002271	0.005391	0.00E+00	4.62E-03	5.46E-03	0.00E+00	3.68E-04	1.23E-03	0.00E+00	2.07E-04	7.68E-04	0.00E+00
1659	587648.1	4154117	0.001213	0.002878	0.00E+00	2.47E-03	2.91E-03	0.00E+00	1.96E-04	6.55E-04	0.00E+00	1.11E-04	4.10E-04	0.00E+00
1660	587663.4	4154114	0.001206	0.002862	0.00E+00	2.45E-03	2.90E-03	0.00E+00	1.95E-04	6.51E-04	0.00E+00	1.10E-04	4.08E-04	0.00E+00
1661	587678.6	4154111	0.001203	0.002854	0.00E+00	2.44E-03	2.89E-03	0.00E+00	1.95E-04	6.49E-04	0.00E+00	1.10E-04	4.07E-04	0.00E+00
1662	587709	4154106	0.001211	0.002874	0.00E+00	2.46E-03	2.91E-03	0.00E+00	1.96E-04	6.54E-04	0.00E+00	1.11E-04	4.09E-04	0.00E+00
1663	587724.2	4154103	0.00122	0.002896	0.00E+00	2.48E-03	2.93E-03	0.00E+00	1.98E-04	6.59E-04	0.00E+00	1.11E-04	4.12E-04	0.00E+00
1664	587768.6	4154101	0.001297	0.003078	0.00E+00	2.64E-03	3.12E-03	0.00E+00	2.10E-04	7.00E-04	0.00E+00	1.18E-04	4.38E-04	0.00E+00
1665	587781.2	4154110	0.001422	0.003376	0.00E+00	2.89E-03	3.42E-03	0.00E+00	2.30E-04	7.68E-04	0.00E+00	1.30E-04	4.81E-04	0.00E+00
1666	587793.9	4154119	0.001553	0.003685	0.00E+00	3.16E-03	3.73E-03	0.00E+00	2.52E-04	8.38E-04	0.00E+00	1.42E-04	5.25E-04	0.00E+00
1667	587806.5	4154128	0.001685	0.003999	0.00E+00	3.43E-03	4.05E-03	0.00E+00	2.73E-04	9.10E-04	0.00E+00	1.54E-04	5.70E-04	0.00E+00
1668	587844.4	4154154	0.002066	0.004902	0.00E+00	4.20E-03	4.96E-03	0.00E+00	3.35E-04	1.12E-03	0.00E+00	1.89E-04	6.98E-04	0.00E+00
1669	587633.7	4154123	0.001256	0.002982	0.00E+00	2.55E-03	3.02E-03	0.00E+00	2.03E-04	6.78E-04	0.00E+00	1.15E-04	4.25E-04	0.00E+00
1670	587642.7	4154109	0.001123	0.002664	0.00E+00	2.28E-03	2.70E-03	0.00E+00	1.82E-04	6.06E-04	0.00E+00	1.02E-04	3.79E-04	0.00E+00
1671	587657.9	4154106	0.001115	0.002645	0.00E+00	2.27E-03	2.68E-03	0.00E+00	1.81E-04	6.02E-04	0.00E+00	1.02E-04	3.77E-04	0.00E+00
1672	587673.1	4154103	0.00111	0.002635	0.00E+00	2.26E-03	2.67E-03	0.00E+00	1.80E-04	5.99E-04	0.00E+00	1.01E-04	3.75E-04	0.00E+00
1673	587703.6	4154098	0.001115	0.002647	0.00E+00	2.27E-03	2.68E-03	0.00E+00	1.81E-04	6.02E-04	0.00E+00	1.02E-04	3.77E-04	0.00E+00
1674	587718.8	4154095	0.001123	0.002666	0.00E+00	2.28E-03	2.70E-03	0.00E+00	1.82E-04	6.06E-04	0.00E+00	1.03E-04	3.80E-04	0.00E+00
1675	587770.8	4154091	0.001199	0.002845	0.00E+00	2.44E-03	2.88E-03	0.00E+00	1.94E-04	6.47E-04	0.00E+00	1.09E-04	4.05E-04	0.00E+00
1676	587783.4	4154100	0.001311	0.003111	0.00E+00	2.66E-03	3.15E-03	0.00E+00	2.12E-04	7.08E-04	0.00E+00	1.20E-04	4.43E-04	0.00E+00
1677	587796	4154109	0.001427	0.003387	0.00E+00	2.90E-03	3.43E-03	0.00E+00	2.31E-04	7.71E-04	0.00E+00	1.30E-04	4.82E-04	0.00E+00
1678	587808.7	4154118	0.001545	0.003667	0.00E+00	3.14E-03	3.71E-03	0.00E+00	2.50E-04	8.34E-04	0.00E+00	1.41E-04	5.22E-04	0.00E+00
1679	587833.9	4154136	0.001777	0.004216	0.00E+00	3.61E-03	4.27E-03	0.00E+00	2.88E-04	9.59E-04	0.00E+00	1.62E-04	6.01E-04	0.00E+00
1680	587628.3	4154114	0.001163	0.002759	0.00E+00	2.36E-03	2.79E-03	0.00E+00	1.88E-04	6.28E-04	0.00E+00	1.06E-04	3.93E-04	0.00E+00
1681	587637.3	4154100	0.001043	0.002475	0.00E+00	2.12E-03	2.51E-03	0.00E+00	1.69E-04	5.63E-04	0.00E+00	9.52E-05	3.53E-04	0.00E+00
1682	587652.5	4154097	0.001034	0.002455	0.00E+00	2.10E-03	2.48E-03	0.00E+00	1.68E-04	5.58E-04	0.00E+00	9.44E-05	3.50E-04	0.00E+00
1683	587667.7	4154095	0.001029	0.002442	0.00E+00	2.09E-03	2.47E-03	0.00E+00	1.67E-04	5.55E-04	0.00E+00	9.40E-05	3.48E-04	0.00E+00
1684	587698.1	4154089	0.001031	0.002447	0.00E+00	2.10E-03	2.48E-03	0.00E+00	1.67E-04	5.57E-04	0.00E+00	9.41E-05	3.49E-04	0.00E+00
1685	587713.4	4154086	0.001038	0.002463	0.00E+00	2.11E-03	2.49E-03	0.00E+00	1.68E-04	5.60E-04	0.00E+00	9.47E-05	3.51E-04	0.00E+00
1686	587759	4154078	0.001062	0.002519	0.00E+00	2.16E-03	2.55E-03	0.00E+00	1.72E-04	5.73E-04	0.00E+00	9.69E-05	3.59E-04	0.00E+00
1687	587772.9	4154081	0.001112	0.002639	0.00E+00	2.26E-03	2.67E-03	0.00E+00	1.80E-04	6.00E-04	0.00E+00	1.02E-04	3.76E-04	0.00E+00
1688	587785.6	4154090	0.001213	0.002878	0.00E+00	2.46E-03	2.91E-03	0.00E+00	1.96E-04	6.55E-04	0.00E+00	1.11E-04	4.10E-04	0.00E+00
1689	587798.2	4154099	0.001317	0.003125	0.00E+00	2.68E-03	3.16E-03	0.00E+00	2.13E-04	7.11E-04	0.00E+00	1.20E-04	4.45E-04	0.00E+00
1690	587823.4	4154117	0.001528	0.003625	0.00E+00	3.11E-03	3.67E-03	0.00E+00	2.47E-04	8.25E-04	0.00E+00	1.39E-04	5.16E-04	0.00E+00
1691	587836.1	4154126	0.00163	0.003869	0.00E+00	3.31E-03	3.92E-03	0.00E+00	2.64E-04	8.80E-04	0.00E+00	1.49E-04	5.51E-04	0.00E+00
1692	587848.7	4154135	0.001729	0.004103	0.00E+00	3.51E-03	4.15E-03	0.00E+00	2.80E-04	9.33E-04	0.00E+00	1.58E-04	5.84E-04	0.00E+00
1693	587622.9	4154106	0.00108	0.002563	0.00E+00	2.20E-03	2.59E-03	0.00E+00	1.75E-04	5.83E-04	0.00E+00	9.86E-05	3.65E-04	0.00E+00
1694	587631.8	4154092	0.000972	0.002308	0.00E+00	1.98E-03	2.34E-03	0.00E+00	1.57E-04	5.25E-04	0.00E+00	8.88E-05	3.29E-04	0.00E+00
1695	587647	4154089	0.000963	0.002286	0.00E+00	1.96E-03	2.31E-03	0.00E+00	1.56E-04	5.20E-04	0.00E+00	8.80E-05	3.26E-04	0.00E+00
1696	587662.3	4154086	0.000957	0.002272	0.00E+00	1.95E-03	2.30E-03	0.00E+00	1.55E-04	5.17E-04	0.00E+00	8.74E-05	3.24E-04	0.00E+00
1697	587692.7	4154081	0.000956	0.00227	0.00E+00	1.94E-03	2.30E-03	0.00E+00	1.55E-04	5.16E-04	0.00E+00	8.73E-05	3.23E-04	0.00E+00
1698	587707.9	4154078	0.000962	0.002282	0.00E+00	1.95E-03	2.31E-03	0.00E+00	1.56E-04	5.19E-04	0.00E+00	8.78E-05	3.25E-04	0.00E+00
1699	587753.6	4154070	0.000985	0.002338	0.00E+00	2.00E-03	2.37E-03	0.00E+00	1.60E-04	5.32E-04	0.00E+00	9.00E-05	3.33E-04	0.00E+00
1700	587775.1	4154071	0.001034	0.002455	0.00E+00	2.10E-03	2.48E-03	0.00E+00	1.68E-04	5.58E-04	0.00E+00	9.44E-05	3.50E-04	0.00E+00
1701	587787.7	4154080	0.001125	0.00267	0.00E+00	2.29E-03	2.70E-03	0.00E+00	1.82E-04	6.07E-04	0.00E+00	1.03E-04	3.80E-04	0.00E+00
1702	587800.4	4154089	0.001219	0.002893	0.00E+00	2.48E-03	2.93E-03	0.00E+00	1.97E-04	6.58E-04	0.00E+00	1.11E-04	4.12E-04	0.00E+00
1703	587825.6	4154107	0.001409	0.003344	0.00E+00	2.86E-03	3.39E-03	0.00E+00	2.28E-04	7.61E-04	0.00E+00	1.29E-04	4.76E-04	0.00E+00
1704	587838.2	4154116	0.001502	0.003564	0.00E+00	3.05E-03	3.61E-03	0.00E+00	2.43E-04	8.11E-04	0.00E+00	1.37E-04	5.08E-04	0.00E+00
1705	587850.9	4154125	0.001591	0.003776	0.00E+00	3.23E-03	3.82E-03	0.00E+00	2.58E-04	8.59E-04	0.00E+00	1.45E-04	5.38E-04	0.00E+00
1706	587863.5	4154134	0.001675	0.003975	0.00E+00	3.40E-03	4.02E-03	0.00E+00	2.71E-04	9.04E-04	0.00E+00	1.53E-04	5.66E-04	0.00E+00
1707	587617.4	4154098	0.001007	0.002389	0.00E+00	2.05E-03	2.42E-03	0.00E+00	1.63E-04	5.43E-04	0.00E+00	9.19E-05	3.40E-04	0.00E+00
1708	587626.4	4154083	0.00091	0.002159	0.00E+00	1.85E-03	2.18E-03	0.00E+00	1.47E-04	4.91E-04	0.00E+00	8.30E-05	3.07E-04	0.00E+00
1709	587641.6	4154081	0.0009	0.002137	0.00E+00	1.83E-03	2.16E-03	0.00E+00	1.46E-04	4.86E-04	0.00E+00	8.22E-05	3.04E-04	0.00E+00
1710	587656.8	4154078	0.000893	0.00212	0.00E+00	1.82E-03	2.15E-03	0.00E+00	1.45E-04	4.82E-04	0.00E+00	8.16E-05	3.02E-04	0.00E+00
1711	587687.2	4154072	0.00089	0.002113	0.00E+00	1.81E-03	2.14E-03	0.00E+00	1.44E-04	4.81E-04	0.00E+00	8.13E-05	3.01E-04	0.00E+00
1712	587702.5	4154070	0.000894	0.002122	0.00E+00	1.82E-03	2.15E-03	0.00E+00	1.45E-04	4.83E-04	0.00E+00	8.16E-05	3.02E-04	0.00E+00
1713	587717.7	4154067	0.000901	0.002138	0.00E+00	1.83E-03	2.16E-03	0.00E+00	1.46E-04	4.86E-04	0.00E+00	8.22E-05	3.04E-04	0.00E+00
1714	587748.1	4154061	0.000916	0.002173	0.00E+00	1.86E-03	2.20E-03	0.00E+00	1.48E-04	4.94E-04	0.00E+00	8.36E-05	3.10E-04	0.00E+00
1715	587763.3	4154059	0.000921	0.002186	0.00E+00	1.87E-03	2.21E-03	0.00E+00	1.49E-04	4.97E-04	0.00E+00	8.41E-05	3.11E-04	0.00E+00
1716	587777.3	4154062	0.000963	0.002286	0.00E+00	1.96E-03	2.31E-03	0.00E+00	1.56E-04	5.20E-04	0.00E+00	8.80E-05	3.26E-04	0.00E+00
1717	587789.9	4154071	0.001047	0.002484	0.00E+00	2.13E-03	2.51E-03	0.00E+00	1.69E-04	5.65E-04	0.00E+00	9.56E-05	3.54E-04	0.00E+00
1718	587802.5	4154080	0.001131	0.002684	0.00E+00	2.30E-03	2.72E-03	0.00E+00	1.83E-04	6.11E-04	0.00E+00	1.03E-04	3.82E-04	0.00E+00
1719	587827.8	4154097	0.001304	0.003093	0.00E+00	2.65E-03	3.13E-03	0.00E+00	2.11E-04	7.04E-04	0.00E+00	1.19E-04	4.41E-04	0.00E+00
1720	587840.4	4154106	0.001388	0.003295	0.00E+00	2.82E-03	3.34E-03	0.00E+00	2.25E-04	7.50E-04	0.00E+00	1.27E-04	4.69E-04	0.00E+00
1721	587853	4154115	0.001469	0.003487	0.00E+00	2.99E-03	3.53E-03	0.00E+00	2.38E-04	7.93E-04	0.00E+00	1.34E-04	4.97E-04	0.00E+00
1722	587865.7	4154124	0.001546	0.00367	0.00E+00	3.14E-03	3.71E-03	0.00E+00	2.50E-04	8.35E-04	0.00E+00	1.41E-04	5.23E-04	0.00E+00
1723	587878.3	4154133	0.001618	0.003839	0.00E+00	3.29E-03	3.89E-03	0.00E+00	2.62E-04	8.73E-04	0.00E+00	1.48E-04	5.47E-04	0.00E+00
1724	587612	4154089	0.000941	0.002234	0.00E+00	1.91E-03	2.26E-03	0.00E+00	1.52E-04	5.08E-04	0.00E+00	8.60E-05	3.18E-04	0.00E+00
1725	587620.9	4154075	0.000853	0.002024	0.00E+00	1.73E-03	2.05E-03	0.00E+00	1.38E-04	4.61E-04	0.00E+00	7.79E-05	2.88E-04	0.00E+00
1726	587636.1	4154072	0.000844	0.002003	0.00E+00	1.72E-03	2.03E-03	0.00E+00	1.37E-04	4.56E-04	0.00E+00	7.71E-05	2.85E-04	0.00E+00

1727	587651.4	4154069	0.000837	0.001986	0.00E+00	1.70E-03	2.01E-03	0.00E+00	1.36E-04	4.52E-04	0.00E+00	7.64E-05	2.83E-04	0.00E+00
1728	587681.8	4154064	0.000832	0.001973	0.00E+00	1.69E-03	2.00E-03	0.00E+00	1.35E-04	4.49E-04	0.00E+00	7.59E-05	2.81E-04	0.00E+00
1729	587697	4154061	0.000834	0.001979	0.00E+00	1.70E-03	2.00E-03	0.00E+00	1.35E-04	4.50E-04	0.00E+00	7.61E-05	2.82E-04	0.00E+00
1730	587712.2	4154059	0.000839	0.001992	0.00E+00	1.71E-03	2.02E-03	0.00E+00	1.36E-04	4.53E-04	0.00E+00	7.66E-05	2.84E-04	0.00E+00
1731	587742.7	4154053	0.000854	0.002026	0.00E+00	1.74E-03	2.05E-03	0.00E+00	1.38E-04	4.61E-04	0.00E+00	7.79E-05	2.89E-04	0.00E+00
1732	587757.9	4154050	0.000859	0.002039	0.00E+00	1.75E-03	2.06E-03	0.00E+00	1.39E-04	4.64E-04	0.00E+00	7.85E-05	2.90E-04	0.00E+00
1733	587779.4	4154052	0.0009	0.002137	0.00E+00	1.83E-03	2.16E-03	0.00E+00	1.46E-04	4.86E-04	0.00E+00	8.22E-05	3.04E-04	0.00E+00
1734	587792.1	4154061	0.000976	0.002315	0.00E+00	1.98E-03	2.34E-03	0.00E+00	1.58E-04	5.27E-04	0.00E+00	8.91E-05	3.30E-04	0.00E+00
1735	587829.9	4154088	0.001209	0.002868	0.00E+00	2.46E-03	2.90E-03	0.00E+00	1.96E-04	6.52E-04	0.00E+00	1.10E-04	4.09E-04	0.00E+00
1736	587842.6	4154097	0.001287	0.003054	0.00E+00	2.62E-03	3.09E-03	0.00E+00	2.08E-04	6.95E-04	0.00E+00	1.17E-04	4.35E-04	0.00E+00
1737	587855.2	4154106	0.001362	0.003231	0.00E+00	2.77E-03	3.27E-03	0.00E+00	2.21E-04	7.35E-04	0.00E+00	1.24E-04	4.60E-04	0.00E+00
1738	587867.8	4154114	0.001432	0.003398	0.00E+00	2.91E-03	3.44E-03	0.00E+00	2.32E-04	7.73E-04	0.00E+00	1.31E-04	4.84E-04	0.00E+00
1739	587880.5	4154123	0.001498	0.003555	0.00E+00	3.04E-03	3.60E-03	0.00E+00	2.43E-04	8.09E-04	0.00E+00	1.37E-04	5.06E-04	0.00E+00
1740	587893.1	4154132	0.001558	0.003698	0.00E+00	3.17E-03	3.74E-03	0.00E+00	2.52E-04	8.41E-04	0.00E+00	1.42E-04	5.27E-04	0.00E+00
1741	587606.5	4154081	0.000883	0.002094	0.00E+00	1.79E-03	2.12E-03	0.00E+00	1.43E-04	4.76E-04	0.00E+00	8.06E-05	2.98E-04	0.00E+00
1742	587615.8	4154067	0.000802	0.001903	0.00E+00	1.63E-03	1.93E-03	0.00E+00	1.30E-04	4.33E-04	0.00E+00	7.32E-05	2.71E-04	0.00E+00
1743	587631.8	4154064	0.000793	0.001881	0.00E+00	1.61E-03	1.90E-03	0.00E+00	1.28E-04	4.28E-04	0.00E+00	7.24E-05	2.68E-04	0.00E+00
1744	587647.7	4154061	0.000785	0.001863	0.00E+00	1.60E-03	1.89E-03	0.00E+00	1.27E-04	4.24E-04	0.00E+00	7.17E-05	2.65E-04	0.00E+00
1745	587679.6	4154055	0.000779	0.001848	0.00E+00	1.58E-03	1.87E-03	0.00E+00	1.26E-04	4.20E-04	0.00E+00	7.11E-05	2.63E-04	0.00E+00
1746	587695.6	4154052	0.000781	0.001853	0.00E+00	1.59E-03	1.88E-03	0.00E+00	1.26E-04	4.22E-04	0.00E+00	7.13E-05	2.64E-04	0.00E+00
1747	587743.4	4154044	0.0008	0.001899	0.00E+00	1.63E-03	1.92E-03	0.00E+00	1.30E-04	4.32E-04	0.00E+00	7.31E-05	2.70E-04	0.00E+00
1748	587759.3	4154041	0.000806	0.001914	0.00E+00	1.64E-03	1.94E-03	0.00E+00	1.31E-04	4.35E-04	0.00E+00	7.36E-05	2.73E-04	0.00E+00
1749	587781.9	4154042	0.000846	0.002008	0.00E+00	1.72E-03	2.03E-03	0.00E+00	1.37E-04	4.57E-04	0.00E+00	7.73E-05	2.86E-04	0.00E+00
1750	587834.8	4154080	0.001141	0.002707	0.00E+00	2.32E-03	2.74E-03	0.00E+00	1.85E-04	6.16E-04	0.00E+00	1.04E-04	3.86E-04	0.00E+00
1751	587848	4154089	0.001214	0.00288	0.00E+00	2.47E-03	2.92E-03	0.00E+00	1.97E-04	6.55E-04	0.00E+00	1.11E-04	4.10E-04	0.00E+00
1752	587861.3	4154099	0.001285	0.00305	0.00E+00	2.61E-03	3.09E-03	0.00E+00	2.08E-04	6.94E-04	0.00E+00	1.17E-04	4.34E-04	0.00E+00
1753	587874.5	4154108	0.001352	0.003209	0.00E+00	2.75E-03	3.25E-03	0.00E+00	2.19E-04	7.30E-04	0.00E+00	1.23E-04	4.57E-04	0.00E+00
1754	587887.7	4154117	0.001414	0.003356	0.00E+00	2.87E-03	3.40E-03	0.00E+00	2.29E-04	7.63E-04	0.00E+00	1.29E-04	4.78E-04	0.00E+00
1755	587901	4154127	0.001471	0.003491	0.00E+00	2.99E-03	3.53E-03	0.00E+00	2.38E-04	7.94E-04	0.00E+00	1.34E-04	4.97E-04	0.00E+00
1756	587601.1	4154072	0.000829	0.001968	0.00E+00	1.69E-03	1.99E-03	0.00E+00	1.34E-04	4.48E-04	0.00E+00	7.57E-05	2.80E-04	0.00E+00
1757	587610.4	4154058	0.000756	0.001793	0.00E+00	1.54E-03	1.81E-03	0.00E+00	1.22E-04	4.08E-04	0.00E+00	6.90E-05	2.55E-04	0.00E+00
1758	587626.3	4154055	0.000747	0.001772	0.00E+00	1.52E-03	1.79E-03	0.00E+00	1.21E-04	4.03E-04	0.00E+00	6.82E-05	2.52E-04	0.00E+00
1759	587642.2	4154052	0.000739	0.001754	0.00E+00	1.50E-03	1.78E-03	0.00E+00	1.20E-04	3.99E-04	0.00E+00	6.75E-05	2.50E-04	0.00E+00
1760	587674	4154047	0.000731	0.001736	0.00E+00	1.49E-03	1.76E-03	0.00E+00	1.18E-04	3.95E-04	0.00E+00	6.68E-05	2.47E-04	0.00E+00
1761	587689.9	4154044	0.000732	0.001738	0.00E+00	1.49E-03	1.76E-03	0.00E+00	1.19E-04	3.95E-04	0.00E+00	6.69E-05	2.48E-04	0.00E+00
1762	587737.7	4154035	0.000749	0.001779	0.00E+00	1.52E-03	1.80E-03	0.00E+00	1.21E-04	4.05E-04	0.00E+00	6.84E-05	2.53E-04	0.00E+00
1763	587753.6	4154032	0.000755	0.001792	0.00E+00	1.53E-03	1.81E-03	0.00E+00	1.22E-04	4.08E-04	0.00E+00	6.89E-05	2.55E-04	0.00E+00
1764	587769.5	4154029	0.000762	0.001807	0.00E+00	1.55E-03	1.83E-03	0.00E+00	1.23E-04	4.11E-04	0.00E+00	6.95E-05	2.57E-04	0.00E+00
1765	587810.5	4154051	0.000928	0.002203	0.00E+00	1.89E-03	2.23E-03	0.00E+00	1.50E-04	5.01E-04	0.00E+00	8.47E-05	3.14E-04	0.00E+00
1766	587823.7	4154061	0.000997	0.002365	0.00E+00	2.03E-03	2.39E-03	0.00E+00	1.61E-04	5.38E-04	0.00E+00	9.10E-05	3.37E-04	0.00E+00
1767	587836.9	4154070	0.001065	0.002526	0.00E+00	2.16E-03	2.56E-03	0.00E+00	1.72E-04	5.75E-04	0.00E+00	9.72E-05	3.60E-04	0.00E+00
1768	587850.1	4154079	0.001131	0.002684	0.00E+00	2.30E-03	2.72E-03	0.00E+00	1.83E-04	6.10E-04	0.00E+00	1.03E-04	3.82E-04	0.00E+00
1769	587863.3	4154089	0.001195	0.002836	0.00E+00	2.43E-03	2.87E-03	0.00E+00	1.94E-04	6.45E-04	0.00E+00	1.09E-04	4.04E-04	0.00E+00
1770	587876.5	4154098	0.001258	0.002985	0.00E+00	2.56E-03	3.02E-03	0.00E+00	2.04E-04	6.79E-04	0.00E+00	1.15E-04	4.25E-04	0.00E+00
1771	587889.7	4154107	0.001316	0.003123	0.00E+00	2.67E-03	3.16E-03	0.00E+00	2.13E-04	7.10E-04	0.00E+00	1.20E-04	4.45E-04	0.00E+00
1772	587902.9	4154117	0.001369	0.003248	0.00E+00	2.78E-03	3.29E-03	0.00E+00	2.22E-04	7.39E-04	0.00E+00	1.25E-04	4.63E-04	0.00E+00
1773	587595.6	4154064	0.000781	0.001854	0.00E+00	1.59E-03	1.88E-03	0.00E+00	1.26E-04	4.22E-04	0.00E+00	7.13E-05	2.64E-04	0.00E+00
1774	587604.9	4154050	0.000714	0.001695	0.00E+00	1.45E-03	1.72E-03	0.00E+00	1.16E-04	3.85E-04	0.00E+00	6.52E-05	2.41E-04	0.00E+00
1775	587620.8	4154047	0.000705	0.001674	0.00E+00	1.43E-03	1.69E-03	0.00E+00	1.14E-04	3.81E-04	0.00E+00	6.44E-05	2.38E-04	0.00E+00
1776	587636.7	4154044	0.000698	0.001656	0.00E+00	1.42E-03	1.68E-03	0.00E+00	1.13E-04	3.77E-04	0.00E+00	6.37E-05	2.36E-04	0.00E+00
1777	587668.4	4154038	0.000689	0.001635	0.00E+00	1.40E-03	1.65E-03	0.00E+00	1.12E-04	3.72E-04	0.00E+00	6.29E-05	2.33E-04	0.00E+00
1778	587684.3	4154035	0.000689	0.001634	0.00E+00	1.40E-03	1.65E-03	0.00E+00	1.12E-04	3.72E-04	0.00E+00	6.29E-05	2.33E-04	0.00E+00
1779	587732	4154027	0.000703	0.001668	0.00E+00	1.43E-03	1.69E-03	0.00E+00	1.14E-04	3.79E-04	0.00E+00	6.42E-05	2.38E-04	0.00E+00
1780	587747.8	4154024	0.000709	0.001683	0.00E+00	1.44E-03	1.70E-03	0.00E+00	1.15E-04	3.83E-04	0.00E+00	6.47E-05	2.40E-04	0.00E+00
1781	587763.7	4154021	0.000715	0.001698	0.00E+00	1.45E-03	1.72E-03	0.00E+00	1.16E-04	3.86E-04	0.00E+00	6.53E-05	2.42E-04	0.00E+00
1782	587799.4	4154032	0.000809	0.00192	0.00E+00	1.64E-03	1.94E-03	0.00E+00	1.31E-04	4.37E-04	0.00E+00	7.39E-05	2.73E-04	0.00E+00
1783	587812.6	4154042	0.000871	0.002067	0.00E+00	1.77E-03	2.09E-03	0.00E+00	1.41E-04	4.70E-04	0.00E+00	7.95E-05	2.94E-04	0.00E+00
1784	587825.7	4154051	0.000934	0.002216	0.00E+00	1.90E-03	2.24E-03	0.00E+00	1.51E-04	5.04E-04	0.00E+00	8.52E-05	3.16E-04	0.00E+00
1785	587852.1	4154069	0.001057	0.002508	0.00E+00	2.15E-03	2.54E-03	0.00E+00	1.71E-04	5.71E-04	0.00E+00	9.65E-05	3.57E-04	0.00E+00
1786	587865.3	4154079	0.001116	0.002648	0.00E+00	2.27E-03	2.68E-03	0.00E+00	1.81E-04	6.02E-04	0.00E+00	1.02E-04	3.77E-04	0.00E+00
1787	587878.4	4154088	0.001172	0.002782	0.00E+00	2.38E-03	2.82E-03	0.00E+00	1.90E-04	6.33E-04	0.00E+00	1.07E-04	3.96E-04	0.00E+00
1788	587891.6	4154097	0.001227	0.002911	0.00E+00	2.49E-03	2.95E-03	0.00E+00	1.99E-04	6.62E-04	0.00E+00	1.12E-04	4.15E-04	0.00E+00
1789	587904.8	4154107	0.001277	0.00303	0.00E+00	2.60E-03	3.07E-03	0.00E+00	2.07E-04	6.89E-04	0.00E+00	1.17E-04	4.32E-04	0.00E+00
1790	587918	4154116	0.001322	0.003137	0.00E+00	2.69E-03	3.18E-03	0.00E+00	2.14E-04	7.14E-04	0.00E+00	1.21E-04	4.47E-04	0.00E+00
1791	587590.2	4154056	0.000738	0.001751	0.00E+00	1.50E-03	1.77E-03	0.00E+00	1.19E-04	3.98E-04	0.00E+00	6.73E-05	2.49E-04	0.00E+00
1792	587599.5	4154041	0.000677	0.001606	0.00E+00	1.38E-03	1.63E-03	0.00E+00	1.10E-04	3.65E-04	0.00E+00	6.18E-05	2.29E-04	0.00E+00
1793	587615.3	4154039	0.000668	0.001585	0.00E+00	1.36E-03	1.60E-03	0.00E+00	1.08E-04	3.61E-04	0.00E+00	6.10E-05	2.26E-04	0.00E+00
1794	587631.2	4154036	0.00066	0.001567	0.00E+00	1.34E-03	1.59E-03	0.00E+00	1.07E-04	3.56E-04	0.00E+00	6.03E-05	2.23E-04	0.00E+00
1795	587662.9	4154030	0.00065	0.001543	0.00E+00	1.32E-03	1.56E-03	0.00E+00	1.05E-04	3.51E-04	0.00E+00	5.94E-05	2.20E-04	0.00E+00
1796	587678.7	4154027	0.000649	0.00154	0.00E+00	1.32E-03	1.56E-03	0.00E+00	1.05E-04	3.50E-04	0.00E+00	5.93E-05	2.19E-04	0.00E+00
1797	587726.3	4154018	0.00066	0.001567	0.00E+00	1.34E-03	1.59E-03	0.00E+00	1.07E-04	3.56E-04	0.00E+00	6.03E-05	2.23E-04	0.00E+00
1798	587742.1	4154016	0.000667	0.001583	0.00E+00	1.36E-03	1.60E-03	0.00E+00	1.08E-04	3.60E-04	0.00E+00	6.09E-05	2.25E-04	0.00E+00
1799	587758	4154013	0.000673	0.001598	0.00E+00	1.37E-03	1.62E-03	0.00E+00	1.09E-04	3.64E-04	0.00E+00	6.15E-05	2.28E-04	0.00E+00
1800	587788.4	4154013	0.000707	0.001678	0.00E+00	1.44E-03	1.70E-03	0.00E+00	1.15E-04	3.82E-04	0.00E+00	6.46E-05	2.39E-04	0.00E+00
1801	587801.5	4154022	0.000762	0.001809	0.00E+00	1.55E-03	1.83E-03	0.00E+00	1.23E-04	4.11E-04	0.00E+00	6.96E-05	2.58E-04	0.00E+00
1802	587814.7	4154032	0.000819	0.001944	0.00E+00	1.66E-03	1.97E-03	0.00E+00	1.33E-04	4.42E-04	0.00E+00	7.48E-05	2.77E-04	0.00E+00
1803	587827.8	4154041	0.000877	0.002081	0.00E+00	1.78E-03	2.11E-03	0.00E+00	1.42E-04	4.73E-04	0.00E+00	8.00E-05	2.96E-04	0.00E+00
1804	587841	4154050	0.000934	0.002217	0.00E+00	1.90E-03	2.24E-03	0.00E+00	1.51E-04	5.04E-04	0.00E+00	8.53E-05	3.16E-04	0.00E+00
1805	587854.1	4154060	0.00099	0.00235	0.00E+00	2.01E-03	2.38E-03	0.00E+00	1.60E-04	5.35E-04	0.00E+00	9.04E-05	3.35E-04	0.00E+00
1806	587867.3	4154069	0.001045	0.002479	0.00E+00	2.12E-03	2.51E-03	0.00E+00	1.69E-04	5.64E-04	0.00E+00	9.54E-05	3.53E-04	0.00E+00
1807	587880.4	4154078	0.001096	0.002602	0.00E+00	2.23E-03	2.63E-03	0.00E+00	1.78E-04	5.92E-04	0.00E+00	1.00E-04	3.71E-04	0.00E+00
1808	587893.6	4154087	0.001146	0.002719	0.00E+00	2.33E-03	2.75E-03	0.00E+00	1.86E-04	6.18E-04	0.00E+00	1.05E-04	3.87E-04	0.00E+00
1809	587906.8	4154097	0.001193	0.002831	0.00E+00	2.42E-03	2.87E-03	0.00E+00	1.93E-04	6.44E-04	0.00E+00	1.09E-04	4.03E-04	0.00E+00
1810	587919.9	4154106	0.001236	0.002934	0.00E+00	2.51E-03	2.97E-03	0.00E+00	2.00E-04	6.67E-04	0.00E+00	1.13E-04	4.18E-04	0.00E+00
1811	587584.7	4154047	0.000698	0.001658	0.00E+00	1.42E-03	1.68E-03	0.00E+00	1.13E-04	3.77E-04	0.00E+00	6.38E-05	2.36E-04	0.00E+00
1812	587594	4154033	0.000642	0.001524	0.00E+00	1.31E-03	1.54E-03	0.00E+00	1.04E-04	3.47E-04	0.00E+00	5.86E-05	2.17E-04	0.00E+00
1813	587609.8	4154030	0.000634	0.001504	0.00E+00	1.29E-03	1.52E-03	0.00E+00	1.03E-04	3.42E-04	0.00E+00	5.79E-05	2.14E-04	0.00E+00
1814	587625.7	4154027	0.000626	0.001485	0.00E+00	1.27E-03	1.50E-03	0.00E+00	1.01E-04	3.38E-04	0.00E+00	5.71E-05	2.12E-04	0.00E+00
1815	587657.3	4154022	0.000615	0.00146	0.00E+00	1.25E-03	1.48E-03	0.00E+00	9.96E-05	3.32E-04	0.00E+00	5.62E-05	2.08E-04	0.00E+00
1816	587673.1	4154019	0.000613	0.001456	0.00E+00	1.25E-03	1.47E-03	0.00E+00	9.93E-05	3.31E-04	0.00E+00	5.60E-05	2.07E-04	0.00E+00
1817	587720.6	4154010	0.000622	0.001475	0.00E+00	1.26E-03	1.49E-03	0.00E+00	1.01E-04	3.36E-04	0.00E+00	5.68E-05	2.10E-04	0.00E+00

1818	587736.5	4154007	0.000628	0.001489	0.00E+00	1.28E-03	1.51E-03	0.00E+00	1.02E-04	3.39E-04	0.00E+00	5.73E-05	2.12E-04	0.00E+00
1819	587752.3	4154004	0.000634	0.001505	0.00E+00	1.29E-03	1.52E-03	0.00E+00	1.03E-04	3.42E-04	0.00E+00	5.79E-05	2.14E-04	0.00E+00
1820	587790.5	4154003	0.000669	0.001587	0.00E+00	1.36E-03	1.61E-03	0.00E+00	1.08E-04	3.61E-04	0.00E+00	6.11E-05	2.26E-04	0.00E+00
1821	587803.6	4154013	0.000719	0.001707	0.00E+00	1.46E-03	1.73E-03	0.00E+00	1.16E-04	3.88E-04	0.00E+00	6.57E-05	2.43E-04	0.00E+00
1822	587816.8	4154022	0.000772	0.001832	0.00E+00	1.57E-03	1.85E-03	0.00E+00	1.25E-04	4.17E-04	0.00E+00	7.05E-05	2.61E-04	0.00E+00
1823	587829.9	4154031	0.000825	0.001958	0.00E+00	1.68E-03	1.98E-03	0.00E+00	1.34E-04	4.45E-04	0.00E+00	7.53E-05	2.79E-04	0.00E+00
1824	587843	4154040	0.000878	0.002084	0.00E+00	1.78E-03	2.11E-03	0.00E+00	1.42E-04	4.74E-04	0.00E+00	8.02E-05	2.97E-04	0.00E+00
1825	587869.3	4154059	0.00098	0.002326	0.00E+00	1.99E-03	2.35E-03	0.00E+00	1.59E-04	5.29E-04	0.00E+00	8.95E-05	3.31E-04	0.00E+00
1826	587882.4	4154068	0.001028	0.00244	0.00E+00	2.09E-03	2.47E-03	0.00E+00	1.67E-04	5.55E-04	0.00E+00	9.39E-05	3.48E-04	0.00E+00
1827	587895.6	4154078	0.001074	0.002548	0.00E+00	2.18E-03	2.58E-03	0.00E+00	1.74E-04	5.80E-04	0.00E+00	9.80E-05	3.63E-04	0.00E+00
1828	587908.7	4154087	0.001117	0.00265	0.00E+00	2.27E-03	2.68E-03	0.00E+00	1.81E-04	6.03E-04	0.00E+00	1.02E-04	3.78E-04	0.00E+00
1829	587921.9	4154096	0.001158	0.002748	0.00E+00	2.35E-03	2.78E-03	0.00E+00	1.88E-04	6.25E-04	0.00E+00	1.06E-04	3.91E-04	0.00E+00
1830	587935	4154105	0.001195	0.002836	0.00E+00	2.43E-03	2.87E-03	0.00E+00	1.94E-04	6.45E-04	0.00E+00	1.09E-04	4.04E-04	0.00E+00
1831	587579.3	4154039	0.000662	0.001572	0.00E+00	1.35E-03	1.59E-03	0.00E+00	1.07E-04	3.58E-04	0.00E+00	6.05E-05	2.24E-04	0.00E+00
1832	587588.6	4154025	0.00061	0.001448	0.00E+00	1.24E-03	1.47E-03	0.00E+00	9.88E-05	3.29E-04	0.00E+00	5.57E-05	2.06E-04	0.00E+00
1833	587604.4	4154022	0.000602	0.001429	0.00E+00	1.22E-03	1.45E-03	0.00E+00	9.75E-05	3.25E-04	0.00E+00	5.50E-05	2.04E-04	0.00E+00
1834	587620.2	4154019	0.000594	0.001411	0.00E+00	1.21E-03	1.43E-03	0.00E+00	9.63E-05	3.21E-04	0.00E+00	5.43E-05	2.01E-04	0.00E+00
1835	587651.8	4154013	0.000583	0.001385	0.00E+00	1.19E-03	1.40E-03	0.00E+00	9.45E-05	3.15E-04	0.00E+00	5.33E-05	1.97E-04	0.00E+00
1836	587667.6	4154010	0.000581	0.001379	0.00E+00	1.18E-03	1.40E-03	0.00E+00	9.41E-05	3.14E-04	0.00E+00	5.30E-05	1.96E-04	0.00E+00
1837	587715	4154002	0.000586	0.001392	0.00E+00	1.19E-03	1.41E-03	0.00E+00	9.50E-05	3.17E-04	0.00E+00	5.35E-05	1.98E-04	0.00E+00
1838	587730.8	4153999	0.000592	0.001404	0.00E+00	1.20E-03	1.42E-03	0.00E+00	9.58E-05	3.19E-04	0.00E+00	5.40E-05	2.00E-04	0.00E+00
1839	587746.6	4153996	0.000598	0.001419	0.00E+00	1.22E-03	1.44E-03	0.00E+00	9.68E-05	3.23E-04	0.00E+00	5.46E-05	2.02E-04	0.00E+00
1840	587778.2	4153990	0.000609	0.001446	0.00E+00	1.24E-03	1.46E-03	0.00E+00	9.87E-05	3.29E-04	0.00E+00	5.56E-05	2.06E-04	0.00E+00
1841	587792.7	4153994	0.000634	0.001504	0.00E+00	1.29E-03	1.52E-03	0.00E+00	1.03E-04	3.42E-04	0.00E+00	5.79E-05	2.14E-04	0.00E+00
1842	587805.8	4154003	0.00068	0.001614	0.00E+00	1.38E-03	1.63E-03	0.00E+00	1.10E-04	3.67E-04	0.00E+00	6.21E-05	2.30E-04	0.00E+00
1843	587818.9	4154012	0.000729	0.001729	0.00E+00	1.48E-03	1.75E-03	0.00E+00	1.18E-04	3.93E-04	0.00E+00	6.65E-05	2.46E-04	0.00E+00
1844	587832	4154021	0.000778	0.001846	0.00E+00	1.58E-03	1.87E-03	0.00E+00	1.26E-04	4.20E-04	0.00E+00	7.10E-05	2.63E-04	0.00E+00
1845	587845.1	4154031	0.000827	0.001963	0.00E+00	1.68E-03	1.99E-03	0.00E+00	1.34E-04	4.46E-04	0.00E+00	7.55E-05	2.80E-04	0.00E+00
1846	587858.2	4154040	0.000875	0.002077	0.00E+00	1.78E-03	2.10E-03	0.00E+00	1.42E-04	4.72E-04	0.00E+00	7.99E-05	2.96E-04	0.00E+00
1847	587871.4	4154049	0.000922	0.002187	0.00E+00	1.87E-03	2.21E-03	0.00E+00	1.49E-04	4.98E-04	0.00E+00	8.42E-05	3.12E-04	0.00E+00
1848	587884.5	4154058	0.000966	0.002293	0.00E+00	1.96E-03	2.32E-03	0.00E+00	1.56E-04	5.22E-04	0.00E+00	8.82E-05	3.27E-04	0.00E+00
1849	587897.6	4154068	0.001009	0.002394	0.00E+00	2.05E-03	2.42E-03	0.00E+00	1.63E-04	5.44E-04	0.00E+00	9.21E-05	3.41E-04	0.00E+00
1850	587910.7	4154077	0.001049	0.002489	0.00E+00	2.13E-03	2.52E-03	0.00E+00	1.70E-04	5.66E-04	0.00E+00	9.57E-05	3.54E-04	0.00E+00
1851	587923.8	4154086	0.001086	0.002578	0.00E+00	2.21E-03	2.61E-03	0.00E+00	1.76E-04	5.86E-04	0.00E+00	9.92E-05	3.67E-04	0.00E+00
1852	587936.9	4154096	0.001122	0.002662	0.00E+00	2.28E-03	2.69E-03	0.00E+00	1.82E-04	6.06E-04	0.00E+00	1.02E-04	3.79E-04	0.00E+00
1853	587573.9	4154030	0.000629	0.001493	0.00E+00	1.28E-03	1.51E-03	0.00E+00	1.02E-04	3.40E-04	0.00E+00	5.74E-05	2.13E-04	0.00E+00
1854	587583.1	4154016	0.000581	0.001379	0.00E+00	1.18E-03	1.40E-03	0.00E+00	9.41E-05	3.14E-04	0.00E+00	5.31E-05	1.96E-04	0.00E+00
1855	587598.9	4154013	0.000573	0.00136	0.00E+00	1.17E-03	1.38E-03	0.00E+00	9.28E-05	3.09E-04	0.00E+00	5.23E-05	1.94E-04	0.00E+00
1856	587614.7	4154011	0.000566	0.001343	0.00E+00	1.15E-03	1.36E-03	0.00E+00	9.16E-05	3.05E-04	0.00E+00	5.17E-05	1.91E-04	0.00E+00
1857	587646.2	4154005	0.000554	0.001316	0.00E+00	1.13E-03	1.33E-03	0.00E+00	8.98E-05	2.99E-04	0.00E+00	5.06E-05	1.87E-04	0.00E+00
1858	587662	4154002	0.000551	0.001308	0.00E+00	1.12E-03	1.32E-03	0.00E+00	8.93E-05	2.98E-04	0.00E+00	5.03E-05	1.86E-04	0.00E+00
1859	587709.4	4153993	0.000554	0.001316	0.00E+00	1.13E-03	1.33E-03	0.00E+00	8.98E-05	2.99E-04	0.00E+00	5.06E-05	1.87E-04	0.00E+00
1860	587725.1	4153991	0.000559	0.001327	0.00E+00	1.14E-03	1.34E-03	0.00E+00	9.05E-05	3.02E-04	0.00E+00	5.10E-05	1.89E-04	0.00E+00
1861	587740.9	4153988	0.000565	0.00134	0.00E+00	1.15E-03	1.36E-03	0.00E+00	9.14E-05	3.05E-04	0.00E+00	5.15E-05	1.91E-04	0.00E+00
1862	587772.5	4153982	0.000576	0.001368	0.00E+00	1.17E-03	1.38E-03	0.00E+00	9.33E-05	3.11E-04	0.00E+00	5.26E-05	1.95E-04	0.00E+00
1863	587794.8	4153984	0.000602	0.001429	0.00E+00	1.22E-03	1.45E-03	0.00E+00	9.75E-05	3.25E-04	0.00E+00	5.50E-05	2.03E-04	0.00E+00
1864	587807.9	4153993	0.000645	0.00153	0.00E+00	1.31E-03	1.55E-03	0.00E+00	1.04E-04	3.48E-04	0.00E+00	5.89E-05	2.18E-04	0.00E+00
1865	587821	4154002	0.000689	0.001636	0.00E+00	1.40E-03	1.66E-03	0.00E+00	1.12E-04	3.72E-04	0.00E+00	6.29E-05	2.33E-04	0.00E+00
1866	587834.1	4154012	0.000735	0.001744	0.00E+00	1.49E-03	1.77E-03	0.00E+00	1.19E-04	3.97E-04	0.00E+00	6.71E-05	2.48E-04	0.00E+00
1867	587847.2	4154021	0.00078	0.001852	0.00E+00	1.59E-03	1.87E-03	0.00E+00	1.26E-04	4.21E-04	0.00E+00	7.13E-05	2.64E-04	0.00E+00
1868	587860.3	4154030	0.000825	0.001958	0.00E+00	1.68E-03	1.98E-03	0.00E+00	1.34E-04	4.45E-04	0.00E+00	7.53E-05	2.79E-04	0.00E+00
1869	587886.5	4154049	0.00091	0.002159	0.00E+00	1.85E-03	2.19E-03	0.00E+00	1.47E-04	4.91E-04	0.00E+00	8.31E-05	3.08E-04	0.00E+00
1870	587899.6	4154058	0.000949	0.002253	0.00E+00	1.93E-03	2.28E-03	0.00E+00	1.54E-04	5.12E-04	0.00E+00	8.67E-05	3.21E-04	0.00E+00
1871	587912.7	4154067	0.000987	0.002342	0.00E+00	2.01E-03	2.37E-03	0.00E+00	1.60E-04	5.33E-04	0.00E+00	9.01E-05	3.34E-04	0.00E+00
1872	587925.8	4154076	0.001022	0.002425	0.00E+00	2.08E-03	2.45E-03	0.00E+00	1.66E-04	5.52E-04	0.00E+00	9.33E-05	3.45E-04	0.00E+00
1873	587938.9	4154086	0.001055	0.002503	0.00E+00	2.14E-03	2.53E-03	0.00E+00	1.71E-04	5.69E-04	0.00E+00	9.63E-05	3.57E-04	0.00E+00
1874	587952	4154095	0.001085	0.002575	0.00E+00	2.21E-03	2.61E-03	0.00E+00	1.76E-04	5.86E-04	0.00E+00	9.91E-05	3.67E-04	0.00E+00
1875	587568.4	4154022	0.000599	0.001421	0.00E+00	1.22E-03	1.44E-03	0.00E+00	9.70E-05	3.23E-04	0.00E+00	5.47E-05	2.02E-04	0.00E+00
1876	587577.6	4154008	0.000554	0.001315	0.00E+00	1.13E-03	1.33E-03	0.00E+00	8.98E-05	2.99E-04	0.00E+00	5.06E-05	1.87E-04	0.00E+00
1877	587593.4	4154005	0.000547	0.001297	0.00E+00	1.11E-03	1.31E-03	0.00E+00	8.85E-05	2.95E-04	0.00E+00	4.99E-05	1.85E-04	0.00E+00
1878	587609.2	4154002	0.000539	0.00128	0.00E+00	1.10E-03	1.30E-03	0.00E+00	8.73E-05	2.91E-04	0.00E+00	4.92E-05	1.82E-04	0.00E+00
1879	587640.7	4153996	0.000528	0.001252	0.00E+00	1.07E-03	1.27E-03	0.00E+00	8.55E-05	2.85E-04	0.00E+00	4.82E-05	1.78E-04	0.00E+00
1880	587656.5	4153994	0.000524	0.001244	0.00E+00	1.07E-03	1.26E-03	0.00E+00	8.49E-05	2.83E-04	0.00E+00	4.79E-05	1.77E-04	0.00E+00
1881	587703.7	4153985	0.000525	0.001247	0.00E+00	1.07E-03	1.26E-03	0.00E+00	8.51E-05	2.84E-04	0.00E+00	4.80E-05	1.78E-04	0.00E+00
1882	587719.5	4153982	0.000529	0.001256	0.00E+00	1.08E-03	1.27E-03	0.00E+00	8.57E-05	2.86E-04	0.00E+00	4.83E-05	1.79E-04	0.00E+00
1883	587735.3	4153979	0.000534	0.001267	0.00E+00	1.09E-03	1.28E-03	0.00E+00	8.65E-05	2.88E-04	0.00E+00	4.87E-05	1.80E-04	0.00E+00
1884	587766.8	4153974	0.000545	0.001294	0.00E+00	1.11E-03	1.31E-03	0.00E+00	8.83E-05	2.94E-04	0.00E+00	4.98E-05	1.84E-04	0.00E+00
1885	587782.6	4153971	0.00055	0.001306	0.00E+00	1.12E-03	1.32E-03	0.00E+00	8.91E-05	2.97E-04	0.00E+00	5.03E-05	1.86E-04	0.00E+00
1886	587797	4153974	0.000572	0.001358	0.00E+00	1.16E-03	1.37E-03	0.00E+00	9.27E-05	3.09E-04	0.00E+00	5.22E-05	1.93E-04	0.00E+00
1887	587810.1	4153983	0.000612	0.001453	0.00E+00	1.24E-03	1.47E-03	0.00E+00	9.92E-05	3.31E-04	0.00E+00	5.59E-05	2.07E-04	0.00E+00
1888	587823.1	4153993	0.000653	0.00155	0.00E+00	1.33E-03	1.57E-03	0.00E+00	1.06E-04	3.53E-04	0.00E+00	5.96E-05	2.21E-04	0.00E+00
1889	587836.2	4154002	0.000695	0.00165	0.00E+00	1.41E-03	1.67E-03	0.00E+00	1.13E-04	3.75E-04	0.00E+00	6.35E-05	2.35E-04	0.00E+00
1890	587849.3	4154011	0.000738	0.001751	0.00E+00	1.50E-03	1.77E-03	0.00E+00	1.19E-04	3.98E-04	0.00E+00	6.74E-05	2.49E-04	0.00E+00
1891	587862.4	4154020	0.000779	0.00185	0.00E+00	1.58E-03	1.87E-03	0.00E+00	1.26E-04	4.21E-04	0.00E+00	7.12E-05	2.63E-04	0.00E+00
1892	587875.5	4154029	0.00082	0.001946	0.00E+00	1.67E-03	1.97E-03	0.00E+00	1.33E-04	4.43E-04	0.00E+00	7.49E-05	2.77E-04	0.00E+00
1893	587888.5	4154039	0.000859	0.002037	0.00E+00	1.75E-03	2.06E-03	0.00E+00	1.39E-04	4.63E-04	0.00E+00	7.84E-05	2.90E-04	0.00E+00
1894	587901.6	4154048	0.000895	0.002125	0.00E+00	1.82E-03	2.15E-03	0.00E+00	1.45E-04	4.83E-04	0.00E+00	8.17E-05	3.03E-04	0.00E+00
1895	587914.7	4154057	0.00093	0.002207	0.00E+00	1.89E-03	2.23E-03	0.00E+00	1.51E-04	5.02E-04	0.00E+00	8.49E-05	3.14E-04	0.00E+00
1896	587927.8	4154066	0.000963	0.002286	0.00E+00	1.96E-03	2.31E-03	0.00E+00	1.56E-04	5.20E-04	0.00E+00	8.79E-05	3.26E-04	0.00E+00
1897	587940.9	4154076	0.000994	0.002359	0.00E+00	2.02E-03	2.39E-03	0.00E+00	1.61E-04	5.37E-04	0.00E+00	9.08E-05	3.36E-04	0.00E+00
1898	587953.9	4154085	0.001023	0.002427	0.00E+00	2.08E-03	2.46E-03	0.00E+00	1.66E-04	5.52E-04	0.00E+00	9.34E-05	3.46E-04	0.00E+00
1899	587563	4154014	0.000571	0.001355	0.00E+00	1.16E-03	1.37E-03	0.00E+00	9.25E-05	3.08E-04	0.00E+00	5.21E-05	1.93E-04	0.00E+00
1900	587572.2	4153999	0.000529	0.001256	0.00E+00	1.08E-03	1.27E-03	0.00E+00	8.57E-05	2.86E-04	0.00E+00	4.83E-05	1.79E-04	0.00E+00
1901	587587.9	4153997	0.000522	0.001239	0.00E+00	1.06E-03	1.25E-03	0.00E+00	8.45E-05	2.82E-04	0.00E+00	4.77E-05	1.76E-04	0.00E+00
1902	587603.7	4153994	0.000515	0.001222	0.00E+00	1.05E-03	1.24E-03	0.00E+00	8.34E-05	2.78E-04	0.00E+00	4.70E-05	1.74E-04	0.00E+00
1903	587635.2	4153988	0.000503	0.001194	0.00E+00	1.02E-03	1.21E-03	0.00E+00	8.15E-05	2.72E-04	0.00E+00	4.60E-05	1.70E-04	0.00E+00
1904	587650.9	4153985	0.0005	0.001185	0.00E+00	1.02E-03	1.20E-03	0.00E+00	8.09E-05	2.70E-04	0.00E+00	4.56E-05	1.69E-04	0.00E+00
1905	587713.9	4153974	0.000502	0.001191	0.00E+00	1.02E-03	1.21E-03	0.00E+00	8.12E-05	2.71E-04	0.00E+00	4.58E-05	1.70E-04	0.00E+00
1906	587729.6	4153971	0.000506	0.001201	0.00E+00	1.03E-03	1.22E-03	0.00E+00	8.19E-05	2.73E-04	0.00E+00	4.62E-05	1.71E-04	0.00E+00
1907	587761.1	4153965	0.000516	0.001225	0.00E+00	1.05E-03	1.24E-03	0.00E+00	8.36E-05	2.79E-04	0.00E+00	4.71E-05	1.75E-04	0.00E+00
1908	587776.9	4153962	0.000522	0.001238	0.00E+00	1.06E-03	1.25E-03	0.00E+00	8.45E-05	2.82E-04	0.00E+00	4.76E-05	1.76E-04	0.00E+00

1909	587799.1	4153964	0.000544	0.001292	0.00E+00		1.11E-03	1.31E-03	0.00E+00		8.82E-05	2.94E-04	0.00E+00		4.97E-05	1.84E-04	0.00E+00
1910	587812.2	4153973	0.000582	0.001381	0.00E+00		1.18E-03	1.40E-03	0.00E+00		9.42E-05	3.14E-04	0.00E+00		5.31E-05	1.97E-04	0.00E+00
1911	587825.3	4153983	0.00062	0.001472	0.00E+00		1.26E-03	1.49E-03	0.00E+00		1.00E-04	3.35E-04	0.00E+00		5.66E-05	2.10E-04	0.00E+00
1912	587838.3	4153992	0.000659	0.001564	0.00E+00		1.34E-03	1.58E-03	0.00E+00		1.07E-04	3.56E-04	0.00E+00		6.02E-05	2.23E-04	0.00E+00
1913	587851.4	4154001	0.000699	0.001658	0.00E+00		1.42E-03	1.68E-03	0.00E+00		1.13E-04	3.77E-04	0.00E+00		6.38E-05	2.36E-04	0.00E+00
1914	587864.5	4154010	0.000738	0.00175	0.00E+00		1.50E-03	1.77E-03	0.00E+00		1.19E-04	3.98E-04	0.00E+00		6.73E-05	2.49E-04	0.00E+00
1915	587877.5	4154020	0.000775	0.00184	0.00E+00		1.58E-03	1.86E-03	0.00E+00		1.26E-04	4.19E-04	0.00E+00		7.08E-05	2.62E-04	0.00E+00
1916	587903.6	4154038	0.000846	0.002007	0.00E+00		1.72E-03	2.03E-03	0.00E+00		1.37E-04	4.57E-04	0.00E+00		7.72E-05	2.86E-04	0.00E+00
1917	587916.7	4154047	0.000879	0.002085	0.00E+00		1.79E-03	2.11E-03	0.00E+00		1.42E-04	4.74E-04	0.00E+00		8.02E-05	2.97E-04	0.00E+00
1918	587929.8	4154057	0.000909	0.002158	0.00E+00		1.85E-03	2.18E-03	0.00E+00		1.47E-04	4.91E-04	0.00E+00		8.30E-05	3.07E-04	0.00E+00
1919	587942.8	4154066	0.000939	0.002227	0.00E+00		1.91E-03	2.25E-03	0.00E+00		1.52E-04	5.07E-04	0.00E+00		8.57E-05	3.17E-04	0.00E+00
1920	587955.9	4154075	0.000966	0.002292	0.00E+00		1.96E-03	2.32E-03	0.00E+00		1.56E-04	5.21E-04	0.00E+00		8.82E-05	3.26E-04	0.00E+00
1921	587969	4154084	0.00099	0.002351	0.00E+00		2.01E-03	2.38E-03	0.00E+00		1.60E-04	5.35E-04	0.00E+00		9.04E-05	3.35E-04	0.00E+00
1922	587557.5	4154005	0.000545	0.001293	0.00E+00		1.11E-03	1.31E-03	0.00E+00		8.83E-05	2.94E-04	0.00E+00		4.98E-05	1.84E-04	0.00E+00
1923	587566.7	4153991	0.000506	0.001201	0.00E+00		1.03E-03	1.22E-03	0.00E+00		8.20E-05	2.73E-04	0.00E+00		4.62E-05	1.71E-04	0.00E+00
1924	587582.5	4153988	0.000499	0.001185	0.00E+00		1.01E-03	1.20E-03	0.00E+00		8.08E-05	2.69E-04	0.00E+00		4.56E-05	1.69E-04	0.00E+00
1925	587598.2	4153985	0.000492	0.001168	0.00E+00		1.00E-03	1.18E-03	0.00E+00		7.97E-05	2.66E-04	0.00E+00		4.49E-05	1.66E-04	0.00E+00
1926	587629.6	4153980	0.000481	0.001141	0.00E+00		9.77E-04	1.15E-03	0.00E+00		7.79E-05	2.60E-04	0.00E+00		4.39E-05	1.62E-04	0.00E+00
1927	587645.4	4153977	0.000477	0.001131	0.00E+00		9.69E-04	1.15E-03	0.00E+00		7.72E-05	2.57E-04	0.00E+00		4.35E-05	1.61E-04	0.00E+00
1928	587755.4	4153957	0.00049	0.001162	0.00E+00		9.95E-04	1.18E-03	0.00E+00		7.93E-05	2.64E-04	0.00E+00		4.47E-05	1.66E-04	0.00E+00
1929	587771.2	4153954	0.000495	0.001174	0.00E+00		1.01E-03	1.19E-03	0.00E+00		8.01E-05	2.67E-04	0.00E+00		4.52E-05	1.67E-04	0.00E+00
1930	587786.9	4153951	0.0005	0.001186	0.00E+00		1.02E-03	1.20E-03	0.00E+00		8.09E-05	2.70E-04	0.00E+00		4.56E-05	1.69E-04	0.00E+00
1931	587801.3	4153954	0.000519	0.001231	0.00E+00		1.05E-03	1.25E-03	0.00E+00		8.40E-05	2.80E-04	0.00E+00		4.74E-05	1.75E-04	0.00E+00
1932	587814.3	4153964	0.000554	0.001314	0.00E+00		1.13E-03	1.33E-03	0.00E+00		8.97E-05	2.99E-04	0.00E+00		5.06E-05	1.87E-04	0.00E+00
1933	587827.4	4153973	0.00059	0.0014	0.00E+00		1.20E-03	1.42E-03	0.00E+00		9.55E-05	3.18E-04	0.00E+00		5.38E-05	1.99E-04	0.00E+00
1934	587840.4	4153982	0.000626	0.001485	0.00E+00		1.27E-03	1.50E-03	0.00E+00		1.01E-04	3.38E-04	0.00E+00		5.71E-05	2.12E-04	0.00E+00
1935	587853.5	4153991	0.000663	0.001573	0.00E+00		1.35E-03	1.59E-03	0.00E+00		1.07E-04	3.58E-04	0.00E+00		6.05E-05	2.24E-04	0.00E+00
1936	587866.5	4154001	0.000699	0.001659	0.00E+00		1.42E-03	1.68E-03	0.00E+00		1.13E-04	3.77E-04	0.00E+00		6.38E-05	2.36E-04	0.00E+00
1937	587879.6	4154010	0.000734	0.001743	0.00E+00		1.49E-03	1.76E-03	0.00E+00		1.19E-04	3.96E-04	0.00E+00		6.71E-05	2.48E-04	0.00E+00
1938	587892.6	4154019	0.000768	0.001823	0.00E+00		1.56E-03	1.85E-03	0.00E+00		1.24E-04	4.15E-04	0.00E+00		7.01E-05	2.60E-04	0.00E+00
1939	587905.7	4154028	0.000801	0.0019	0.00E+00		1.63E-03	1.92E-03	0.00E+00		1.30E-04	4.32E-04	0.00E+00		7.31E-05	2.71E-04	0.00E+00
1940	587918.7	4154037	0.000831	0.001973	0.00E+00		1.69E-03	2.00E-03	0.00E+00		1.35E-04	4.49E-04	0.00E+00		7.59E-05	2.81E-04	0.00E+00
1941	587931.8	4154047	0.00086	0.002041	0.00E+00		1.75E-03	2.07E-03	0.00E+00		1.39E-04	4.64E-04	0.00E+00		7.85E-05	2.91E-04	0.00E+00
1942	587944.8	4154056	0.000887	0.002106	0.00E+00		1.80E-03	2.13E-03	0.00E+00		1.44E-04	4.79E-04	0.00E+00		8.10E-05	3.00E-04	0.00E+00
1943	587957.9	4154065	0.000913	0.002167	0.00E+00		1.86E-03	2.19E-03	0.00E+00		1.48E-04	4.93E-04	0.00E+00		8.34E-05	3.09E-04	0.00E+00
1944	587970.9	4154074	0.000937	0.002223	0.00E+00		1.90E-03	2.25E-03	0.00E+00		1.52E-04	5.06E-04	0.00E+00		8.55E-05	3.17E-04	0.00E+00
1945	587552.1	4153997	0.000521	0.001236	0.00E+00		1.06E-03	1.25E-03	0.00E+00		8.43E-05	2.81E-04	0.00E+00		4.75E-05	1.76E-04	0.00E+00

			UnMitigated		T3		T3L3		T4	
				9.60E-02		1.95E-01		1.55E-02		8.76E-03
			Yr 1	Total	Yr 1	Total	Yr 1	Total	Yr 1	Total
1	587690.9	4154241	8.63E-02	8.63E-02	1.75E-01	1.75E-01	1.40E-02	1.40E-02	7.88E-03	7.88E-03
2	587682.7	4154246	9.06E-02	9.06E-02	1.84E-01	1.84E-01	1.47E-02	1.47E-02	8.27E-03	8.27E-03
3	587674.5	4154251	9.36E-02	9.36E-02	1.90E-01	1.90E-01	1.52E-02	1.52E-02	8.54E-03	8.54E-03
4	587666.3	4154257	9.53E-02	9.53E-02	1.94E-01	1.94E-01	1.54E-02	1.54E-02	8.70E-03	8.70E-03
5	587658.1	4154262	9.60E-02	9.60E-02	1.95E-01	1.95E-01	1.55E-02	1.55E-02	8.76E-03	8.76E-03
6	587649.9	4154267	9.56E-02	9.56E-02	1.94E-01	1.94E-01	1.55E-02	1.55E-02	8.73E-03	8.73E-03
7	587641.7	4154272	9.42E-02	9.42E-02	1.91E-01	1.91E-01	1.53E-02	1.53E-02	8.60E-03	8.60E-03
8	587633.5	4154278	9.18E-02	9.18E-02	1.86E-01	1.86E-01	1.49E-02	1.49E-02	8.38E-03	8.38E-03
9	587625.3	4154283	8.83E-02	8.83E-02	1.80E-01	1.80E-01	1.43E-02	1.43E-02	8.06E-03	8.06E-03
10	587685.5	4154232	6.87E-02	6.87E-02	1.40E-01	1.40E-01	1.11E-02	1.11E-02	6.27E-03	6.27E-03
11	587677.3	4154237	7.21E-02	7.21E-02	1.47E-01	1.47E-01	1.17E-02	1.17E-02	6.58E-03	6.58E-03
12	587669.1	4154243	7.46E-02	7.46E-02	1.52E-01	1.52E-01	1.21E-02	1.21E-02	6.81E-03	6.81E-03
13	587660.9	4154248	7.62E-02	7.62E-02	1.55E-01	1.55E-01	1.23E-02	1.23E-02	6.96E-03	6.96E-03
14	587652.7	4154253	7.69E-02	7.69E-02	1.56E-01	1.56E-01	1.25E-02	1.25E-02	7.02E-03	7.02E-03
15	587644.5	4154259	7.69E-02	7.69E-02	1.56E-01	1.56E-01	1.25E-02	1.25E-02	7.02E-03	7.02E-03
16	587636.2	4154264	7.61E-02	7.61E-02	1.55E-01	1.55E-01	1.23E-02	1.23E-02	6.95E-03	6.95E-03
17	587628	4154269	7.45E-02	7.45E-02	1.51E-01	1.51E-01	1.21E-02	1.21E-02	6.80E-03	6.80E-03
18	587619.8	4154275	7.21E-02	7.21E-02	1.46E-01	1.46E-01	1.17E-02	1.17E-02	6.58E-03	6.58E-03
19	587680.1	4154224	5.63E-02	5.63E-02	1.14E-01	1.14E-01	9.12E-03	9.12E-03	5.14E-03	5.14E-03
20	587671.9	4154229	5.90E-02	5.90E-02	1.20E-01	1.20E-01	9.56E-03	9.56E-03	5.39E-03	5.39E-03
21	587663.7	4154234	6.11E-02	6.11E-02	1.24E-01	1.24E-01	9.90E-03	9.90E-03	5.58E-03	5.58E-03
22	587655.4	4154240	6.25E-02	6.25E-02	1.27E-01	1.27E-01	1.01E-02	1.01E-02	5.71E-03	5.71E-03
23	587647.2	4154245	6.33E-02	6.33E-02	1.29E-01	1.29E-01	1.03E-02	1.03E-02	5.78E-03	5.78E-03
24	587639	4154250	6.35E-02	6.35E-02	1.29E-01	1.29E-01	1.03E-02	1.03E-02	5.80E-03	5.80E-03
25	587630.8	4154256	6.31E-02	6.31E-02	1.28E-01	1.28E-01	1.02E-02	1.02E-02	5.76E-03	5.76E-03
26	587622.6	4154261	6.19E-02	6.19E-02	1.26E-01	1.26E-01	1.00E-02	1.00E-02	5.65E-03	5.65E-03
27	587614.4	4154266	6.03E-02	6.03E-02	1.23E-01	1.23E-01	9.77E-03	9.77E-03	5.51E-03	5.51E-03
28	587674.7	4154215	4.72E-02	4.72E-02	9.58E-02	9.58E-02	7.64E-03	7.64E-03	4.31E-03	4.31E-03
29	587666.4	4154221	4.93E-02	4.93E-02	1.00E-01	1.00E-01	7.99E-03	7.99E-03	4.50E-03	4.50E-03
30	587658.2	4154226	5.11E-02	5.11E-02	1.04E-01	1.04E-01	8.28E-03	8.28E-03	4.67E-03	4.67E-03
31	587655.6	4154204	3.62E-02	3.62E-02	7.36E-02	7.36E-02	5.86E-03	5.86E-03	3.31E-03	3.31E-03
32	587647.4	4154209	3.75E-02	3.75E-02	7.63E-02	7.63E-02	6.08E-03	6.08E-03	3.43E-03	3.43E-03
33	587639.2	4154215	3.86E-02	3.86E-02	7.84E-02	7.84E-02	6.25E-03	6.25E-03	3.52E-03	3.52E-03
34	587630.9	4154220	3.93E-02	3.93E-02	7.99E-02	7.99E-02	6.37E-03	6.37E-03	3.59E-03	3.59E-03
35	587622.7	4154225	3.97E-02	3.97E-02	8.08E-02	8.08E-02	6.43E-03	6.43E-03	3.63E-03	3.63E-03
36	587614.5	4154230	3.98E-02	3.98E-02	8.09E-02	8.09E-02	6.45E-03	6.45E-03	3.64E-03	3.64E-03
37	587606.3	4154236	3.96E-02	3.96E-02	8.05E-02	8.05E-02	6.42E-03	6.42E-03	3.62E-03	3.62E-03
38	587598.1	4154241	3.92E-02	3.92E-02	7.96E-02	7.96E-02	6.34E-03	6.34E-03	3.58E-03	3.58E-03
39	587641.9	4154201	3.28E-02	3.28E-02	6.66E-02	6.66E-02	5.31E-03	5.31E-03	2.99E-03	2.99E-03
40	587633.7	4154206	3.37E-02	3.37E-02	6.86E-02	6.86E-02	5.46E-03	5.46E-03	3.08E-03	3.08E-03
41	587625.5	4154211	3.44E-02	3.44E-02	7.00E-02	7.00E-02	5.57E-03	5.57E-03	3.14E-03	3.14E-03
42	587617.3	4154217	3.49E-02	3.49E-02	7.09E-02	7.09E-02	5.65E-03	5.65E-03	3.18E-03	3.18E-03
43	587609.1	4154222	3.51E-02	3.51E-02	7.12E-02	7.12E-02	5.68E-03	5.68E-03	3.20E-03	3.20E-03
44	587600.9	4154227	3.50E-02	3.50E-02	7.11E-02	7.11E-02	5.67E-03	5.67E-03	3.20E-03	3.20E-03
45	587592.7	4154233	3.48E-02	3.48E-02	7.07E-02	7.07E-02	5.63E-03	5.63E-03	3.17E-03	3.17E-03
46	587628.3	4154198	2.98E-02	2.98E-02	6.05E-02	6.05E-02	4.82E-03	4.82E-03	2.72E-03	2.72E-03
47	587620.1	4154203	3.04E-02	3.04E-02	6.19E-02	6.19E-02	4.93E-03	4.93E-03	2.78E-03	2.78E-03
48	587611.9	4154208	3.09E-02	3.09E-02	6.28E-02	6.28E-02	5.00E-03	5.00E-03	2.82E-03	2.82E-03
49	587603.6	4154214	3.11E-02	3.11E-02	6.33E-02	6.33E-02	5.04E-03	5.04E-03	2.84E-03	2.84E-03
50	587595.4	4154219	3.12E-02	3.12E-02	6.35E-02	6.35E-02	5.06E-03	5.06E-03	2.85E-03	2.85E-03
51	587587.2	4154224	3.11E-02	3.11E-02	6.32E-02	6.32E-02	5.04E-03	5.04E-03	2.84E-03	2.84E-03
52	587647.5	4154173	2.39E-02	2.39E-02	4.86E-02	4.86E-02	3.87E-03	3.87E-03	2.18E-03	2.18E-03
53	587606.4	4154200	2.76E-02	2.76E-02	5.61E-02	5.61E-02	4.47E-03	4.47E-03	2.52E-03	2.52E-03
54	587598.2	4154205	2.79E-02	2.79E-02	5.67E-02	5.67E-02	4.52E-03	4.52E-03	2.55E-03	2.55E-03
55	587590	4154211	2.81E-02	2.81E-02	5.70E-02	5.70E-02	4.54E-03	4.54E-03	2.56E-03	2.56E-03
56	587581.8	4154216	2.80E-02	2.80E-02	5.70E-02	5.70E-02	4.54E-03	4.54E-03	2.56E-03	2.56E-03
57	587642.1	4154165	2.15E-02	2.15E-02	4.37E-02	4.37E-02	3.48E-03	3.48E-03	1.96E-03	1.96E-03
58	587633.8	4154170	2.23E-02	2.23E-02	4.54E-02	4.54E-02	3.62E-03	3.62E-03	2.04E-03	2.04E-03
59	587592.8	4154197	2.52E-02	2.52E-02	5.12E-02	5.12E-02	4.08E-03	4.08E-03	2.30E-03	2.30E-03
60	587584.6	4154202	2.54E-02	2.54E-02	5.16E-02	5.16E-02	4.11E-03	4.11E-03	2.32E-03	2.32E-03
61	587576.4	4154208	2.54E-02	2.54E-02	5.16E-02	5.16E-02	4.12E-03	4.12E-03	2.32E-03	2.32E-03
62	587636.6	4154157	1.94E-02	1.94E-02	3.95E-02	3.95E-02	3.15E-03	3.15E-03	1.77E-03	1.77E-03
63	587628.4	4154162	2.02E-02	2.02E-02	4.10E-02	4.10E-02	3.27E-03	3.27E-03	1.84E-03	1.84E-03
64	587620.2	4154167	2.09E-02	2.09E-02	4.25E-02	4.25E-02	3.39E-03	3.39E-03	1.91E-03	1.91E-03
65	587579.1	4154194	2.31E-02	2.31E-02	4.69E-02	4.69E-02	3.74E-03	3.74E-03	2.11E-03	2.11E-03
66	587570.9	4154199	2.32E-02	2.32E-02	4.71E-02	4.71E-02	3.75E-03	3.75E-03	2.11E-03	2.11E-03
67	587631.2	4154148	1.77E-02	1.77E-02	3.60E-02	3.60E-02	2.87E-03	2.87E-03	1.62E-03	1.62E-03
68	587623	4154154	1.84E-02	1.84E-02	3.73E-02	3.73E-02	2.98E-03	2.98E-03	1.68E-03	1.68E-03
69	587614.8	4154159	1.90E-02	1.90E-02	3.86E-02	3.86E-02	3.08E-03	3.08E-03	1.74E-03	1.74E-03

70	587606.6	4154164	1.96E-02	1.96E-02	3.99E-02	3.99E-02	3.18E-03	3.18E-03	1.79E-03	1.79E-03
71	587598.3	4154169	2.01E-02	2.01E-02	4.09E-02	4.09E-02	3.26E-03	3.26E-03	1.84E-03	1.84E-03
72	587565.5	4154191	2.12E-02	2.12E-02	4.31E-02	4.31E-02	3.43E-03	3.43E-03	1.93E-03	1.93E-03
73	587625.8	4154140	1.62E-02	1.62E-02	3.29E-02	3.29E-02	2.62E-03	2.62E-03	1.48E-03	1.48E-03
74	587617.6	4154145	1.68E-02	1.68E-02	3.42E-02	3.42E-02	2.72E-03	2.72E-03	1.53E-03	1.53E-03
75	587609.3	4154150	1.74E-02	1.74E-02	3.53E-02	3.53E-02	2.82E-03	2.82E-03	1.59E-03	1.59E-03
76	587601.1	4154156	1.79E-02	1.79E-02	3.64E-02	3.64E-02	2.90E-03	2.90E-03	1.64E-03	1.64E-03
77	587592.9	4154161	1.84E-02	1.84E-02	3.74E-02	3.74E-02	2.98E-03	2.98E-03	1.68E-03	1.68E-03
78	587584.7	4154166	1.88E-02	1.88E-02	3.82E-02	3.82E-02	3.04E-03	3.04E-03	1.72E-03	1.72E-03
79	587612.1	4154137	1.55E-02	1.55E-02	3.14E-02	3.14E-02	2.50E-03	2.50E-03	1.41E-03	1.41E-03
80	587603.9	4154142	1.60E-02	1.60E-02	3.25E-02	3.25E-02	2.59E-03	2.59E-03	1.46E-03	1.46E-03
81	587595.7	4154147	1.65E-02	1.65E-02	3.35E-02	3.35E-02	2.67E-03	2.67E-03	1.50E-03	1.50E-03
82	587587.5	4154153	1.69E-02	1.69E-02	3.44E-02	3.44E-02	2.74E-03	2.74E-03	1.54E-03	1.54E-03
83	587579.3	4154158	1.73E-02	1.73E-02	3.51E-02	3.51E-02	2.80E-03	2.80E-03	1.58E-03	1.58E-03
84	587571.1	4154163	1.76E-02	1.76E-02	3.57E-02	3.57E-02	2.85E-03	2.85E-03	1.61E-03	1.61E-03
85	587606.7	4154128	1.43E-02	1.43E-02	2.90E-02	2.90E-02	2.31E-03	2.31E-03	1.30E-03	1.30E-03
86	587598.5	4154134	1.47E-02	1.47E-02	3.00E-02	3.00E-02	2.39E-03	2.39E-03	1.35E-03	1.35E-03
87	587590.3	4154139	1.52E-02	1.52E-02	3.09E-02	3.09E-02	2.46E-03	2.46E-03	1.39E-03	1.39E-03
88	587582	4154144	1.56E-02	1.56E-02	3.17E-02	3.17E-02	2.52E-03	2.52E-03	1.42E-03	1.42E-03
89	587573.8	4154150	1.59E-02	1.59E-02	3.24E-02	3.24E-02	2.58E-03	2.58E-03	1.45E-03	1.45E-03
90	587565.6	4154155	1.62E-02	1.62E-02	3.30E-02	3.30E-02	2.63E-03	2.63E-03	1.48E-03	1.48E-03
91	587557.4	4154160	1.65E-02	1.65E-02	3.35E-02	3.35E-02	2.67E-03	2.67E-03	1.50E-03	1.50E-03
92	587593	4154125	1.37E-02	1.37E-02	2.77E-02	2.77E-02	2.21E-03	2.21E-03	1.25E-03	1.25E-03
93	587584.8	4154131	1.41E-02	1.41E-02	2.86E-02	2.86E-02	2.28E-03	2.28E-03	1.28E-03	1.28E-03
94	587576.6	4154136	1.44E-02	1.44E-02	2.93E-02	2.93E-02	2.34E-03	2.34E-03	1.32E-03	1.32E-03
95	587568.4	4154141	1.48E-02	1.48E-02	3.00E-02	3.00E-02	2.39E-03	2.39E-03	1.35E-03	1.35E-03
96	587560.2	4154147	1.51E-02	1.51E-02	3.06E-02	3.06E-02	2.44E-03	2.44E-03	1.37E-03	1.37E-03
97	587552	4154152	1.53E-02	1.53E-02	3.10E-02	3.10E-02	2.47E-03	2.47E-03	1.39E-03	1.39E-03
98	587543.8	4154157	1.54E-02	1.54E-02	3.14E-02	3.14E-02	2.50E-03	2.50E-03	1.41E-03	1.41E-03
99	587604	4154106	1.19E-02	1.19E-02	2.42E-02	2.42E-02	1.93E-03	1.93E-03	1.09E-03	1.09E-03
100	587587.6	4154117	1.27E-02	1.27E-02	2.58E-02	2.58E-02	2.05E-03	2.05E-03	1.16E-03	1.16E-03
101	587579.4	4154122	1.31E-02	1.31E-02	2.65E-02	2.65E-02	2.12E-03	2.12E-03	1.19E-03	1.19E-03
102	587571.2	4154127	1.34E-02	1.34E-02	2.72E-02	2.72E-02	2.17E-03	2.17E-03	1.22E-03	1.22E-03
103	587563	4154133	1.37E-02	1.37E-02	2.79E-02	2.79E-02	2.22E-03	2.22E-03	1.25E-03	1.25E-03
104	587554.8	4154138	1.40E-02	1.40E-02	2.84E-02	2.84E-02	2.27E-03	2.27E-03	1.28E-03	1.28E-03
105	587546.5	4154143	1.42E-02	1.42E-02	2.89E-02	2.89E-02	2.30E-03	2.30E-03	1.30E-03	1.30E-03
106	587538.3	4154149	1.44E-02	1.44E-02	2.92E-02	2.92E-02	2.33E-03	2.33E-03	1.31E-03	1.31E-03
107	587582.2	4154108	1.18E-02	1.18E-02	2.40E-02	2.40E-02	1.92E-03	1.92E-03	1.08E-03	1.08E-03
108	587574	4154114	1.22E-02	1.22E-02	2.47E-02	2.47E-02	1.97E-03	1.97E-03	1.11E-03	1.11E-03
109	587565.8	4154119	1.25E-02	1.25E-02	2.54E-02	2.54E-02	2.02E-03	2.02E-03	1.14E-03	1.14E-03
110	587557.5	4154124	1.28E-02	1.28E-02	2.60E-02	2.60E-02	2.07E-03	2.07E-03	1.17E-03	1.17E-03
111	587549.3	4154130	1.30E-02	1.30E-02	2.65E-02	2.65E-02	2.11E-03	2.11E-03	1.19E-03	1.19E-03
112	587541.1	4154135	1.33E-02	1.33E-02	2.69E-02	2.69E-02	2.15E-03	2.15E-03	1.21E-03	1.21E-03
113	587532.9	4154140	1.34E-02	1.34E-02	2.73E-02	2.73E-02	2.17E-03	2.17E-03	1.22E-03	1.22E-03
114	587576.7	4154100	1.11E-02	1.11E-02	2.25E-02	2.25E-02	1.79E-03	1.79E-03	1.01E-03	1.01E-03
115	587568.5	4154105	1.14E-02	1.14E-02	2.31E-02	2.31E-02	1.84E-03	1.84E-03	1.04E-03	1.04E-03
116	587560.3	4154111	1.17E-02	1.17E-02	2.37E-02	2.37E-02	1.89E-03	1.89E-03	1.07E-03	1.07E-03
117	587552.1	4154116	1.20E-02	1.20E-02	2.43E-02	2.43E-02	1.94E-03	1.94E-03	1.09E-03	1.09E-03
118	587543.9	4154121	1.22E-02	1.22E-02	2.48E-02	2.48E-02	1.97E-03	1.97E-03	1.11E-03	1.11E-03
119	587535.7	4154127	1.24E-02	1.24E-02	2.52E-02	2.52E-02	2.01E-03	2.01E-03	1.13E-03	1.13E-03
120	587571.3	4154092	1.04E-02	1.04E-02	2.11E-02	2.11E-02	1.68E-03	1.68E-03	9.47E-04	9.47E-04
121	587563.1	4154097	1.07E-02	1.07E-02	2.17E-02	2.17E-02	1.73E-03	1.73E-03	9.73E-04	9.73E-04
122	587554.9	4154102	1.09E-02	1.09E-02	2.22E-02	2.22E-02	1.77E-03	1.77E-03	9.99E-04	9.99E-04
123	587546.7	4154108	1.12E-02	1.12E-02	2.28E-02	2.28E-02	1.81E-03	1.81E-03	1.02E-03	1.02E-03
124	587538.5	4154113	1.14E-02	1.14E-02	2.32E-02	2.32E-02	1.85E-03	1.85E-03	1.04E-03	1.04E-03
125	587530.3	4154118	1.16E-02	1.16E-02	2.36E-02	2.36E-02	1.88E-03	1.88E-03	1.06E-03	1.06E-03
126	587565.9	4154083	9.75E-03	9.75E-03	1.98E-02	1.98E-02	1.58E-03	1.58E-03	8.90E-04	8.90E-04
127	587557.7	4154089	1.00E-02	1.00E-02	2.04E-02	2.04E-02	1.62E-03	1.62E-03	9.15E-04	9.15E-04
128	587549.5	4154094	1.03E-02	1.03E-02	2.09E-02	2.09E-02	1.66E-03	1.66E-03	9.39E-04	9.39E-04
129	587541.2	4154099	1.05E-02	1.05E-02	2.14E-02	2.14E-02	1.70E-03	1.70E-03	9.61E-04	9.61E-04
130	587533	4154105	1.07E-02	1.07E-02	2.18E-02	2.18E-02	1.74E-03	1.74E-03	9.80E-04	9.80E-04
131	587524.8	4154110	1.09E-02	1.09E-02	2.22E-02	2.22E-02	1.77E-03	1.77E-03	9.97E-04	9.97E-04
132	587560.4	4154075	9.19E-03	9.19E-03	1.87E-02	1.87E-02	1.49E-03	1.49E-03	8.39E-04	8.39E-04
133	587552.2	4154080	9.44E-03	9.44E-03	1.92E-02	1.92E-02	1.53E-03	1.53E-03	8.62E-04	8.62E-04
134	587544	4154086	9.68E-03	9.68E-03	1.97E-02	1.97E-02	1.57E-03	1.57E-03	8.84E-04	8.84E-04
135	587535.8	4154091	9.90E-03	9.90E-03	2.01E-02	2.01E-02	1.60E-03	1.60E-03	9.04E-04	9.04E-04
136	587527.6	4154096	1.01E-02	1.01E-02	2.05E-02	2.05E-02	1.64E-03	1.64E-03	9.22E-04	9.22E-04
137	587519.4	4154101	1.03E-02	1.03E-02	2.09E-02	2.09E-02	1.66E-03	1.66E-03	9.39E-04	9.39E-04
138	587555	4154066	8.67E-03	8.67E-03	1.76E-02	1.76E-02	1.40E-03	1.40E-03	7.92E-04	7.92E-04
139	587546.8	4154072	8.91E-03	8.91E-03	1.81E-02	1.81E-02	1.44E-03	1.44E-03	8.13E-04	8.13E-04
140	587538.6	4154077	9.13E-03	9.13E-03	1.86E-02	1.86E-02	1.48E-03	1.48E-03	8.34E-04	8.34E-04
141	587530.4	4154082	9.34E-03	9.34E-03	1.90E-02	1.90E-02	1.51E-03	1.51E-03	8.53E-04	8.53E-04

142	587522.2	4154088	9.53E-03	9.53E-03	1.94E-02	1.94E-02	1.54E-03	1.54E-03	8.70E-04	8.70E-04
143	587514	4154093	9.69E-03	9.69E-03	1.97E-02	1.97E-02	1.57E-03	1.57E-03	8.85E-04	8.85E-04
144	587549.6	4154058	8.21E-03	8.21E-03	1.67E-02	1.67E-02	1.33E-03	1.33E-03	7.49E-04	7.49E-04
145	587541.4	4154063	8.43E-03	8.43E-03	1.71E-02	1.71E-02	1.36E-03	1.36E-03	7.69E-04	7.69E-04
146	587533.2	4154069	8.63E-03	8.63E-03	1.75E-02	1.75E-02	1.40E-03	1.40E-03	7.88E-04	7.88E-04
147	587524.9	4154074	8.83E-03	8.83E-03	1.79E-02	1.79E-02	1.43E-03	1.43E-03	8.06E-04	8.06E-04
148	587516.7	4154079	9.01E-03	9.01E-03	1.83E-02	1.83E-02	1.46E-03	1.46E-03	8.22E-04	8.22E-04
149	587508.5	4154085	9.16E-03	9.16E-03	1.86E-02	1.86E-02	1.48E-03	1.48E-03	8.36E-04	8.36E-04
150	587544.2	4154050	7.78E-03	7.78E-03	1.58E-02	1.58E-02	1.26E-03	1.26E-03	7.10E-04	7.10E-04
151	587535.9	4154055	7.98E-03	7.98E-03	1.62E-02	1.62E-02	1.29E-03	1.29E-03	7.29E-04	7.29E-04
152	587527.7	4154060	8.18E-03	8.18E-03	1.66E-02	1.66E-02	1.32E-03	1.32E-03	7.46E-04	7.46E-04
153	587519.5	4154066	8.36E-03	8.36E-03	1.70E-02	1.70E-02	1.35E-03	1.35E-03	7.63E-04	7.63E-04
154	587511.3	4154071	8.52E-03	8.52E-03	1.73E-02	1.73E-02	1.38E-03	1.38E-03	7.78E-04	7.78E-04
155	587503.1	4154076	8.67E-03	8.67E-03	1.76E-02	1.76E-02	1.40E-03	1.40E-03	7.92E-04	7.92E-04
156	587538.7	4154041	7.39E-03	7.39E-03	1.50E-02	1.50E-02	1.20E-03	1.20E-03	6.74E-04	6.74E-04
157	587530.5	4154047	7.57E-03	7.57E-03	1.54E-02	1.54E-02	1.23E-03	1.23E-03	6.92E-04	6.92E-04
158	587522.3	4154052	7.76E-03	7.76E-03	1.58E-02	1.58E-02	1.26E-03	1.26E-03	7.08E-04	7.08E-04
159	587514.1	4154057	7.93E-03	7.93E-03	1.61E-02	1.61E-02	1.28E-03	1.28E-03	7.24E-04	7.24E-04
160	587505.9	4154063	8.08E-03	8.08E-03	1.64E-02	1.64E-02	1.31E-03	1.31E-03	7.38E-04	7.38E-04
161	587497.7	4154068	8.22E-03	8.22E-03	1.67E-02	1.67E-02	1.33E-03	1.33E-03	7.50E-04	7.50E-04
162	587533.3	4154033	7.02E-03	7.02E-03	1.43E-02	1.43E-02	1.14E-03	1.14E-03	6.41E-04	6.41E-04
163	587525.1	4154038	7.20E-03	7.20E-03	1.46E-02	1.46E-02	1.17E-03	1.17E-03	6.57E-04	6.57E-04
164	587516.9	4154044	7.37E-03	7.37E-03	1.50E-02	1.50E-02	1.19E-03	1.19E-03	6.73E-04	6.73E-04
165	587508.7	4154049	7.53E-03	7.53E-03	1.53E-02	1.53E-02	1.22E-03	1.22E-03	6.87E-04	6.87E-04
166	587500.4	4154054	7.67E-03	7.67E-03	1.56E-02	1.56E-02	1.24E-03	1.24E-03	7.00E-04	7.00E-04
167	587492.2	4154059	7.80E-03	7.80E-03	1.58E-02	1.58E-02	1.26E-03	1.26E-03	7.12E-04	7.12E-04
168	587527.9	4154025	6.69E-03	6.69E-03	1.36E-02	1.36E-02	1.08E-03	1.08E-03	6.11E-04	6.11E-04
169	587519.6	4154030	6.85E-03	6.85E-03	1.39E-02	1.39E-02	1.11E-03	1.11E-03	6.26E-04	6.26E-04
170	587511.4	4154035	7.01E-03	7.01E-03	1.42E-02	1.42E-02	1.14E-03	1.14E-03	6.40E-04	6.40E-04
171	587503.2	4154040	7.16E-03	7.16E-03	1.45E-02	1.45E-02	1.16E-03	1.16E-03	6.53E-04	6.53E-04
172	587495	4154046	7.29E-03	7.29E-03	1.48E-02	1.48E-02	1.18E-03	1.18E-03	6.66E-04	6.66E-04
173	587486.8	4154051	7.41E-03	7.41E-03	1.51E-02	1.51E-02	1.20E-03	1.20E-03	6.77E-04	6.77E-04
174	587522.4	4154016	6.38E-03	6.38E-03	1.30E-02	1.30E-02	1.03E-03	1.03E-03	5.82E-04	5.82E-04
175	587514.2	4154021	6.53E-03	6.53E-03	1.33E-02	1.33E-02	1.06E-03	1.06E-03	5.96E-04	5.96E-04
176	587506	4154027	6.68E-03	6.68E-03	1.36E-02	1.36E-02	1.08E-03	1.08E-03	6.10E-04	6.10E-04
177	587497.8	4154032	6.81E-03	6.81E-03	1.38E-02	1.38E-02	1.10E-03	1.10E-03	6.22E-04	6.22E-04
178	587489.6	4154037	6.94E-03	6.94E-03	1.41E-02	1.41E-02	1.12E-03	1.12E-03	6.34E-04	6.34E-04
179	587481.4	4154043	7.05E-03	7.05E-03	1.43E-02	1.43E-02	1.14E-03	1.14E-03	6.44E-04	6.44E-04
180	587602.9	4154297	7.57E-02	7.57E-02	1.54E-01	1.54E-01	1.23E-02	1.23E-02	6.91E-03	6.91E-03
181	587588.5	4154306	6.50E-02	6.50E-02	1.32E-01	1.32E-01	1.05E-02	1.05E-02	5.93E-03	5.93E-03
182	587597.5	4154289	6.30E-02	6.30E-02	1.28E-01	1.28E-01	1.02E-02	1.02E-02	5.76E-03	5.76E-03
183	587583.2	4154298	5.53E-02	5.53E-02	1.12E-01	1.12E-01	8.95E-03	8.95E-03	5.05E-03	5.05E-03
184	587592.2	4154280	5.38E-02	5.38E-02	1.09E-01	1.09E-01	8.71E-03	8.71E-03	4.91E-03	4.91E-03
185	587577.8	4154290	4.80E-02	4.80E-02	9.75E-02	9.75E-02	7.77E-03	7.77E-03	4.38E-03	4.38E-03
186	587586.8	4154272	4.68E-02	4.68E-02	9.50E-02	9.50E-02	7.57E-03	7.57E-03	4.27E-03	4.27E-03
187	587572.5	4154281	4.22E-02	4.22E-02	8.59E-02	8.59E-02	6.84E-03	6.84E-03	3.86E-03	3.86E-03
188	587581.5	4154264	4.12E-02	4.12E-02	8.37E-02	8.37E-02	6.67E-03	6.67E-03	3.76E-03	3.76E-03
189	587567.1	4154273	3.76E-02	3.76E-02	7.64E-02	7.64E-02	6.08E-03	6.08E-03	3.43E-03	3.43E-03
190	587576.1	4154255	3.66E-02	3.66E-02	7.44E-02	7.44E-02	5.93E-03	5.93E-03	3.34E-03	3.34E-03
191	587561.7	4154264	3.37E-02	3.37E-02	6.85E-02	6.85E-02	5.46E-03	5.46E-03	3.08E-03	3.08E-03
192	587570.7	4154247	3.29E-02	3.29E-02	6.68E-02	6.68E-02	5.32E-03	5.32E-03	3.00E-03	3.00E-03
193	587556.4	4154256	3.05E-02	3.05E-02	6.21E-02	6.21E-02	4.95E-03	4.95E-03	2.79E-03	2.79E-03
194	587565.4	4154238	2.97E-02	2.97E-02	6.03E-02	6.03E-02	4.81E-03	4.81E-03	2.71E-03	2.71E-03
195	587551	4154247	2.78E-02	2.78E-02	5.66E-02	5.66E-02	4.51E-03	4.51E-03	2.54E-03	2.54E-03
196	587560	4154230	2.70E-02	2.70E-02	5.48E-02	5.48E-02	4.37E-03	4.37E-03	2.46E-03	2.46E-03
197	587545.7	4154239	2.55E-02	2.55E-02	5.19E-02	5.19E-02	4.13E-03	4.13E-03	2.33E-03	2.33E-03
198	587554.7	4154221	2.46E-02	2.46E-02	5.01E-02	5.01E-02	3.99E-03	3.99E-03	2.25E-03	2.25E-03
199	587540.3	4154231	2.35E-02	2.35E-02	4.77E-02	4.77E-02	3.80E-03	3.80E-03	2.14E-03	2.14E-03
200	587549.3	4154213	2.26E-02	2.26E-02	4.59E-02	4.59E-02	3.66E-03	3.66E-03	2.06E-03	2.06E-03
201	587534.9	4154222	2.17E-02	2.17E-02	4.40E-02	4.40E-02	3.51E-03	3.51E-03	1.98E-03	1.98E-03
202	587543.9	4154205	2.08E-02	2.08E-02	4.23E-02	4.23E-02	3.37E-03	3.37E-03	1.90E-03	1.90E-03
203	587529.6	4154214	2.01E-02	2.01E-02	4.08E-02	4.08E-02	3.25E-03	3.25E-03	1.83E-03	1.83E-03
204	587538.6	4154196	1.92E-02	1.92E-02	3.91E-02	3.91E-02	3.11E-03	3.11E-03	1.76E-03	1.76E-03
205	587524.2	4154205	1.86E-02	1.86E-02	3.79E-02	3.79E-02	3.02E-03	3.02E-03	1.70E-03	1.70E-03
206	587533.2	4154188	1.78E-02	1.78E-02	3.62E-02	3.62E-02	2.89E-03	2.89E-03	1.63E-03	1.63E-03
207	587518.9	4154197	1.74E-02	1.74E-02	3.53E-02	3.53E-02	2.81E-03	2.81E-03	1.58E-03	1.58E-03
208	587513.5	4154188	1.62E-02	1.62E-02	3.29E-02	3.29E-02	2.62E-03	2.62E-03	1.48E-03	1.48E-03
209	587511.8	4154154	1.35E-02	1.35E-02	2.75E-02	2.75E-02	2.19E-03	2.19E-03	1.23E-03	1.23E-03
210	587506.4	4154145	1.27E-02	1.27E-02	2.58E-02	2.58E-02	2.05E-03	2.05E-03	1.16E-03	1.16E-03
211	587492.1	4154155	1.25E-02	1.25E-02	2.55E-02	2.55E-02	2.03E-03	2.03E-03	1.14E-03	1.14E-03
212	587501.1	4154137	1.19E-02	1.19E-02	2.42E-02	2.42E-02	1.93E-03	1.93E-03	1.09E-03	1.09E-03
213	587486.7	4154146	1.18E-02	1.18E-02	2.40E-02	2.40E-02	1.91E-03	1.91E-03	1.08E-03	1.08E-03

214	587495.7	4154129	1.12E-02	1.12E-02	2.28E-02	2.28E-02	1.82E-03	1.82E-03	1.03E-03	1.03E-03
215	587481.3	4154138	1.12E-02	1.12E-02	2.27E-02	2.27E-02	1.81E-03	1.81E-03	1.02E-03	1.02E-03
216	587490.3	4154120	1.06E-02	1.06E-02	2.15E-02	2.15E-02	1.72E-03	1.72E-03	9.68E-04	9.68E-04
217	587476	4154129	1.06E-02	1.06E-02	2.14E-02	2.14E-02	1.71E-03	1.71E-03	9.63E-04	9.63E-04
218	587485	4154112	1.00E-02	1.00E-02	2.04E-02	2.04E-02	1.62E-03	1.62E-03	9.15E-04	9.15E-04
219	587470.6	4154121	9.99E-03	9.99E-03	2.03E-02	2.03E-02	1.62E-03	1.62E-03	9.12E-04	9.12E-04
220	587479.6	4154103	9.48E-03	9.48E-03	1.93E-02	1.93E-02	1.54E-03	1.54E-03	8.66E-04	8.66E-04
221	587465.3	4154112	9.47E-03	9.47E-03	1.92E-02	1.92E-02	1.53E-03	1.53E-03	8.64E-04	8.64E-04
222	587474.3	4154095	8.98E-03	8.98E-03	1.83E-02	1.83E-02	1.46E-03	1.46E-03	8.20E-04	8.20E-04
223	587459.9	4154104	8.99E-03	8.99E-03	1.83E-02	1.83E-02	1.46E-03	1.46E-03	8.20E-04	8.20E-04
224	587468.9	4154086	8.53E-03	8.53E-03	1.73E-02	1.73E-02	1.38E-03	1.38E-03	7.79E-04	7.79E-04
225	587454.5	4154095	8.55E-03	8.55E-03	1.74E-02	1.74E-02	1.38E-03	1.38E-03	7.80E-04	7.80E-04
226	587463.6	4154078	8.10E-03	8.10E-03	1.65E-02	1.65E-02	1.31E-03	1.31E-03	7.39E-04	7.39E-04
227	587449.2	4154087	8.14E-03	8.14E-03	1.65E-02	1.65E-02	1.32E-03	1.32E-03	7.43E-04	7.43E-04
228	587458.2	4154069	7.70E-03	7.70E-03	1.56E-02	1.56E-02	1.25E-03	1.25E-03	7.03E-04	7.03E-04
229	587443.8	4154079	7.75E-03	7.75E-03	1.58E-02	1.58E-02	1.26E-03	1.26E-03	7.08E-04	7.08E-04
230	587452.8	4154061	7.33E-03	7.33E-03	1.49E-02	1.49E-02	1.19E-03	1.19E-03	6.69E-04	6.69E-04
231	587438.5	4154070	7.39E-03	7.39E-03	1.50E-02	1.50E-02	1.20E-03	1.20E-03	6.75E-04	6.75E-04
232	587562.7	4154322	4.19E-02	4.19E-02	8.52E-02	8.52E-02	6.79E-03	6.79E-03	3.83E-03	3.83E-03
233	587550.4	4154336	3.27E-02	3.27E-02	6.64E-02	6.64E-02	5.29E-03	5.29E-03	2.98E-03	2.98E-03
234	587554	4154318	3.60E-02	3.60E-02	7.33E-02	7.33E-02	5.84E-03	5.84E-03	3.29E-03	3.29E-03
235	587559.5	4154310	3.94E-02	3.94E-02	8.01E-02	8.01E-02	6.39E-03	6.39E-03	3.60E-03	3.60E-03
236	587542.4	4154343	2.80E-02	2.80E-02	5.69E-02	5.69E-02	4.54E-03	4.54E-03	2.56E-03	2.56E-03
237	587540.5	4154334	2.81E-02	2.81E-02	5.72E-02	5.72E-02	4.56E-03	4.56E-03	2.57E-03	2.57E-03
238	587544	4154317	3.08E-02	3.08E-02	6.26E-02	6.26E-02	4.99E-03	4.99E-03	2.81E-03	2.81E-03
239	587549.3	4154309	3.35E-02	3.35E-02	6.81E-02	6.81E-02	5.43E-03	5.43E-03	3.06E-03	3.06E-03
240	587554.6	4154301	3.60E-02	3.60E-02	7.32E-02	7.32E-02	5.83E-03	5.83E-03	3.29E-03	3.29E-03
241	587534.3	4154349	2.42E-02	2.42E-02	4.93E-02	4.93E-02	3.92E-03	3.92E-03	2.21E-03	2.21E-03
242	587530.7	4154331	2.46E-02	2.46E-02	4.99E-02	4.99E-02	3.98E-03	3.98E-03	2.24E-03	2.24E-03
243	587534	4154315	2.67E-02	2.67E-02	5.43E-02	5.43E-02	4.33E-03	4.33E-03	2.44E-03	2.44E-03
244	587539.2	4154307	2.89E-02	2.89E-02	5.88E-02	5.88E-02	4.69E-03	4.69E-03	2.64E-03	2.64E-03
245	587544.4	4154300	3.10E-02	3.10E-02	6.31E-02	6.31E-02	5.03E-03	5.03E-03	2.83E-03	2.83E-03
246	587549.6	4154292	3.29E-02	3.29E-02	6.68E-02	6.68E-02	5.32E-03	5.32E-03	3.00E-03	3.00E-03
247	587526.1	4154355	2.12E-02	2.12E-02	4.30E-02	4.30E-02	3.43E-03	3.43E-03	1.93E-03	1.93E-03
248	587522.6	4154338	2.16E-02	2.16E-02	4.39E-02	4.39E-02	3.50E-03	3.50E-03	1.97E-03	1.97E-03
249	587524.1	4154313	2.35E-02	2.35E-02	4.77E-02	4.77E-02	3.80E-03	3.80E-03	2.14E-03	2.14E-03
250	587529.2	4154306	2.53E-02	2.53E-02	5.15E-02	5.15E-02	4.10E-03	4.10E-03	2.31E-03	2.31E-03
251	587539.3	4154291	2.87E-02	2.87E-02	5.84E-02	5.84E-02	4.65E-03	4.65E-03	2.62E-03	2.62E-03
252	587544.4	4154284	3.01E-02	3.01E-02	6.11E-02	6.11E-02	4.87E-03	4.87E-03	2.75E-03	2.75E-03
253	587518	4154361	1.86E-02	1.86E-02	3.78E-02	3.78E-02	3.02E-03	3.02E-03	1.70E-03	1.70E-03
254	587514.5	4154344	1.91E-02	1.91E-02	3.88E-02	3.88E-02	3.09E-03	3.09E-03	1.74E-03	1.74E-03
255	587511	4154327	1.93E-02	1.93E-02	3.93E-02	3.93E-02	3.13E-03	3.13E-03	1.76E-03	1.76E-03
256	587514.3	4154311	2.09E-02	2.09E-02	4.24E-02	4.24E-02	3.38E-03	3.38E-03	1.91E-03	1.91E-03
257	587524.2	4154297	2.39E-02	2.39E-02	4.86E-02	4.86E-02	3.88E-03	3.88E-03	2.18E-03	2.18E-03
258	587534.2	4154282	2.66E-02	2.66E-02	5.41E-02	5.41E-02	4.31E-03	4.31E-03	2.43E-03	2.43E-03
259	587509.1	4154364	1.66E-02	1.66E-02	3.38E-02	3.38E-02	2.69E-03	2.69E-03	1.52E-03	1.52E-03
260	587507.2	4154355	1.69E-02	1.69E-02	3.43E-02	3.43E-02	2.74E-03	2.74E-03	1.54E-03	1.54E-03
261	587505.3	4154345	1.71E-02	1.71E-02	3.48E-02	3.48E-02	2.77E-03	2.77E-03	1.56E-03	1.56E-03
262	587503.3	4154335	1.73E-02	1.73E-02	3.51E-02	3.51E-02	2.80E-03	2.80E-03	1.58E-03	1.58E-03
263	587501.4	4154326	1.74E-02	1.74E-02	3.53E-02	3.53E-02	2.81E-03	2.81E-03	1.59E-03	1.59E-03
264	587516.1	4154292	2.18E-02	2.18E-02	4.43E-02	4.43E-02	3.53E-03	3.53E-03	1.99E-03	1.99E-03
265	587521.7	4154284	2.32E-02	2.32E-02	4.71E-02	4.71E-02	3.75E-03	3.75E-03	2.11E-03	2.11E-03
266	587527.2	4154276	2.44E-02	2.44E-02	4.96E-02	4.96E-02	3.95E-03	3.95E-03	2.23E-03	2.23E-03
267	587532.7	4154268	2.54E-02	2.54E-02	5.15E-02	5.15E-02	4.11E-03	4.11E-03	2.31E-03	2.31E-03
268	587501	4154370	1.48E-02	1.48E-02	3.01E-02	3.01E-02	2.40E-03	2.40E-03	1.35E-03	1.35E-03
269	587499.1	4154361	1.51E-02	1.51E-02	3.07E-02	3.07E-02	2.44E-03	2.44E-03	1.38E-03	1.38E-03
270	587497.2	4154352	1.53E-02	1.53E-02	3.11E-02	3.11E-02	2.48E-03	2.48E-03	1.40E-03	1.40E-03
271	587495.3	4154342	1.55E-02	1.55E-02	3.15E-02	3.15E-02	2.51E-03	2.51E-03	1.41E-03	1.41E-03
272	587493.5	4154333	1.56E-02	1.56E-02	3.18E-02	3.18E-02	2.53E-03	2.53E-03	1.43E-03	1.43E-03
273	587495.1	4154306	1.70E-02	1.70E-02	3.46E-02	3.46E-02	2.76E-03	2.76E-03	1.55E-03	1.55E-03
274	587511.4	4154283	2.07E-02	2.07E-02	4.21E-02	4.21E-02	3.36E-03	3.36E-03	1.89E-03	1.89E-03
275	587516.8	4154275	2.18E-02	2.18E-02	4.44E-02	4.44E-02	3.54E-03	3.54E-03	1.99E-03	1.99E-03
276	587522.2	4154267	2.28E-02	2.28E-02	4.63E-02	4.63E-02	3.69E-03	3.69E-03	2.08E-03	2.08E-03
277	587527.6	4154259	2.36E-02	2.36E-02	4.79E-02	4.79E-02	3.82E-03	3.82E-03	2.15E-03	2.15E-03
278	587492.9	4154377	1.33E-02	1.33E-02	2.71E-02	2.71E-02	2.16E-03	2.16E-03	1.22E-03	1.22E-03
279	587491	4154367	1.36E-02	1.36E-02	2.75E-02	2.75E-02	2.19E-03	2.19E-03	1.24E-03	1.24E-03
280	587489.2	4154358	1.38E-02	1.38E-02	2.79E-02	2.79E-02	2.23E-03	2.23E-03	1.26E-03	1.26E-03
281	587487.3	4154349	1.39E-02	1.39E-02	2.83E-02	2.83E-02	2.26E-03	2.26E-03	1.27E-03	1.27E-03
282	587485.4	4154340	1.41E-02	1.41E-02	2.86E-02	2.86E-02	2.28E-03	2.28E-03	1.29E-03	1.29E-03
283	587485.2	4154305	1.55E-02	1.55E-02	3.14E-02	3.14E-02	2.50E-03	2.50E-03	1.41E-03	1.41E-03
284	587490.5	4154297	1.65E-02	1.65E-02	3.36E-02	3.36E-02	2.68E-03	2.68E-03	1.51E-03	1.51E-03
285	587506.5	4154274	1.97E-02	1.97E-02	4.00E-02	4.00E-02	3.19E-03	3.19E-03	1.80E-03	1.80E-03

286	587511.8	4154266	2.06E-02	2.06E-02	4.18E-02	4.18E-02	3.33E-03	3.33E-03	1.88E-03	1.88E-03
287	587517.2	4154258	2.14E-02	2.14E-02	4.34E-02	4.34E-02	3.46E-03	3.46E-03	1.95E-03	1.95E-03
288	587522.5	4154251	2.20E-02	2.20E-02	4.47E-02	4.47E-02	3.56E-03	3.56E-03	2.01E-03	2.01E-03
289	587484.7	4154383	1.21E-02	1.21E-02	2.45E-02	2.45E-02	1.95E-03	1.95E-03	1.10E-03	1.10E-03
290	587482.9	4154374	1.23E-02	1.23E-02	2.49E-02	2.49E-02	1.98E-03	1.98E-03	1.12E-03	1.12E-03
291	587481	4154365	1.24E-02	1.24E-02	2.53E-02	2.53E-02	2.01E-03	2.01E-03	1.14E-03	1.14E-03
292	587479.2	4154356	1.26E-02	1.26E-02	2.56E-02	2.56E-02	2.04E-03	2.04E-03	1.15E-03	1.15E-03
293	587477.4	4154346	1.28E-02	1.28E-02	2.59E-02	2.59E-02	2.07E-03	2.07E-03	1.17E-03	1.17E-03
294	587475.6	4154337	1.29E-02	1.29E-02	2.62E-02	2.62E-02	2.09E-03	2.09E-03	1.18E-03	1.18E-03
295	587475.3	4154303	1.41E-02	1.41E-02	2.87E-02	2.87E-02	2.28E-03	2.28E-03	1.29E-03	1.29E-03
296	587480.6	4154295	1.50E-02	1.50E-02	3.06E-02	3.06E-02	2.44E-03	2.44E-03	1.37E-03	1.37E-03
297	587485.8	4154287	1.60E-02	1.60E-02	3.25E-02	3.25E-02	2.59E-03	2.59E-03	1.46E-03	1.46E-03
298	587501.5	4154265	1.87E-02	1.87E-02	3.79E-02	3.79E-02	3.02E-03	3.02E-03	1.70E-03	1.70E-03
299	587506.8	4154257	1.94E-02	1.94E-02	3.94E-02	3.94E-02	3.14E-03	3.14E-03	1.77E-03	1.77E-03
300	587512	4154249	2.00E-02	2.00E-02	4.07E-02	4.07E-02	3.24E-03	3.24E-03	1.83E-03	1.83E-03
301	587517.3	4154242	2.05E-02	2.05E-02	4.17E-02	4.17E-02	3.32E-03	3.32E-03	1.87E-03	1.87E-03
302	587476	4154386	1.10E-02	1.10E-02	2.24E-02	2.24E-02	1.78E-03	1.78E-03	1.01E-03	1.01E-03
303	587474.1	4154376	1.12E-02	1.12E-02	2.28E-02	2.28E-02	1.81E-03	1.81E-03	1.02E-03	1.02E-03
304	587472.1	4154367	1.14E-02	1.14E-02	2.31E-02	2.31E-02	1.84E-03	1.84E-03	1.04E-03	1.04E-03
305	587470.1	4154357	1.15E-02	1.15E-02	2.35E-02	2.35E-02	1.87E-03	1.87E-03	1.05E-03	1.05E-03
306	587468.2	4154347	1.17E-02	1.17E-02	2.38E-02	2.38E-02	1.89E-03	1.89E-03	1.07E-03	1.07E-03
307	587466.2	4154337	1.18E-02	1.18E-02	2.40E-02	2.40E-02	1.92E-03	1.92E-03	1.08E-03	1.08E-03
308	587465.9	4154300	1.30E-02	1.30E-02	2.64E-02	2.64E-02	2.11E-03	2.11E-03	1.19E-03	1.19E-03
309	587471.6	4154292	1.39E-02	1.39E-02	2.83E-02	2.83E-02	2.25E-03	2.25E-03	1.27E-03	1.27E-03
310	587477.2	4154284	1.48E-02	1.48E-02	3.01E-02	3.01E-02	2.40E-03	2.40E-03	1.35E-03	1.35E-03
311	587482.9	4154275	1.57E-02	1.57E-02	3.19E-02	3.19E-02	2.54E-03	2.54E-03	1.43E-03	1.43E-03
312	587499.8	4154251	1.81E-02	1.81E-02	3.67E-02	3.67E-02	2.93E-03	2.93E-03	1.65E-03	1.65E-03
313	587505.5	4154243	1.87E-02	1.87E-02	3.79E-02	3.79E-02	3.02E-03	3.02E-03	1.70E-03	1.70E-03
314	587511.1	4154235	1.91E-02	1.91E-02	3.88E-02	3.88E-02	3.09E-03	3.09E-03	1.74E-03	1.74E-03
315	587467.9	4154392	1.01E-02	1.01E-02	2.04E-02	2.04E-02	1.63E-03	1.63E-03	9.19E-04	9.19E-04
316	587465.9	4154383	1.02E-02	1.02E-02	2.08E-02	2.08E-02	1.66E-03	1.66E-03	9.34E-04	9.34E-04
317	587464	4154373	1.04E-02	1.04E-02	2.11E-02	2.11E-02	1.68E-03	1.68E-03	9.49E-04	9.49E-04
318	587462.1	4154364	1.05E-02	1.05E-02	2.14E-02	2.14E-02	1.71E-03	1.71E-03	9.61E-04	9.61E-04
319	587460.2	4154354	1.07E-02	1.07E-02	2.17E-02	2.17E-02	1.73E-03	1.73E-03	9.74E-04	9.74E-04
320	587458.2	4154345	1.08E-02	1.08E-02	2.20E-02	2.20E-02	1.75E-03	1.75E-03	9.86E-04	9.86E-04
321	587456.3	4154335	1.09E-02	1.09E-02	2.22E-02	2.22E-02	1.77E-03	1.77E-03	9.97E-04	9.97E-04
322	587454.4	4154325	1.10E-02	1.10E-02	2.24E-02	2.24E-02	1.79E-03	1.79E-03	1.01E-03	1.01E-03
323	587452.4	4154316	1.11E-02	1.11E-02	2.26E-02	2.26E-02	1.80E-03	1.80E-03	1.02E-03	1.02E-03
324	587456	4154298	1.20E-02	1.20E-02	2.43E-02	2.43E-02	1.94E-03	1.94E-03	1.09E-03	1.09E-03
325	587461.6	4154290	1.28E-02	1.28E-02	2.59E-02	2.59E-02	2.06E-03	2.06E-03	1.16E-03	1.16E-03
326	587467.1	4154282	1.36E-02	1.36E-02	2.75E-02	2.75E-02	2.19E-03	2.19E-03	1.24E-03	1.24E-03
327	587472.7	4154274	0.01435	1.44E-02	2.92E-02	2.92E-02	2.32E-03	2.32E-03	1.31E-03	1.31E-03
328	587478.2	4154266	0.01512	1.51E-02	3.07E-02	3.07E-02	2.45E-03	2.45E-03	1.38E-03	1.38E-03
329	587494.9	4154242	0.0171	1.71E-02	3.48E-02	3.48E-02	2.77E-03	2.77E-03	1.56E-03	1.56E-03
330	587500.4	4154234	0.01757	1.76E-02	3.57E-02	3.57E-02	2.85E-03	2.85E-03	1.60E-03	1.60E-03
331	587506	4154226	0.01791	1.79E-02	3.64E-02	3.64E-02	2.90E-03	2.90E-03	1.64E-03	1.64E-03
332	587459.7	4154398	0.009236	9.24E-03	1.88E-02	1.88E-02	1.50E-03	1.50E-03	8.43E-04	8.43E-04
333	587457.8	4154389	0.009387	9.39E-03	1.91E-02	1.91E-02	1.52E-03	1.52E-03	8.57E-04	8.57E-04
334	587455.9	4154380	0.009527	9.53E-03	1.94E-02	1.94E-02	1.54E-03	1.54E-03	8.70E-04	8.70E-04
335	587454	4154370	0.009658	9.66E-03	1.96E-02	1.96E-02	1.56E-03	1.56E-03	8.82E-04	8.82E-04
336	587452.1	4154361	0.009784	9.78E-03	1.99E-02	1.99E-02	1.58E-03	1.58E-03	8.93E-04	8.93E-04
337	587450.2	4154351	0.009902	9.90E-03	2.01E-02	2.01E-02	1.60E-03	1.60E-03	9.04E-04	9.04E-04
338	587448.3	4154342	0.01002	1.00E-02	2.04E-02	2.04E-02	1.62E-03	1.62E-03	9.15E-04	9.15E-04
339	587446.4	4154333	0.01013	1.01E-02	2.06E-02	2.06E-02	1.64E-03	1.64E-03	9.25E-04	9.25E-04
340	587444.5	4154323	0.01023	1.02E-02	2.08E-02	2.08E-02	1.66E-03	1.66E-03	9.34E-04	9.34E-04
341	587442.6	4154314	0.01032	1.03E-02	2.10E-02	2.10E-02	1.67E-03	1.67E-03	9.42E-04	9.42E-04
342	587446.2	4154296	0.01106	1.11E-02	2.25E-02	2.25E-02	1.79E-03	1.79E-03	1.01E-03	1.01E-03
343	587451.6	4154288	0.01175	1.18E-02	2.39E-02	2.39E-02	1.90E-03	1.90E-03	1.07E-03	1.07E-03
344	587457.1	4154280	0.01246	1.25E-02	2.53E-02	2.53E-02	2.02E-03	2.02E-03	1.14E-03	1.14E-03
345	587462.5	4154273	0.01318	1.32E-02	2.68E-02	2.68E-02	2.13E-03	2.13E-03	1.20E-03	1.20E-03
346	587468	4154265	0.01388	1.39E-02	2.82E-02	2.82E-02	2.25E-03	2.25E-03	1.27E-03	1.27E-03
347	587473.5	4154257	0.01455	1.46E-02	2.96E-02	2.96E-02	2.36E-03	2.36E-03	1.33E-03	1.33E-03
348	587484.4	4154241	0.01571	1.57E-02	3.19E-02	3.19E-02	2.54E-03	2.54E-03	1.43E-03	1.43E-03
349	587489.8	4154233	0.01618	1.62E-02	3.29E-02	3.29E-02	2.62E-03	2.62E-03	1.48E-03	1.48E-03
350	587495.3	4154225	0.01654	1.65E-02	3.36E-02	3.36E-02	2.68E-03	2.68E-03	1.51E-03	1.51E-03
351	587500.8	4154217	0.0168	1.68E-02	3.41E-02	3.41E-02	2.72E-03	2.72E-03	1.53E-03	1.53E-03
352	587449.7	4154395	0.00865	8.65E-03	1.76E-02	1.76E-02	1.40E-03	1.40E-03	7.90E-04	7.90E-04
353	587447.8	4154386	0.008775	8.78E-03	1.78E-02	1.78E-02	1.42E-03	1.42E-03	8.01E-04	8.01E-04
354	587445.9	4154377	0.008893	8.89E-03	1.81E-02	1.81E-02	1.44E-03	1.44E-03	8.12E-04	8.12E-04
355	587444	4154367	0.009005	9.01E-03	1.83E-02	1.83E-02	1.46E-03	1.46E-03	8.22E-04	8.22E-04
356	587442.2	4154358	0.009114	9.11E-03	1.85E-02	1.85E-02	1.48E-03	1.48E-03	8.32E-04	8.32E-04
357	587440.3	4154349	0.009219	9.22E-03	1.87E-02	1.87E-02	1.49E-03	1.49E-03	8.42E-04	8.42E-04

358	587438.4	4154339	0.009321	9.32E-03	1.89E-02	1.89E-02	1.51E-03	1.51E-03	8.51E-04	8.51E-04
359	587436.5	4154330	0.009419	9.42E-03	1.91E-02	1.91E-02	1.53E-03	1.53E-03	8.60E-04	8.60E-04
360	587434.7	4154321	0.009511	9.51E-03	1.93E-02	1.93E-02	1.54E-03	1.54E-03	8.68E-04	8.68E-04
361	587432.8	4154312	0.009594	9.59E-03	1.95E-02	1.95E-02	1.55E-03	1.55E-03	8.76E-04	8.76E-04
362	587436.3	4154294	0.01026	1.03E-02	2.09E-02	2.09E-02	1.66E-03	1.66E-03	9.37E-04	9.37E-04
363	587441.7	4154287	0.01087	1.09E-02	2.21E-02	2.21E-02	1.76E-03	1.76E-03	9.92E-04	9.92E-04
364	587447.1	4154279	0.01151	1.15E-02	2.34E-02	2.34E-02	1.86E-03	1.86E-03	1.05E-03	1.05E-03
365	587452.5	4154271	0.01215	1.22E-02	2.47E-02	2.47E-02	1.97E-03	1.97E-03	1.11E-03	1.11E-03
366	587457.8	4154263	0.01278	1.28E-02	2.60E-02	2.60E-02	2.07E-03	2.07E-03	1.17E-03	1.17E-03
367	587463.2	4154255	0.0134	1.34E-02	2.72E-02	2.72E-02	2.17E-03	2.17E-03	1.22E-03	1.22E-03
368	587468.6	4154248	0.01397	1.40E-02	2.84E-02	2.84E-02	2.26E-03	2.26E-03	1.28E-03	1.28E-03
369	587479.4	4154232	0.01494	1.49E-02	3.04E-02	3.04E-02	2.42E-03	2.42E-03	1.36E-03	1.36E-03
370	587484.8	4154224	0.0153	1.53E-02	3.11E-02	3.11E-02	2.48E-03	2.48E-03	1.40E-03	1.40E-03
371	587490.2	4154216	0.01558	1.56E-02	3.17E-02	3.17E-02	2.52E-03	2.52E-03	1.42E-03	1.42E-03
372	587495.5	4154208	0.01577	1.58E-02	3.21E-02	3.21E-02	2.55E-03	2.55E-03	1.44E-03	1.44E-03
373	587441.5	4154401	0.008002	8.00E-03	1.63E-02	1.63E-02	1.30E-03	1.30E-03	7.31E-04	7.31E-04
374	587439.6	4154392	0.008114	8.11E-03	1.65E-02	1.65E-02	1.31E-03	1.31E-03	7.41E-04	7.41E-04
375	587437.8	4154383	0.00822	8.22E-03	1.67E-02	1.67E-02	1.33E-03	1.33E-03	7.51E-04	7.51E-04
376	587435.9	4154374	0.008321	8.32E-03	1.69E-02	1.69E-02	1.35E-03	1.35E-03	7.60E-04	7.60E-04
377	587434.1	4154365	0.008419	8.42E-03	1.71E-02	1.71E-02	1.36E-03	1.36E-03	7.69E-04	7.69E-04
378	587432.2	4154355	0.008515	8.52E-03	1.73E-02	1.73E-02	1.38E-03	1.38E-03	7.77E-04	7.77E-04
379	587430.4	4154346	0.008609	8.61E-03	1.75E-02	1.75E-02	1.39E-03	1.39E-03	7.86E-04	7.86E-04
380	587428.5	4154337	0.008701	8.70E-03	1.77E-02	1.77E-02	1.41E-03	1.41E-03	7.94E-04	7.94E-04
381	587426.7	4154328	0.00879	8.79E-03	1.79E-02	1.79E-02	1.42E-03	1.42E-03	8.03E-04	8.03E-04
382	587424.8	4154319	0.008874	8.87E-03	1.80E-02	1.80E-02	1.44E-03	1.44E-03	8.10E-04	8.10E-04
383	587423	4154309	0.008952	8.95E-03	1.82E-02	1.82E-02	1.45E-03	1.45E-03	8.17E-04	8.17E-04
384	587426.4	4154292	0.009547	9.55E-03	1.94E-02	1.94E-02	1.55E-03	1.55E-03	8.72E-04	8.72E-04
385	587431.8	4154285	0.0101	1.01E-02	2.05E-02	2.05E-02	1.64E-03	1.64E-03	9.22E-04	9.22E-04
386	587437.1	4154277	0.01066	1.07E-02	2.17E-02	2.17E-02	1.73E-03	1.73E-03	9.73E-04	9.73E-04
387	587442.4	4154269	0.01124	1.12E-02	2.28E-02	2.28E-02	1.82E-03	1.82E-03	1.03E-03	1.03E-03
388	587447.7	4154262	0.01182	1.18E-02	2.40E-02	2.40E-02	1.91E-03	1.91E-03	1.08E-03	1.08E-03
389	587453.1	4154254	0.01238	1.24E-02	2.52E-02	2.52E-02	2.01E-03	2.01E-03	1.13E-03	1.13E-03
390	587474.3	4154223	0.01421	1.42E-02	2.89E-02	2.89E-02	2.30E-03	2.30E-03	1.30E-03	1.30E-03
391	587479.7	4154215	0.01449	1.45E-02	2.95E-02	2.95E-02	2.35E-03	2.35E-03	1.32E-03	1.32E-03
392	587485	4154208	0.01469	1.47E-02	2.99E-02	2.99E-02	2.38E-03	2.38E-03	1.34E-03	1.34E-03
393	587490.3	4154200	0.01484	1.48E-02	3.02E-02	3.02E-02	2.40E-03	2.40E-03	1.35E-03	1.35E-03
394	587434.8	4154415	0.007341	7.34E-03	1.49E-02	1.49E-02	1.19E-03	1.19E-03	6.70E-04	6.70E-04
395	587432.8	4154405	0.007456	7.46E-03	1.52E-02	1.52E-02	1.21E-03	1.21E-03	6.81E-04	6.81E-04
396	587430.9	4154395	0.007562	7.56E-03	1.54E-02	1.54E-02	1.22E-03	1.22E-03	6.90E-04	6.90E-04
397	587428.9	4154386	0.007661	7.66E-03	1.56E-02	1.56E-02	1.24E-03	1.24E-03	6.99E-04	6.99E-04
398	587427	4154376	0.007757	7.76E-03	1.58E-02	1.58E-02	1.26E-03	1.26E-03	7.08E-04	7.08E-04
399	587425	4154366	0.00785	7.85E-03	1.60E-02	1.60E-02	1.27E-03	1.27E-03	7.17E-04	7.17E-04
400	587423.1	4154356	0.007942	7.94E-03	1.61E-02	1.61E-02	1.29E-03	1.29E-03	7.25E-04	7.25E-04
401	587421.1	4154347	0.008032	8.03E-03	1.63E-02	1.63E-02	1.30E-03	1.30E-03	7.33E-04	7.33E-04
402	587419.1	4154337	0.008122	8.12E-03	1.65E-02	1.65E-02	1.32E-03	1.32E-03	7.42E-04	7.42E-04
403	587417.2	4154327	0.00821	8.21E-03	1.67E-02	1.67E-02	1.33E-03	1.33E-03	7.50E-04	7.50E-04
404	587415.2	4154318	0.008293	8.29E-03	1.69E-02	1.69E-02	1.34E-03	1.34E-03	7.57E-04	7.57E-04
405	587413.3	4154308	0.008371	8.37E-03	1.70E-02	1.70E-02	1.36E-03	1.36E-03	7.64E-04	7.64E-04
406	587416.9	4154290	0.008945	8.95E-03	1.82E-02	1.82E-02	1.45E-03	1.45E-03	8.17E-04	8.17E-04
407	587422.6	4154282	0.009473	9.47E-03	1.93E-02	1.93E-02	1.53E-03	1.53E-03	8.65E-04	8.65E-04
408	587428.2	4154274	0.01002	1.00E-02	2.04E-02	2.04E-02	1.62E-03	1.62E-03	9.15E-04	9.15E-04
409	587467.5	4154217	0.01343	1.34E-02	2.73E-02	2.73E-02	2.18E-03	2.18E-03	1.23E-03	1.23E-03
410	587473.1	4154209	0.01369	1.37E-02	2.78E-02	2.78E-02	2.22E-03	2.22E-03	1.25E-03	1.25E-03
411	587478.7	4154200	0.01387	1.39E-02	2.82E-02	2.82E-02	2.25E-03	2.25E-03	1.27E-03	1.27E-03
412	587484.4	4154192	0.01398	1.40E-02	2.84E-02	2.84E-02	2.26E-03	2.26E-03	1.28E-03	1.28E-03
413	587424.7	4154411	0.006941	6.94E-03	1.41E-02	1.41E-02	1.12E-03	1.12E-03	6.34E-04	6.34E-04
414	587422.8	4154402	0.007037	7.04E-03	1.43E-02	1.43E-02	1.14E-03	1.14E-03	6.43E-04	6.43E-04
415	587420.8	4154392	0.007127	7.13E-03	1.45E-02	1.45E-02	1.15E-03	1.15E-03	6.51E-04	6.51E-04
416	587418.9	4154382	0.007213	7.21E-03	1.47E-02	1.47E-02	1.17E-03	1.17E-03	6.59E-04	6.59E-04
417	587417	4154373	0.007296	7.30E-03	1.48E-02	1.48E-02	1.18E-03	1.18E-03	6.66E-04	6.66E-04
418	587415	4154363	0.007379	7.38E-03	1.50E-02	1.50E-02	1.20E-03	1.20E-03	6.74E-04	6.74E-04
419	587413.1	4154354	0.007461	7.46E-03	1.52E-02	1.52E-02	1.21E-03	1.21E-03	6.81E-04	6.81E-04
420	587411.2	4154344	0.007543	7.54E-03	1.53E-02	1.53E-02	1.22E-03	1.22E-03	6.89E-04	6.89E-04
421	587409.2	4154334	0.007625	7.63E-03	1.55E-02	1.55E-02	1.23E-03	1.23E-03	6.96E-04	6.96E-04
422	587407.3	4154325	0.007704	7.70E-03	1.57E-02	1.57E-02	1.25E-03	1.25E-03	7.03E-04	7.03E-04
423	587405.4	4154315	0.007781	7.78E-03	1.58E-02	1.58E-02	1.26E-03	1.26E-03	7.10E-04	7.10E-04
424	587403.4	4154306	0.007854	7.85E-03	1.60E-02	1.60E-02	1.27E-03	1.27E-03	7.17E-04	7.17E-04
425	587407.1	4154288	0.008372	8.37E-03	1.70E-02	1.70E-02	1.36E-03	1.36E-03	7.64E-04	7.64E-04
426	587412.6	4154280	0.008845	8.85E-03	1.80E-02	1.80E-02	1.43E-03	1.43E-03	8.08E-04	8.08E-04
427	587418.2	4154272	0.009336	9.34E-03	1.90E-02	1.90E-02	1.51E-03	1.51E-03	8.52E-04	8.52E-04
428	587440.3	4154240	0.01131	1.13E-02	2.30E-02	2.30E-02	1.83E-03	1.83E-03	1.03E-03	1.03E-03
429	587445.9	4154232	0.01176	1.18E-02	2.39E-02	2.39E-02	1.90E-03	1.90E-03	1.07E-03	1.07E-03

430	587462.5	4154208	0.01281	1.28E-02	2.60E-02	2.60E-02	2.07E-03	2.07E-03	1.17E-03	1.17E-03
431	587468.1	4154200	0.01302	1.30E-02	2.65E-02	2.65E-02	2.11E-03	2.11E-03	1.19E-03	1.19E-03
432	587473.6	4154192	0.01315	1.32E-02	2.67E-02	2.67E-02	2.13E-03	2.13E-03	1.20E-03	1.20E-03
433	587479.2	4154184	0.01321	1.32E-02	2.69E-02	2.69E-02	2.14E-03	2.14E-03	1.21E-03	1.21E-03
434	587416.5	4154417	0.006482	6.48E-03	1.32E-02	1.32E-02	1.05E-03	1.05E-03	5.92E-04	5.92E-04
435	587414.6	4154408	0.006568	6.57E-03	1.34E-02	1.34E-02	1.06E-03	1.06E-03	6.00E-04	6.00E-04
436	587412.7	4154398	0.00665	6.65E-03	1.35E-02	1.35E-02	1.08E-03	1.08E-03	6.07E-04	6.07E-04
437	587410.8	4154389	0.006727	6.73E-03	1.37E-02	1.37E-02	1.09E-03	1.09E-03	6.14E-04	6.14E-04
438	587408.9	4154379	0.006802	6.80E-03	1.38E-02	1.38E-02	1.10E-03	1.10E-03	6.21E-04	6.21E-04
439	587407	4154370	0.006877	6.88E-03	1.40E-02	1.40E-02	1.11E-03	1.11E-03	6.28E-04	6.28E-04
440	587403.2	4154351	0.007025	7.03E-03	1.43E-02	1.43E-02	1.14E-03	1.14E-03	6.41E-04	6.41E-04
441	587401.3	4154341	0.0071	7.10E-03	1.44E-02	1.44E-02	1.15E-03	1.15E-03	6.48E-04	6.48E-04
442	587399.4	4154332	0.007174	7.17E-03	1.46E-02	1.46E-02	1.16E-03	1.16E-03	6.55E-04	6.55E-04
443	587397.4	4154323	0.007247	7.25E-03	1.47E-02	1.47E-02	1.17E-03	1.17E-03	6.62E-04	6.62E-04
444	587395.5	4154313	0.007319	7.32E-03	1.49E-02	1.49E-02	1.19E-03	1.19E-03	6.68E-04	6.68E-04
445	587393.6	4154304	0.007386	7.39E-03	1.50E-02	1.50E-02	1.20E-03	1.20E-03	6.74E-04	6.74E-04
446	587397.2	4154286	0.007857	7.86E-03	1.60E-02	1.60E-02	1.27E-03	1.27E-03	7.17E-04	7.17E-04
447	587402.7	4154278	0.008283	8.28E-03	1.68E-02	1.68E-02	1.34E-03	1.34E-03	7.56E-04	7.56E-04
448	587408.2	4154270	0.008726	8.73E-03	1.77E-02	1.77E-02	1.41E-03	1.41E-03	7.97E-04	7.97E-04
449	587413.6	4154262	0.009179	9.18E-03	1.87E-02	1.87E-02	1.49E-03	1.49E-03	8.38E-04	8.38E-04
450	587430.1	4154239	0.01053	1.05E-02	2.14E-02	2.14E-02	1.71E-03	1.71E-03	9.61E-04	9.61E-04
451	587435.6	4154231	0.01095	1.10E-02	2.23E-02	2.23E-02	1.77E-03	1.77E-03	1.00E-03	1.00E-03
452	587441	4154223	0.01134	1.13E-02	2.30E-02	2.30E-02	1.84E-03	1.84E-03	1.04E-03	1.04E-03
453	587452	4154207	0.01198	1.20E-02	2.44E-02	2.44E-02	1.94E-03	1.94E-03	1.09E-03	1.09E-03
454	587457.5	4154199	0.01221	1.22E-02	2.48E-02	2.48E-02	1.98E-03	1.98E-03	1.11E-03	1.11E-03
455	587463	4154191	0.01237	1.24E-02	2.51E-02	2.51E-02	2.00E-03	2.00E-03	1.13E-03	1.13E-03
456	587468.4	4154183	0.01247	1.25E-02	2.53E-02	2.53E-02	2.02E-03	2.02E-03	1.14E-03	1.14E-03
457	587404.6	4154405	0.006222	6.22E-03	1.26E-02	1.26E-02	1.01E-03	1.01E-03	5.68E-04	5.68E-04
458	587402.7	4154395	0.006292	6.29E-03	1.28E-02	1.28E-02	1.02E-03	1.02E-03	5.74E-04	5.74E-04
459	587400.8	4154386	0.00636	6.36E-03	1.29E-02	1.29E-02	1.03E-03	1.03E-03	5.81E-04	5.81E-04
460	587398.9	4154376	0.006427	6.43E-03	1.31E-02	1.31E-02	1.04E-03	1.04E-03	5.87E-04	5.87E-04
461	587387.6	4154320	0.006833	6.83E-03	1.39E-02	1.39E-02	1.11E-03	1.11E-03	6.24E-04	6.24E-04
462	587385.7	4154311	0.006899	6.90E-03	1.40E-02	1.40E-02	1.12E-03	1.12E-03	6.30E-04	6.30E-04
463	587383.8	4154302	0.006962	6.96E-03	1.42E-02	1.42E-02	1.13E-03	1.13E-03	6.36E-04	6.36E-04
464	587387.3	4154284	0.00739	7.39E-03	1.50E-02	1.50E-02	1.20E-03	1.20E-03	6.75E-04	6.75E-04
465	587392.8	4154276	0.007777	7.78E-03	1.58E-02	1.58E-02	1.26E-03	1.26E-03	7.10E-04	7.10E-04
466	587398.2	4154269	0.008178	8.18E-03	1.66E-02	1.66E-02	1.32E-03	1.32E-03	7.47E-04	7.47E-04
467	587403.6	4154261	0.008589	8.59E-03	1.75E-02	1.75E-02	1.39E-03	1.39E-03	7.84E-04	7.84E-04
468	587409	4154253	0.009005	9.01E-03	1.83E-02	1.83E-02	1.46E-03	1.46E-03	8.22E-04	8.22E-04
469	587414.5	4154245	0.00942	9.42E-03	1.91E-02	1.91E-02	1.53E-03	1.53E-03	8.60E-04	8.60E-04
470	587419.9	4154237	0.009828	9.83E-03	2.00E-02	2.00E-02	1.59E-03	1.59E-03	8.97E-04	8.97E-04
471	587425.3	4154229	0.01022	1.02E-02	2.08E-02	2.08E-02	1.66E-03	1.66E-03	9.33E-04	9.33E-04
472	587430.7	4154221	0.01059	1.06E-02	2.15E-02	2.15E-02	1.72E-03	1.72E-03	9.67E-04	9.67E-04
473	587447	4154198	0.01146	1.15E-02	2.33E-02	2.33E-02	1.86E-03	1.86E-03	1.05E-03	1.05E-03
474	587452.4	4154190	0.01165	1.17E-02	2.37E-02	2.37E-02	1.89E-03	1.89E-03	1.06E-03	1.06E-03
475	587457.8	4154182	0.01177	1.18E-02	2.39E-02	2.39E-02	1.91E-03	1.91E-03	1.07E-03	1.07E-03
476	587390.8	4154383	0.006023	6.02E-03	1.22E-02	1.22E-02	9.75E-04	9.75E-04	5.50E-04	5.50E-04
477	587375.9	4154309	0.006517	6.52E-03	1.32E-02	1.32E-02	1.06E-03	1.06E-03	5.95E-04	5.95E-04
478	587374	4154299	0.006576	6.58E-03	1.34E-02	1.34E-02	1.07E-03	1.07E-03	6.00E-04	6.00E-04
479	587377.5	4154282	0.006968	6.97E-03	1.42E-02	1.42E-02	1.13E-03	1.13E-03	6.36E-04	6.36E-04
480	587382.9	4154275	0.007319	7.32E-03	1.49E-02	1.49E-02	1.19E-03	1.19E-03	6.68E-04	6.68E-04
481	587388.2	4154267	0.007683	7.68E-03	1.56E-02	1.56E-02	1.24E-03	1.24E-03	7.01E-04	7.01E-04
482	587393.6	4154259	0.008058	8.06E-03	1.64E-02	1.64E-02	1.31E-03	1.31E-03	7.36E-04	7.36E-04
483	587399	4154251	0.008438	8.44E-03	1.72E-02	1.72E-02	1.37E-03	1.37E-03	7.70E-04	7.70E-04
484	587404.4	4154243	0.008819	8.82E-03	1.79E-02	1.79E-02	1.43E-03	1.43E-03	8.05E-04	8.05E-04
485	587409.7	4154236	0.009195	9.20E-03	1.87E-02	1.87E-02	1.49E-03	1.49E-03	8.40E-04	8.40E-04
486	587415.1	4154228	0.009559	9.56E-03	1.94E-02	1.94E-02	1.55E-03	1.55E-03	8.73E-04	8.73E-04
487	587420.5	4154220	0.009904	9.90E-03	2.01E-02	2.01E-02	1.60E-03	1.60E-03	9.04E-04	9.04E-04
488	587436.6	4154197	0.01076	1.08E-02	2.19E-02	2.19E-02	1.74E-03	1.74E-03	9.82E-04	9.82E-04
489	587441.9	4154189	0.01097	1.10E-02	2.23E-02	2.23E-02	1.78E-03	1.78E-03	1.00E-03	1.00E-03
490	587447.3	4154181	0.01111	1.11E-02	2.26E-02	2.26E-02	1.80E-03	1.80E-03	1.01E-03	1.01E-03
491	587364.3	4154298	0.006221	6.22E-03	1.26E-02	1.26E-02	1.01E-03	1.01E-03	5.68E-04	5.68E-04
492	587367.9	4154280	0.006599	6.60E-03	1.34E-02	1.34E-02	1.07E-03	1.07E-03	6.03E-04	6.03E-04
493	587373.5	4154272	0.006938	6.94E-03	1.41E-02	1.41E-02	1.12E-03	1.12E-03	6.33E-04	6.33E-04
494	587379.1	4154264	0.00729	7.29E-03	1.48E-02	1.48E-02	1.18E-03	1.18E-03	6.66E-04	6.66E-04
495	587384.7	4154256	0.007651	7.65E-03	1.56E-02	1.56E-02	1.24E-03	1.24E-03	6.99E-04	6.99E-04
496	587390.4	4154248	0.008018	8.02E-03	1.63E-02	1.63E-02	1.30E-03	1.30E-03	7.32E-04	7.32E-04
497	587396	4154239	0.008386	8.39E-03	1.70E-02	1.70E-02	1.36E-03	1.36E-03	7.66E-04	7.66E-04
498	587401.6	4154231	0.008749	8.75E-03	1.78E-02	1.78E-02	1.42E-03	1.42E-03	7.99E-04	7.99E-04
499	587407.2	4154223	0.0091	9.10E-03	1.85E-02	1.85E-02	1.47E-03	1.47E-03	8.31E-04	8.31E-04
500	587412.8	4154215	0.009431	9.43E-03	1.92E-02	1.92E-02	1.53E-03	1.53E-03	8.61E-04	8.61E-04
501	587424	4154199	0.01001	1.00E-02	2.03E-02	2.03E-02	1.62E-03	1.62E-03	9.14E-04	9.14E-04

502	587429.6	4154191	0.01025	1.03E-02	2.08E-02	2.08E-02	1.66E-03	1.66E-03	9.36E-04	9.36E-04
503	587435.2	4154183	0.01044	1.04E-02	2.12E-02	2.12E-02	1.69E-03	1.69E-03	9.53E-04	9.53E-04
504	587356.4	4154305	0.005843	5.84E-03	1.19E-02	1.19E-02	9.46E-04	9.46E-04	5.33E-04	5.33E-04
505	587354.5	4154296	0.005898	5.90E-03	1.20E-02	1.20E-02	9.55E-04	9.55E-04	5.39E-04	5.39E-04
506	587358.1	4154278	0.006246	6.25E-03	1.27E-02	1.27E-02	1.01E-03	1.01E-03	5.70E-04	5.70E-04
507	587363.6	4154270	0.006555	6.56E-03	1.33E-02	1.33E-02	1.06E-03	1.06E-03	5.99E-04	5.99E-04
508	587369.2	4154262	0.006876	6.88E-03	1.40E-02	1.40E-02	1.11E-03	1.11E-03	6.28E-04	6.28E-04
509	587374.7	4154254	0.007206	7.21E-03	1.46E-02	1.46E-02	1.17E-03	1.17E-03	6.58E-04	6.58E-04
510	587380.3	4154246	0.007543	7.54E-03	1.53E-02	1.53E-02	1.22E-03	1.22E-03	6.89E-04	6.89E-04
511	587385.8	4154238	0.007881	7.88E-03	1.60E-02	1.60E-02	1.28E-03	1.28E-03	7.20E-04	7.20E-04
512	587391.4	4154230	0.008217	8.22E-03	1.67E-02	1.67E-02	1.33E-03	1.33E-03	7.50E-04	7.50E-04
513	587396.9	4154222	0.008544	8.54E-03	1.74E-02	1.74E-02	1.38E-03	1.38E-03	7.80E-04	7.80E-04
514	587413.5	4154198	0.00941	9.41E-03	1.91E-02	1.91E-02	1.52E-03	1.52E-03	8.59E-04	8.59E-04
515	587419.1	4154190	0.009643	9.64E-03	1.96E-02	1.96E-02	1.56E-03	1.56E-03	8.80E-04	8.80E-04
516	587424.6	4154182	0.009839	9.84E-03	2.00E-02	2.00E-02	1.59E-03	1.59E-03	8.98E-04	8.98E-04
517	587430.2	4154174	0.01	1.00E-02	2.03E-02	2.03E-02	1.62E-03	1.62E-03	9.13E-04	9.13E-04
518	587348.5	4154313	0.005498	5.50E-03	1.12E-02	1.12E-02	8.90E-04	8.90E-04	5.02E-04	5.02E-04
519	587346.6	4154303	0.005551	5.55E-03	1.13E-02	1.13E-02	8.99E-04	8.99E-04	5.07E-04	5.07E-04
520	587344.7	4154294	0.005602	5.60E-03	1.14E-02	1.14E-02	9.07E-04	9.07E-04	5.11E-04	5.11E-04
521	587348.2	4154276	0.005922	5.92E-03	1.20E-02	1.20E-02	9.59E-04	9.59E-04	5.41E-04	5.41E-04
522	587353.7	4154268	0.006205	6.21E-03	1.26E-02	1.26E-02	1.00E-03	1.00E-03	5.67E-04	5.67E-04
523	587359.2	4154260	0.006499	6.50E-03	1.32E-02	1.32E-02	1.05E-03	1.05E-03	5.93E-04	5.93E-04
524	587364.7	4154252	0.006802	6.80E-03	1.38E-02	1.38E-02	1.10E-03	1.10E-03	6.21E-04	6.21E-04
525	587370.2	4154244	0.007111	7.11E-03	1.45E-02	1.45E-02	1.15E-03	1.15E-03	6.49E-04	6.49E-04
526	587375.7	4154236	0.007423	7.42E-03	1.51E-02	1.51E-02	1.20E-03	1.20E-03	6.78E-04	6.78E-04
527	587381.2	4154228	0.007733	7.73E-03	1.57E-02	1.57E-02	1.25E-03	1.25E-03	7.06E-04	7.06E-04
528	587386.7	4154220	0.008037	8.04E-03	1.63E-02	1.63E-02	1.30E-03	1.30E-03	7.34E-04	7.34E-04
529	587403.2	4154197	0.008861	8.86E-03	1.80E-02	1.80E-02	1.44E-03	1.44E-03	8.09E-04	8.09E-04
530	587408.7	4154189	0.009089	9.09E-03	1.85E-02	1.85E-02	1.47E-03	1.47E-03	8.30E-04	8.30E-04
531	587414.1	4154181	0.009286	9.29E-03	1.89E-02	1.89E-02	1.50E-03	1.50E-03	8.48E-04	8.48E-04
532	587419.6	4154173	0.00945	9.45E-03	1.92E-02	1.92E-02	1.53E-03	1.53E-03	8.63E-04	8.63E-04
533	587441.6	4154141	0.009693	9.69E-03	1.97E-02	1.97E-02	1.57E-03	1.57E-03	8.85E-04	8.85E-04
534	587447.1	4154133	0.009629	9.63E-03	1.96E-02	1.96E-02	1.56E-03	1.56E-03	8.79E-04	8.79E-04
535	587452.6	4154125	0.009526	9.53E-03	1.94E-02	1.94E-02	1.54E-03	1.54E-03	8.70E-04	8.70E-04
536	587338.6	4154310	0.005231	5.23E-03	1.06E-02	1.06E-02	8.47E-04	8.47E-04	4.78E-04	4.78E-04
537	587336.7	4154301	0.00528	5.28E-03	1.07E-02	1.07E-02	8.55E-04	8.55E-04	4.82E-04	4.82E-04
538	587334.8	4154292	0.005329	5.33E-03	1.08E-02	1.08E-02	8.63E-04	8.63E-04	4.87E-04	4.87E-04
539	587338.4	4154274	0.005624	5.62E-03	1.14E-02	1.14E-02	9.11E-04	9.11E-04	5.13E-04	5.13E-04
540	587343.8	4154266	0.005884	5.88E-03	1.20E-02	1.20E-02	9.53E-04	9.53E-04	5.37E-04	5.37E-04
541	587349.3	4154258	0.006154	6.15E-03	1.25E-02	1.25E-02	9.97E-04	9.97E-04	5.62E-04	5.62E-04
542	587354.7	4154251	0.006433	6.43E-03	1.31E-02	1.31E-02	1.04E-03	1.04E-03	5.87E-04	5.87E-04
543	587360.2	4154243	0.006717	6.72E-03	1.37E-02	1.37E-02	1.09E-03	1.09E-03	6.13E-04	6.13E-04
544	587365.6	4154235	0.007005	7.01E-03	1.42E-02	1.42E-02	1.13E-03	1.13E-03	6.40E-04	6.40E-04
545	587371.1	4154227	0.007293	7.29E-03	1.48E-02	1.48E-02	1.18E-03	1.18E-03	6.66E-04	6.66E-04
546	587376.5	4154219	0.007576	7.58E-03	1.54E-02	1.54E-02	1.23E-03	1.23E-03	6.92E-04	6.92E-04
547	587392.8	4154195	0.008356	8.36E-03	1.70E-02	1.70E-02	1.35E-03	1.35E-03	7.63E-04	7.63E-04
548	587398.3	4154187	0.008579	8.58E-03	1.74E-02	1.74E-02	1.39E-03	1.39E-03	7.83E-04	7.83E-04
549	587403.7	4154179	0.008775	8.78E-03	1.78E-02	1.78E-02	1.42E-03	1.42E-03	8.01E-04	8.01E-04
550	587409.2	4154172	0.008944	8.94E-03	1.82E-02	1.82E-02	1.45E-03	1.45E-03	8.17E-04	8.17E-04
551	587431	4154140	0.009271	9.27E-03	1.88E-02	1.88E-02	1.50E-03	1.50E-03	8.46E-04	8.46E-04
552	587436.4	4154132	0.009238	9.24E-03	1.88E-02	1.88E-02	1.50E-03	1.50E-03	8.43E-04	8.43E-04
553	587441.8	4154124	0.009165	9.17E-03	1.86E-02	1.86E-02	1.48E-03	1.48E-03	8.37E-04	8.37E-04
554	587447.3	4154116	0.009061	9.06E-03	1.84E-02	1.84E-02	1.47E-03	1.47E-03	8.27E-04	8.27E-04
555	587331	4154319	0.004929	4.93E-03	1.00E-02	1.00E-02	7.98E-04	7.98E-04	4.50E-04	4.50E-04
556	587329	4154309	0.004978	4.98E-03	1.01E-02	1.01E-02	8.06E-04	8.06E-04	4.55E-04	4.55E-04
557	587327.1	4154300	0.005027	5.03E-03	1.02E-02	1.02E-02	8.14E-04	8.14E-04	4.59E-04	4.59E-04
558	587325.1	4154290	0.005074	5.07E-03	1.03E-02	1.03E-02	8.22E-04	8.22E-04	4.63E-04	4.63E-04
559	587328.8	4154272	0.00536	5.36E-03	1.09E-02	1.09E-02	8.68E-04	8.68E-04	4.89E-04	4.89E-04
560	587334.4	4154264	0.005612	5.61E-03	1.14E-02	1.14E-02	9.09E-04	9.09E-04	5.12E-04	5.12E-04
561	587340.1	4154256	0.005873	5.87E-03	1.19E-02	1.19E-02	9.51E-04	9.51E-04	5.36E-04	5.36E-04
562	587345.7	4154247	0.006143	6.14E-03	1.25E-02	1.25E-02	9.95E-04	9.95E-04	5.61E-04	5.61E-04
563	587351.4	4154239	0.006418	6.42E-03	1.30E-02	1.30E-02	1.04E-03	1.04E-03	5.86E-04	5.86E-04
564	587357	4154231	0.006697	6.70E-03	1.36E-02	1.36E-02	1.08E-03	1.08E-03	6.11E-04	6.11E-04
565	587390.9	4154182	0.008216	8.22E-03	1.67E-02	1.67E-02	1.33E-03	1.33E-03	7.50E-04	7.50E-04
566	587396.6	4154174	0.008404	8.40E-03	1.71E-02	1.71E-02	1.36E-03	1.36E-03	7.67E-04	7.67E-04
567	587419.1	4154141	0.008846	8.85E-03	1.80E-02	1.80E-02	1.43E-03	1.43E-03	8.08E-04	8.08E-04
568	587424.8	4154133	0.008857	8.86E-03	1.80E-02	1.80E-02	1.43E-03	1.43E-03	8.09E-04	8.09E-04
569	587430.4	4154125	0.008815	8.82E-03	1.79E-02	1.79E-02	1.43E-03	1.43E-03	8.05E-04	8.05E-04
570	587436.1	4154116	0.008736	8.74E-03	1.78E-02	1.78E-02	1.41E-03	1.41E-03	7.98E-04	7.98E-04
571	587441.7	4154108	0.008644	8.64E-03	1.76E-02	1.76E-02	1.40E-03	1.40E-03	7.89E-04	7.89E-04
572	587323.1	4154326	0.004659	4.66E-03	9.47E-03	9.47E-03	7.55E-04	7.55E-04	4.25E-04	4.25E-04
573	587321.1	4154317	0.004705	4.71E-03	9.56E-03	9.56E-03	7.62E-04	7.62E-04	4.30E-04	4.30E-04

574	587319.2	4154307	0.004751	4.75E-03	9.66E-03	9.66E-03	7.69E-04	7.69E-04	4.34E-04	4.34E-04
575	587317.2	4154297	0.004796	4.80E-03	9.75E-03	9.75E-03	7.77E-04	7.77E-04	4.38E-04	4.38E-04
576	587315.3	4154288	0.004841	4.84E-03	9.84E-03	9.84E-03	7.84E-04	7.84E-04	4.42E-04	4.42E-04
577	587318.9	4154270	0.005106	5.11E-03	1.04E-02	1.04E-02	8.27E-04	8.27E-04	4.66E-04	4.66E-04
578	587324.5	4154262	0.005338	5.34E-03	1.09E-02	1.09E-02	8.65E-04	8.65E-04	4.87E-04	4.87E-04
579	587330.1	4154254	0.005579	5.58E-03	1.13E-02	1.13E-02	9.04E-04	9.04E-04	5.09E-04	5.09E-04
580	587335.7	4154246	0.005827	5.83E-03	1.18E-02	1.18E-02	9.44E-04	9.44E-04	5.32E-04	5.32E-04
581	587408.4	4154140	0.008435	8.44E-03	1.71E-02	1.71E-02	1.37E-03	1.37E-03	7.70E-04	7.70E-04
582	587414	4154132	0.008472	8.47E-03	1.72E-02	1.72E-02	1.37E-03	1.37E-03	7.74E-04	7.74E-04
583	587419.6	4154124	0.00846	8.46E-03	1.72E-02	1.72E-02	1.37E-03	1.37E-03	7.72E-04	7.72E-04
584	587425.2	4154116	0.008408	8.41E-03	1.71E-02	1.71E-02	1.36E-03	1.36E-03	7.68E-04	7.68E-04
585	587430.8	4154108	0.008338	8.34E-03	1.69E-02	1.69E-02	1.35E-03	1.35E-03	7.61E-04	7.61E-04
586	587436.4	4154100	0.008243	8.24E-03	1.68E-02	1.68E-02	1.34E-03	1.34E-03	7.53E-04	7.53E-04
587	587313.2	4154324	0.004453	4.45E-03	9.05E-03	9.05E-03	7.21E-04	7.21E-04	4.07E-04	4.07E-04
588	587311.3	4154314	0.004496	4.50E-03	9.14E-03	9.14E-03	7.28E-04	7.28E-04	4.11E-04	4.11E-04
589	587309.4	4154305	0.00454	4.54E-03	9.23E-03	9.23E-03	7.35E-04	7.35E-04	4.15E-04	4.15E-04
590	587307.4	4154295	0.004582	4.58E-03	9.31E-03	9.31E-03	7.42E-04	7.42E-04	4.18E-04	4.18E-04
591	587305.5	4154286	0.004625	4.63E-03	9.40E-03	9.40E-03	7.49E-04	7.49E-04	4.22E-04	4.22E-04
592	587309.1	4154268	0.004871	4.87E-03	9.90E-03	9.90E-03	7.89E-04	7.89E-04	4.45E-04	4.45E-04
593	587314.6	4154260	0.005085	5.09E-03	1.03E-02	1.03E-02	8.24E-04	8.24E-04	4.64E-04	4.64E-04
594	587347.9	4154212	0.00649	6.49E-03	1.32E-02	1.32E-02	1.05E-03	1.05E-03	5.93E-04	5.93E-04
595	587353.5	4154204	0.006724	6.72E-03	1.37E-02	1.37E-02	1.09E-03	1.09E-03	6.14E-04	6.14E-04
596	587359	4154196	0.006951	6.95E-03	1.41E-02	1.41E-02	1.13E-03	1.13E-03	6.35E-04	6.35E-04
597	587364.6	4154188	0.007167	7.17E-03	1.46E-02	1.46E-02	1.16E-03	1.16E-03	6.54E-04	6.54E-04
598	587370.1	4154180	0.007367	7.37E-03	1.50E-02	1.50E-02	1.19E-03	1.19E-03	6.73E-04	6.73E-04
599	587397.8	4154139	0.008045	8.05E-03	1.64E-02	1.64E-02	1.30E-03	1.30E-03	7.35E-04	7.35E-04
600	587403.4	4154131	0.008099	8.10E-03	1.65E-02	1.65E-02	1.31E-03	1.31E-03	7.39E-04	7.39E-04
601	587408.9	4154123	0.00811	8.11E-03	1.65E-02	1.65E-02	1.31E-03	1.31E-03	7.40E-04	7.40E-04
602	587414.5	4154115	0.008084	8.08E-03	1.64E-02	1.64E-02	1.31E-03	1.31E-03	7.38E-04	7.38E-04
603	587420	4154107	0.008035	8.04E-03	1.63E-02	1.63E-02	1.30E-03	1.30E-03	7.34E-04	7.34E-04
604	587425.6	4154099	0.007959	7.96E-03	1.62E-02	1.62E-02	1.29E-03	1.29E-03	7.27E-04	7.27E-04
605	587431.1	4154091	0.007864	7.86E-03	1.60E-02	1.60E-02	1.27E-03	1.27E-03	7.18E-04	7.18E-04
606	587305.3	4154331	0.004222	4.22E-03	8.58E-03	8.58E-03	6.84E-04	6.84E-04	3.85E-04	3.85E-04
607	587303.3	4154322	0.004262	4.26E-03	8.66E-03	8.66E-03	6.90E-04	6.90E-04	3.89E-04	3.89E-04
608	587301.4	4154312	0.004302	4.30E-03	8.74E-03	8.74E-03	6.97E-04	6.97E-04	3.93E-04	3.93E-04
609	587299.5	4154303	0.004343	4.34E-03	8.83E-03	8.83E-03	7.03E-04	7.03E-04	3.97E-04	3.97E-04
610	587297.6	4154293	0.004384	4.38E-03	8.91E-03	8.91E-03	7.10E-04	7.10E-04	4.00E-04	4.00E-04
611	587295.7	4154284	0.004423	4.42E-03	8.99E-03	8.99E-03	7.16E-04	7.16E-04	4.04E-04	4.04E-04
612	587321.3	4154234	0.005488	5.49E-03	1.12E-02	1.12E-02	8.89E-04	8.89E-04	5.01E-04	5.01E-04
613	587337.8	4154210	0.006156	6.16E-03	1.25E-02	1.25E-02	9.97E-04	9.97E-04	5.62E-04	5.62E-04
614	587343.3	4154202	0.006376	6.38E-03	1.30E-02	1.30E-02	1.03E-03	1.03E-03	5.82E-04	5.82E-04
615	587348.8	4154194	0.006591	6.59E-03	1.34E-02	1.34E-02	1.07E-03	1.07E-03	6.02E-04	6.02E-04
616	587354.3	4154186	0.006796	6.80E-03	1.38E-02	1.38E-02	1.10E-03	1.10E-03	6.21E-04	6.21E-04
617	587359.8	4154178	0.006989	6.99E-03	1.42E-02	1.42E-02	1.13E-03	1.13E-03	6.38E-04	6.38E-04
618	587365.3	4154170	0.007167	7.17E-03	1.46E-02	1.46E-02	1.16E-03	1.16E-03	6.54E-04	6.54E-04
619	587398.3	4154123	0.007772	7.77E-03	1.58E-02	1.58E-02	1.26E-03	1.26E-03	7.10E-04	7.10E-04
620	587403.8	4154115	0.007767	7.77E-03	1.58E-02	1.58E-02	1.26E-03	1.26E-03	7.09E-04	7.09E-04
621	587409.3	4154107	0.00774	7.74E-03	1.57E-02	1.57E-02	1.25E-03	1.25E-03	7.07E-04	7.07E-04
622	587414.8	4154099	0.007685	7.69E-03	1.56E-02	1.56E-02	1.24E-03	1.24E-03	7.02E-04	7.02E-04
623	587420.3	4154091	0.007604	7.60E-03	1.55E-02	1.55E-02	1.23E-03	1.23E-03	6.94E-04	6.94E-04
624	587425.8	4154083	0.007506	7.51E-03	1.53E-02	1.53E-02	1.22E-03	1.22E-03	6.85E-04	6.85E-04
625	587689.9	4154487	0.0156	1.56E-02	3.17E-02	3.17E-02	2.53E-03	2.53E-03	1.42E-03	1.42E-03
626	587706.3	4154480	0.01773	1.77E-02	3.60E-02	3.60E-02	2.87E-03	2.87E-03	1.62E-03	1.62E-03
627	587714.2	4154474	0.01947	1.95E-02	3.96E-02	3.96E-02	3.15E-03	3.15E-03	1.78E-03	1.78E-03
628	587722	4154469	0.02141	2.14E-02	4.35E-02	4.35E-02	3.47E-03	3.47E-03	1.95E-03	1.95E-03
629	587729.9	4154464	0.02352	2.35E-02	4.78E-02	4.78E-02	3.81E-03	3.81E-03	2.15E-03	2.15E-03
630	587737.8	4154458	0.02576	2.58E-02	5.24E-02	5.24E-02	4.17E-03	4.17E-03	2.35E-03	2.35E-03
631	587745.7	4154453	0.02809	2.81E-02	5.71E-02	5.71E-02	4.55E-03	4.55E-03	2.56E-03	2.56E-03
632	587695.6	4154495	0.01385	1.39E-02	2.82E-02	2.82E-02	2.24E-03	2.24E-03	1.26E-03	1.26E-03
633	587678.8	4154498	0.01294	1.29E-02	2.63E-02	2.63E-02	2.10E-03	2.10E-03	1.18E-03	1.18E-03
634	587662	4154502	0.01202	1.20E-02	2.44E-02	2.44E-02	1.95E-03	1.95E-03	1.10E-03	1.10E-03
635	587711.9	4154488	0.01556	1.56E-02	3.16E-02	3.16E-02	2.52E-03	2.52E-03	1.42E-03	1.42E-03
636	587719.7	4154483	0.01696	1.70E-02	3.45E-02	3.45E-02	2.75E-03	2.75E-03	1.55E-03	1.55E-03
637	587727.6	4154477	0.0185	1.85E-02	3.76E-02	3.76E-02	3.00E-03	3.00E-03	1.69E-03	1.69E-03
638	587735.5	4154472	0.02017	2.02E-02	4.10E-02	4.10E-02	3.27E-03	3.27E-03	1.84E-03	1.84E-03
639	587743.4	4154467	0.02196	2.20E-02	4.46E-02	4.46E-02	3.56E-03	3.56E-03	2.01E-03	2.01E-03
640	587751.3	4154461	0.02382	2.38E-02	4.84E-02	4.84E-02	3.86E-03	3.86E-03	2.17E-03	2.17E-03
641	587759.1	4154456	0.02573	2.57E-02	5.23E-02	5.23E-02	4.17E-03	4.17E-03	2.35E-03	2.35E-03
642	587701.3	4154503	0.01239	1.24E-02	2.52E-02	2.52E-02	2.01E-03	2.01E-03	1.13E-03	1.13E-03
643	587684.7	4154507	0.01165	1.17E-02	2.37E-02	2.37E-02	1.89E-03	1.89E-03	1.06E-03	1.06E-03
644	587668.1	4154510	0.01091	1.09E-02	2.22E-02	2.22E-02	1.77E-03	1.77E-03	9.96E-04	9.96E-04
645	587651.5	4154513	0.01019	1.02E-02	2.07E-02	2.07E-02	1.65E-03	1.65E-03	9.30E-04	9.30E-04

646	587717.5	4154496	0.01378	1.38E-02	2.80E-02	2.80E-02	2.23E-03	2.23E-03	1.26E-03	1.26E-03
647	587725.3	4154491	0.01493	1.49E-02	3.03E-02	3.03E-02	2.42E-03	2.42E-03	1.36E-03	1.36E-03
648	587733.2	4154486	0.01617	1.62E-02	3.29E-02	3.29E-02	2.62E-03	2.62E-03	1.48E-03	1.48E-03
649	587741.1	4154480	0.01752	1.75E-02	3.56E-02	3.56E-02	2.84E-03	2.84E-03	1.60E-03	1.60E-03
650	587749	4154475	0.01897	1.90E-02	3.86E-02	3.86E-02	3.07E-03	3.07E-03	1.73E-03	1.73E-03
651	587756.8	4154470	0.02048	2.05E-02	4.16E-02	4.16E-02	3.32E-03	3.32E-03	1.87E-03	1.87E-03
652	587764.7	4154464	0.02204	2.20E-02	4.48E-02	4.48E-02	3.57E-03	3.57E-03	2.01E-03	2.01E-03
653	587706	4154512	0.01112	1.11E-02	2.26E-02	2.26E-02	1.80E-03	1.80E-03	1.02E-03	1.02E-03
654	587696.9	4154513	0.01078	1.08E-02	2.19E-02	2.19E-02	1.75E-03	1.75E-03	9.84E-04	9.84E-04
655	587687.8	4154515	0.01044	1.04E-02	2.12E-02	2.12E-02	1.69E-03	1.69E-03	9.53E-04	9.53E-04
656	587678.7	4154517	0.0101	1.01E-02	2.05E-02	2.05E-02	1.64E-03	1.64E-03	9.22E-04	9.22E-04
657	587669.6	4154519	0.00976	9.76E-03	1.98E-02	1.98E-02	1.58E-03	1.58E-03	8.91E-04	8.91E-04
658	587660.4	4154521	0.009427	9.43E-03	1.92E-02	1.92E-02	1.53E-03	1.53E-03	8.61E-04	8.61E-04
659	587651.3	4154523	0.009104	9.10E-03	1.85E-02	1.85E-02	1.47E-03	1.47E-03	8.31E-04	8.31E-04
660	587642.2	4154525	0.008793	8.79E-03	1.79E-02	1.79E-02	1.42E-03	1.42E-03	8.03E-04	8.03E-04
661	587754.6	4154483	0.01657	1.66E-02	3.37E-02	3.37E-02	2.68E-03	2.68E-03	1.51E-03	1.51E-03
662	587762.4	4154478	0.01781	1.78E-02	3.62E-02	3.62E-02	2.88E-03	2.88E-03	1.63E-03	1.63E-03
663	587770.3	4154473	0.01909	1.91E-02	3.88E-02	3.88E-02	3.09E-03	3.09E-03	1.74E-03	1.74E-03
664	587684.9	4154525	0.00923	9.23E-03	1.88E-02	1.88E-02	1.49E-03	1.49E-03	8.43E-04	8.43E-04
665	587676	4154527	0.008948	8.95E-03	1.82E-02	1.82E-02	1.45E-03	1.45E-03	8.17E-04	8.17E-04
666	587667	4154529	0.008669	8.67E-03	1.76E-02	1.76E-02	1.40E-03	1.40E-03	7.92E-04	7.92E-04
667	587658.1	4154531	0.008397	8.40E-03	1.71E-02	1.71E-02	1.36E-03	1.36E-03	7.67E-04	7.67E-04
668	587649.1	4154533	0.008134	8.13E-03	1.65E-02	1.65E-02	1.32E-03	1.32E-03	7.43E-04	7.43E-04
669	587640.1	4154535	0.00788	7.88E-03	1.60E-02	1.60E-02	1.28E-03	1.28E-03	7.19E-04	7.19E-04
670	587623.5	4154531	0.007956	7.96E-03	1.62E-02	1.62E-02	1.29E-03	1.29E-03	7.26E-04	7.26E-04
671	587760.1	4154491	0.01461	1.46E-02	2.97E-02	2.97E-02	2.37E-03	2.37E-03	1.33E-03	1.33E-03
672	587768	4154486	0.01564	1.56E-02	3.18E-02	3.18E-02	2.53E-03	2.53E-03	1.43E-03	1.43E-03
673	587775.9	4154481	0.01671	1.67E-02	3.40E-02	3.40E-02	2.71E-03	2.71E-03	1.53E-03	1.53E-03
674	587717.5	4154528	0.009166	9.17E-03	1.86E-02	1.86E-02	1.48E-03	1.48E-03	8.37E-04	8.37E-04
675	587647	4154543	0.007317	7.32E-03	1.49E-02	1.49E-02	1.19E-03	1.19E-03	6.68E-04	6.68E-04
676	587638.1	4154544	0.007108	7.11E-03	1.44E-02	1.44E-02	1.15E-03	1.15E-03	6.49E-04	6.49E-04
677	587621.8	4154541	0.00718	7.18E-03	1.46E-02	1.46E-02	1.16E-03	1.16E-03	6.56E-04	6.56E-04
678	587614.2	4154536	0.00746	7.46E-03	1.52E-02	1.52E-02	1.21E-03	1.21E-03	6.81E-04	6.81E-04
679	587734.2	4154521	0.01001	1.00E-02	2.03E-02	2.03E-02	1.62E-03	1.62E-03	9.14E-04	9.14E-04
680	587742.1	4154516	0.01068	1.07E-02	2.17E-02	2.17E-02	1.73E-03	1.73E-03	9.75E-04	9.75E-04
681	587765.7	4154500	0.01299	1.30E-02	2.64E-02	2.64E-02	2.10E-03	2.10E-03	1.19E-03	1.19E-03
682	587773.6	4154494	0.01385	1.39E-02	2.82E-02	2.82E-02	2.24E-03	2.24E-03	1.26E-03	1.26E-03
683	587781.5	4154489	0.01475	1.48E-02	3.00E-02	3.00E-02	2.39E-03	2.39E-03	1.35E-03	1.35E-03
684	587723.2	4154536	0.008382	8.38E-03	1.70E-02	1.70E-02	1.36E-03	1.36E-03	7.65E-04	7.65E-04
685	587705.8	4154540	0.007991	7.99E-03	1.62E-02	1.62E-02	1.29E-03	1.29E-03	7.30E-04	7.30E-04
686	587636.1	4154554	0.006448	6.45E-03	1.31E-02	1.31E-02	1.04E-03	1.04E-03	5.89E-04	5.89E-04
687	587620	4154551	0.006515	6.52E-03	1.32E-02	1.32E-02	1.06E-03	1.06E-03	5.95E-04	5.95E-04
688	587605.1	4154541	0.007005	7.01E-03	1.42E-02	1.42E-02	1.13E-03	1.13E-03	6.40E-04	6.40E-04
689	587739.8	4154529	0.009106	9.11E-03	1.85E-02	1.85E-02	1.47E-03	1.47E-03	8.31E-04	8.31E-04
690	587747.7	4154524	0.009678	9.68E-03	1.97E-02	1.97E-02	1.57E-03	1.57E-03	8.84E-04	8.84E-04
691	587771.3	4154508	0.01164	1.16E-02	2.37E-02	2.37E-02	1.89E-03	1.89E-03	1.06E-03	1.06E-03
692	587779.2	4154503	0.01236	1.24E-02	2.51E-02	2.51E-02	2.00E-03	2.00E-03	1.13E-03	1.13E-03
693	587787.1	4154497	0.01312	1.31E-02	2.67E-02	2.67E-02	2.12E-03	2.12E-03	1.20E-03	1.20E-03
694	587728.9	4154545	0.007698	7.70E-03	1.56E-02	1.56E-02	1.25E-03	1.25E-03	7.03E-04	7.03E-04
695	587711.7	4154548	0.007364	7.36E-03	1.50E-02	1.50E-02	1.19E-03	1.19E-03	6.72E-04	6.72E-04
696	587694.5	4154552	0.00702	7.02E-03	1.43E-02	1.43E-02	1.14E-03	1.14E-03	6.41E-04	6.41E-04
697	587677.2	4154555	0.006675	6.68E-03	1.36E-02	1.36E-02	1.08E-03	1.08E-03	6.09E-04	6.09E-04
698	587618.2	4154561	0.005942	5.94E-03	1.21E-02	1.21E-02	9.62E-04	9.62E-04	5.43E-04	5.43E-04
699	587603.5	4154551	0.006369	6.37E-03	1.29E-02	1.29E-02	1.03E-03	1.03E-03	5.82E-04	5.82E-04
700	587745.4	4154538	0.008321	8.32E-03	1.69E-02	1.69E-02	1.35E-03	1.35E-03	7.60E-04	7.60E-04
701	587753.3	4154532	0.008813	8.81E-03	1.79E-02	1.79E-02	1.43E-03	1.43E-03	8.05E-04	8.05E-04
702	587776.9	4154516	0.01049	1.05E-02	2.13E-02	2.13E-02	1.70E-03	1.70E-03	9.58E-04	9.58E-04
703	587784.8	4154511	0.01111	1.11E-02	2.26E-02	2.26E-02	1.80E-03	1.80E-03	1.01E-03	1.01E-03
704	587792.7	4154506	0.01176	1.18E-02	2.39E-02	2.39E-02	1.90E-03	1.90E-03	1.07E-03	1.07E-03
705	587733.9	4154553	0.007084	7.08E-03	1.44E-02	1.44E-02	1.15E-03	1.15E-03	6.47E-04	6.47E-04
706	587724.7	4154555	0.006932	6.93E-03	1.41E-02	1.41E-02	1.12E-03	1.12E-03	6.33E-04	6.33E-04
707	587715.6	4154557	0.006775	6.78E-03	1.38E-02	1.38E-02	1.10E-03	1.10E-03	6.19E-04	6.19E-04
708	587706.4	4154559	0.006616	6.62E-03	1.34E-02	1.34E-02	1.07E-03	1.07E-03	6.04E-04	6.04E-04
709	587678.8	4154564	0.006133	6.13E-03	1.25E-02	1.25E-02	9.93E-04	9.93E-04	5.60E-04	5.60E-04
710	587669.6	4154566	0.005975	5.98E-03	1.21E-02	1.21E-02	9.68E-04	9.68E-04	5.46E-04	5.46E-04
711	587660.4	4154568	0.005822	5.82E-03	1.18E-02	1.18E-02	9.43E-04	9.43E-04	5.32E-04	5.32E-04
712	587651.2	4154570	0.005673	5.67E-03	1.15E-02	1.15E-02	9.19E-04	9.19E-04	5.18E-04	5.18E-04
713	587608	4154565	0.005658	5.66E-03	1.15E-02	1.15E-02	9.16E-04	9.16E-04	5.17E-04	5.17E-04
714	587600.1	4154560	0.005863	5.86E-03	1.19E-02	1.19E-02	9.50E-04	9.50E-04	5.35E-04	5.35E-04
715	587592.3	4154555	0.006073	6.07E-03	1.23E-02	1.23E-02	9.84E-04	9.84E-04	5.54E-04	5.54E-04
716	587743.1	4154551	0.007234	7.23E-03	1.47E-02	1.47E-02	1.17E-03	1.17E-03	6.60E-04	6.60E-04
717	587751	4154546	0.007636	7.64E-03	1.55E-02	1.55E-02	1.24E-03	1.24E-03	6.97E-04	6.97E-04

718	587758.9	4154541	0.008063	8.06E-03	1.64E-02	1.64E-02	1.31E-03	1.31E-03	7.36E-04	7.36E-04
719	587782.5	4154525	0.009505	9.51E-03	1.93E-02	1.93E-02	1.54E-03	1.54E-03	8.68E-04	8.68E-04
720	587790.4	4154519	0.01004	1.00E-02	2.04E-02	2.04E-02	1.63E-03	1.63E-03	9.17E-04	9.17E-04
721	587798.3	4154514	0.0106	1.06E-02	2.15E-02	2.15E-02	1.72E-03	1.72E-03	9.68E-04	9.68E-04
722	587739.6	4154561	0.006554	6.55E-03	1.33E-02	1.33E-02	1.06E-03	1.06E-03	5.98E-04	5.98E-04
723	587730.6	4154563	0.006423	6.42E-03	1.31E-02	1.31E-02	1.04E-03	1.04E-03	5.86E-04	5.86E-04
724	587721.5	4154565	0.006288	6.29E-03	1.28E-02	1.28E-02	1.02E-03	1.02E-03	5.74E-04	5.74E-04
725	587712.4	4154567	0.00615	6.15E-03	1.25E-02	1.25E-02	9.96E-04	9.96E-04	5.62E-04	5.62E-04
726	587703.4	4154569	0.006011	6.01E-03	1.22E-02	1.22E-02	9.74E-04	9.74E-04	5.49E-04	5.49E-04
727	587685.3	4154572	0.00573	5.73E-03	1.16E-02	1.16E-02	9.28E-04	9.28E-04	5.23E-04	5.23E-04
728	587676.2	4154574	0.005592	5.59E-03	1.14E-02	1.14E-02	9.06E-04	9.06E-04	5.11E-04	5.11E-04
729	587667.1	4154576	0.005457	5.46E-03	1.11E-02	1.11E-02	8.84E-04	8.84E-04	4.98E-04	4.98E-04
730	587658.1	4154578	0.005325	5.33E-03	1.08E-02	1.08E-02	8.62E-04	8.62E-04	4.86E-04	4.86E-04
731	587649	4154580	0.005193	5.19E-03	1.06E-02	1.06E-02	8.41E-04	8.41E-04	4.74E-04	4.74E-04
732	587639.9	4154582	0.005068	5.07E-03	1.03E-02	1.03E-02	8.21E-04	8.21E-04	4.63E-04	4.63E-04
733	587630.9	4154584	0.004951	4.95E-03	1.01E-02	1.01E-02	8.02E-04	8.02E-04	4.52E-04	4.52E-04
734	587598.6	4154570	0.005376	5.38E-03	1.09E-02	1.09E-02	8.71E-04	8.71E-04	4.91E-04	4.91E-04
735	587590.8	4154565	0.00556	5.56E-03	1.13E-02	1.13E-02	9.00E-04	9.00E-04	5.08E-04	5.08E-04
736	587583.1	4154560	0.005746	5.75E-03	1.17E-02	1.17E-02	9.31E-04	9.31E-04	5.25E-04	5.25E-04
737	587748.7	4154559	0.006681	6.68E-03	1.36E-02	1.36E-02	1.08E-03	1.08E-03	6.10E-04	6.10E-04
738	587756.6	4154554	0.007033	7.03E-03	1.43E-02	1.43E-02	1.14E-03	1.14E-03	6.42E-04	6.42E-04
739	587764.5	4154549	0.007406	7.41E-03	1.51E-02	1.51E-02	1.20E-03	1.20E-03	6.76E-04	6.76E-04
740	587788.1	4154533	0.008657	8.66E-03	1.76E-02	1.76E-02	1.40E-03	1.40E-03	7.90E-04	7.90E-04
741	587796	4154528	0.009119	9.12E-03	1.85E-02	1.85E-02	1.48E-03	1.48E-03	8.33E-04	8.33E-04
742	587803.8	4154522	0.0096	9.60E-03	1.95E-02	1.95E-02	1.55E-03	1.55E-03	8.77E-04	8.77E-04
743	587745.3	4154570	0.006081	6.08E-03	1.24E-02	1.24E-02	9.85E-04	9.85E-04	5.55E-04	5.55E-04
744	587736.4	4154571	0.005968	5.97E-03	1.21E-02	1.21E-02	9.67E-04	9.67E-04	5.45E-04	5.45E-04
745	587727.4	4154573	0.005851	5.85E-03	1.19E-02	1.19E-02	9.48E-04	9.48E-04	5.34E-04	5.34E-04
746	587718.5	4154575	0.005732	5.73E-03	1.17E-02	1.17E-02	9.28E-04	9.28E-04	5.23E-04	5.23E-04
747	587709.5	4154577	0.00561	5.61E-03	1.14E-02	1.14E-02	9.09E-04	9.09E-04	5.12E-04	5.12E-04
748	587691.6	4154581	0.005365	5.37E-03	1.09E-02	1.09E-02	8.69E-04	8.69E-04	4.90E-04	4.90E-04
749	587682.6	4154582	0.005243	5.24E-03	1.07E-02	1.07E-02	8.49E-04	8.49E-04	4.79E-04	4.79E-04
750	587673.7	4154584	0.005123	5.12E-03	1.04E-02	1.04E-02	8.30E-04	8.30E-04	4.68E-04	4.68E-04
751	587664.7	4154586	0.005002	5.00E-03	1.02E-02	1.02E-02	8.10E-04	8.10E-04	4.57E-04	4.57E-04
752	587655.8	4154588	0.004885	4.89E-03	9.93E-03	9.93E-03	7.91E-04	7.91E-04	4.46E-04	4.46E-04
753	587646.8	4154590	0.004774	4.77E-03	9.70E-03	9.70E-03	7.73E-04	7.73E-04	4.36E-04	4.36E-04
754	587637.8	4154592	0.004669	4.67E-03	9.49E-03	9.49E-03	7.56E-04	7.56E-04	4.26E-04	4.26E-04
755	587628.9	4154593	0.00457	4.57E-03	9.29E-03	9.29E-03	7.40E-04	7.40E-04	4.17E-04	4.17E-04
756	587589.3	4154575	0.005112	5.11E-03	1.04E-02	1.04E-02	8.28E-04	8.28E-04	4.67E-04	4.67E-04
757	587581.7	4154570	0.005278	5.28E-03	1.07E-02	1.07E-02	8.55E-04	8.55E-04	4.82E-04	4.82E-04
758	587574	4154565	0.005443	5.44E-03	1.11E-02	1.11E-02	8.82E-04	8.82E-04	4.97E-04	4.97E-04
759	587754.3	4154568	0.006191	6.19E-03	1.26E-02	1.26E-02	1.00E-03	1.00E-03	5.65E-04	5.65E-04
760	587762.2	4154562	0.006501	6.50E-03	1.32E-02	1.32E-02	1.05E-03	1.05E-03	5.94E-04	5.94E-04
761	587770	4154557	0.006829	6.83E-03	1.39E-02	1.39E-02	1.11E-03	1.11E-03	6.24E-04	6.24E-04
762	587785.8	4154547	0.007539	7.54E-03	1.53E-02	1.53E-02	1.22E-03	1.22E-03	6.88E-04	6.88E-04
763	587793.7	4154541	0.007921	7.92E-03	1.61E-02	1.61E-02	1.28E-03	1.28E-03	7.23E-04	7.23E-04
764	587801.6	4154536	0.008323	8.32E-03	1.69E-02	1.69E-02	1.35E-03	1.35E-03	7.60E-04	7.60E-04
765	587809.4	4154531	0.008742	8.74E-03	1.78E-02	1.78E-02	1.42E-03	1.42E-03	7.98E-04	7.98E-04
766	587751	4154578	0.005658	5.66E-03	1.15E-02	1.15E-02	9.16E-04	9.16E-04	5.17E-04	5.17E-04
767	587742.2	4154580	0.00556	5.56E-03	1.13E-02	1.13E-02	9.00E-04	9.00E-04	5.08E-04	5.08E-04
768	587724.4	4154583	0.005354	5.35E-03	1.09E-02	1.09E-02	8.67E-04	8.67E-04	4.89E-04	4.89E-04
769	587715.6	4154585	0.005248	5.25E-03	1.07E-02	1.07E-02	8.50E-04	8.50E-04	4.79E-04	4.79E-04
770	587697.8	4154589	0.005032	5.03E-03	1.02E-02	1.02E-02	8.15E-04	8.15E-04	4.59E-04	4.59E-04
771	587689	4154591	0.004924	4.92E-03	1.00E-02	1.00E-02	7.97E-04	7.97E-04	4.50E-04	4.50E-04
772	587680.1	4154592	0.004817	4.82E-03	9.79E-03	9.79E-03	7.80E-04	7.80E-04	4.40E-04	4.40E-04
773	587671.2	4154594	0.004708	4.71E-03	9.57E-03	9.57E-03	7.62E-04	7.62E-04	4.30E-04	4.30E-04
774	587662.4	4154596	0.004599	4.60E-03	9.35E-03	9.35E-03	7.45E-04	7.45E-04	4.20E-04	4.20E-04
775	587653.5	4154598	0.004501	4.50E-03	9.15E-03	9.15E-03	7.29E-04	7.29E-04	4.11E-04	4.11E-04
776	587644.7	4154600	0.004407	4.41E-03	8.96E-03	8.96E-03	7.14E-04	7.14E-04	4.02E-04	4.02E-04
777	587610.5	4154600	0.004284	4.28E-03	8.71E-03	8.71E-03	6.94E-04	6.94E-04	3.91E-04	3.91E-04
778	587587.8	4154585	0.004716	4.72E-03	9.59E-03	9.59E-03	7.64E-04	7.64E-04	4.31E-04	4.31E-04
779	587580.2	4154580	0.004866	4.87E-03	9.89E-03	9.89E-03	7.88E-04	7.88E-04	4.44E-04	4.44E-04
780	587565.1	4154570	0.005162	5.16E-03	1.05E-02	1.05E-02	8.36E-04	8.36E-04	4.71E-04	4.71E-04
781	587759.9	4154576	0.005754	5.75E-03	1.17E-02	1.17E-02	9.32E-04	9.32E-04	5.25E-04	5.25E-04
782	587767.8	4154571	0.006029	6.03E-03	1.23E-02	1.23E-02	9.76E-04	9.76E-04	5.50E-04	5.50E-04
783	587775.6	4154565	0.006318	6.32E-03	1.28E-02	1.28E-02	1.02E-03	1.02E-03	5.77E-04	5.77E-04
784	587791.4	4154555	0.006942	6.94E-03	1.41E-02	1.41E-02	1.12E-03	1.12E-03	6.34E-04	6.34E-04
785	587799.3	4154550	0.007278	7.28E-03	1.48E-02	1.48E-02	1.18E-03	1.18E-03	6.65E-04	6.65E-04
786	587807.1	4154544	0.007629	7.63E-03	1.55E-02	1.55E-02	1.24E-03	1.24E-03	6.97E-04	6.97E-04
787	587815	4154539	0.007996	8.00E-03	1.63E-02	1.63E-02	1.30E-03	1.30E-03	7.30E-04	7.30E-04
788	587756.7	4154586	0.005279	5.28E-03	1.07E-02	1.07E-02	8.55E-04	8.55E-04	4.82E-04	4.82E-04
789	587739.1	4154590	0.005104	5.10E-03	1.04E-02	1.04E-02	8.27E-04	8.27E-04	4.66E-04	4.66E-04

790	587721.6	4154593	0.004919	4.92E-03	1.00E-02	1.00E-02	7.97E-04	7.97E-04	4.49E-04	4.49E-04
791	587695.2	4154599	0.004633	4.63E-03	9.42E-03	9.42E-03	7.50E-04	7.50E-04	4.23E-04	4.23E-04
792	587677.7	4154602	0.004441	4.44E-03	9.03E-03	9.03E-03	7.19E-04	7.19E-04	4.05E-04	4.05E-04
793	587660.1	4154606	0.004252	4.25E-03	8.64E-03	8.64E-03	6.89E-04	6.89E-04	3.88E-04	3.88E-04
794	587642.5	4154610	0.004085	4.09E-03	8.30E-03	8.30E-03	6.62E-04	6.62E-04	3.73E-04	3.73E-04
795	587608.7	4154610	0.00398	3.98E-03	8.09E-03	8.09E-03	6.45E-04	6.45E-04	3.63E-04	3.63E-04
796	587571.2	4154586	0.004635	4.64E-03	9.42E-03	9.42E-03	7.51E-04	7.51E-04	4.23E-04	4.23E-04
797	587563.7	4154581	0.00477	4.77E-03	9.70E-03	9.70E-03	7.73E-04	7.73E-04	4.36E-04	4.36E-04
798	587773.3	4154579	0.005607	5.61E-03	1.14E-02	1.14E-02	9.08E-04	9.08E-04	5.12E-04	5.12E-04
799	587781.2	4154574	0.005864	5.86E-03	1.19E-02	1.19E-02	9.50E-04	9.50E-04	5.35E-04	5.35E-04
800	587797	4154563	0.006415	6.42E-03	1.30E-02	1.30E-02	1.04E-03	1.04E-03	5.86E-04	5.86E-04
801	587804.9	4154558	0.006711	6.71E-03	1.36E-02	1.36E-02	1.09E-03	1.09E-03	6.13E-04	6.13E-04
802	587812.7	4154552	0.007021	7.02E-03	1.43E-02	1.43E-02	1.14E-03	1.14E-03	6.41E-04	6.41E-04
803	587820.6	4154547	0.007343	7.34E-03	1.49E-02	1.49E-02	1.19E-03	1.19E-03	6.70E-04	6.70E-04
804	587761.8	4154595	0.004932	4.93E-03	1.00E-02	1.00E-02	7.99E-04	7.99E-04	4.50E-04	4.50E-04
805	587752.6	4154596	0.004852	4.85E-03	9.86E-03	9.86E-03	7.86E-04	7.86E-04	4.43E-04	4.43E-04
806	587743.4	4154598	0.004769	4.77E-03	9.69E-03	9.69E-03	7.72E-04	7.72E-04	4.35E-04	4.35E-04
807	587734.2	4154600	0.004684	4.68E-03	9.52E-03	9.52E-03	7.59E-04	7.59E-04	4.28E-04	4.28E-04
808	587725	4154602	0.004596	4.60E-03	9.34E-03	9.34E-03	7.44E-04	7.44E-04	4.20E-04	4.20E-04
809	587706.5	4154606	0.004417	4.42E-03	8.98E-03	8.98E-03	7.15E-04	7.15E-04	4.03E-04	4.03E-04
810	587697.3	4154608	0.004326	4.33E-03	8.79E-03	8.79E-03	7.01E-04	7.01E-04	3.95E-04	3.95E-04
811	587688.1	4154610	0.004235	4.24E-03	8.61E-03	8.61E-03	6.86E-04	6.86E-04	3.87E-04	3.87E-04
812	587678.9	4154612	0.004142	4.14E-03	8.42E-03	8.42E-03	6.71E-04	6.71E-04	3.78E-04	3.78E-04
813	587669.6	4154613	0.004052	4.05E-03	8.24E-03	8.24E-03	6.56E-04	6.56E-04	3.70E-04	3.70E-04
814	587660.4	4154615	0.003967	3.97E-03	8.06E-03	8.06E-03	6.42E-04	6.42E-04	3.62E-04	3.62E-04
815	587651.2	4154617	0.003887	3.89E-03	7.90E-03	7.90E-03	6.30E-04	6.30E-04	3.55E-04	3.55E-04
816	587642	4154619	0.00381	3.81E-03	7.74E-03	7.74E-03	6.17E-04	6.17E-04	3.48E-04	3.48E-04
817	587623.5	4154623	0.003667	3.67E-03	7.45E-03	7.45E-03	5.94E-04	5.94E-04	3.35E-04	3.35E-04
818	587606.4	4154620	0.003714	3.71E-03	7.55E-03	7.55E-03	6.02E-04	6.02E-04	3.39E-04	3.39E-04
819	587598.6	4154614	0.003833	3.83E-03	7.79E-03	7.79E-03	6.21E-04	6.21E-04	3.50E-04	3.50E-04
820	587590.7	4154609	0.003956	3.96E-03	8.04E-03	8.04E-03	6.41E-04	6.41E-04	3.61E-04	3.61E-04
821	587567.1	4154594	0.004341	4.34E-03	8.82E-03	8.82E-03	7.03E-04	7.03E-04	3.96E-04	3.96E-04
822	587559.2	4154589	0.00447	4.47E-03	9.09E-03	9.09E-03	7.24E-04	7.24E-04	4.08E-04	4.08E-04
823	587551.3	4154584	0.004597	4.60E-03	9.34E-03	9.34E-03	7.45E-04	7.45E-04	4.20E-04	4.20E-04
824	587543.4	4154578	0.004719	4.72E-03	9.59E-03	9.59E-03	7.64E-04	7.64E-04	4.31E-04	4.31E-04
825	587771.1	4154593	0.00501	5.01E-03	1.02E-02	1.02E-02	8.11E-04	8.11E-04	4.57E-04	4.57E-04
826	587778.9	4154587	0.005228	5.23E-03	1.06E-02	1.06E-02	8.47E-04	8.47E-04	4.77E-04	4.77E-04
827	587786.8	4154582	0.005457	5.46E-03	1.11E-02	1.11E-02	8.84E-04	8.84E-04	4.98E-04	4.98E-04
828	587802.6	4154571	0.005947	5.95E-03	1.21E-02	1.21E-02	9.63E-04	9.63E-04	5.43E-04	5.43E-04
829	587810.4	4154566	0.006209	6.21E-03	1.26E-02	1.26E-02	1.01E-03	1.01E-03	5.67E-04	5.67E-04
830	587818.3	4154561	0.006483	6.48E-03	1.32E-02	1.32E-02	1.05E-03	1.05E-03	5.92E-04	5.92E-04
831	587826.2	4154555	0.006768	6.77E-03	1.38E-02	1.38E-02	1.10E-03	1.10E-03	6.18E-04	6.18E-04
832	587767.5	4154603	0.004624	4.62E-03	9.40E-03	9.40E-03	7.49E-04	7.49E-04	4.22E-04	4.22E-04
833	587758.4	4154605	0.004553	4.55E-03	9.25E-03	9.25E-03	7.37E-04	7.37E-04	4.16E-04	4.16E-04
834	587749.3	4154607	0.00448	4.48E-03	9.11E-03	9.11E-03	7.26E-04	7.26E-04	4.09E-04	4.09E-04
835	587740.2	4154608	0.004405	4.41E-03	8.95E-03	8.95E-03	7.13E-04	7.13E-04	4.02E-04	4.02E-04
836	587731	4154610	0.004328	4.33E-03	8.80E-03	8.80E-03	7.01E-04	7.01E-04	3.95E-04	3.95E-04
837	587712.8	4154614	0.004169	4.17E-03	8.47E-03	8.47E-03	6.75E-04	6.75E-04	3.81E-04	3.81E-04
838	587703.7	4154616	0.004088	4.09E-03	8.31E-03	8.31E-03	6.62E-04	6.62E-04	3.73E-04	3.73E-04
839	587694.5	4154618	0.004003	4.00E-03	8.14E-03	8.14E-03	6.48E-04	6.48E-04	3.65E-04	3.65E-04
840	587685.4	4154620	0.00392	3.92E-03	7.97E-03	7.97E-03	6.35E-04	6.35E-04	3.58E-04	3.58E-04
841	587676.3	4154622	0.00384	3.84E-03	7.81E-03	7.81E-03	6.22E-04	6.22E-04	3.51E-04	3.51E-04
842	587667.2	4154623	0.003763	3.76E-03	7.65E-03	7.65E-03	6.09E-04	6.09E-04	3.44E-04	3.44E-04
843	587658	4154625	0.003689	3.69E-03	7.50E-03	7.50E-03	5.97E-04	5.97E-04	3.37E-04	3.37E-04
844	587648.9	4154627	0.003618	3.62E-03	7.35E-03	7.35E-03	5.86E-04	5.86E-04	3.30E-04	3.30E-04
845	587621.6	4154633	0.003425	3.43E-03	6.96E-03	6.96E-03	5.55E-04	5.55E-04	3.13E-04	3.13E-04
846	587604.6	4154630	0.003469	3.47E-03	7.05E-03	7.05E-03	5.62E-04	5.62E-04	3.17E-04	3.17E-04
847	587596.8	4154624	0.003576	3.58E-03	7.27E-03	7.27E-03	5.79E-04	5.79E-04	3.27E-04	3.27E-04
848	587589.1	4154619	0.003686	3.69E-03	7.49E-03	7.49E-03	5.97E-04	5.97E-04	3.37E-04	3.37E-04
849	587581.3	4154614	0.0038	3.80E-03	7.72E-03	7.72E-03	6.15E-04	6.15E-04	3.47E-04	3.47E-04
850	587557.9	4154599	0.004152	4.15E-03	8.44E-03	8.44E-03	6.72E-04	6.72E-04	3.79E-04	3.79E-04
851	587550.1	4154594	0.004268	4.27E-03	8.68E-03	8.68E-03	6.91E-04	6.91E-04	3.90E-04	3.90E-04
852	587542.3	4154589	0.004381	4.38E-03	8.90E-03	8.90E-03	7.10E-04	7.10E-04	4.00E-04	4.00E-04
853	587534.5	4154584	0.00449	4.49E-03	9.13E-03	9.13E-03	7.27E-04	7.27E-04	4.10E-04	4.10E-04
854	587776.6	4154601	0.004692	4.69E-03	9.54E-03	9.54E-03	7.60E-04	7.60E-04	4.28E-04	4.28E-04
855	587784.5	4154596	0.004888	4.89E-03	9.94E-03	9.94E-03	7.92E-04	7.92E-04	4.46E-04	4.46E-04
856	587792.4	4154590	0.005093	5.09E-03	1.04E-02	1.04E-02	8.25E-04	8.25E-04	4.65E-04	4.65E-04
857	587808.2	4154580	0.00553	5.53E-03	1.12E-02	1.12E-02	8.96E-04	8.96E-04	5.05E-04	5.05E-04
858	587816	4154574	0.005763	5.76E-03	1.17E-02	1.17E-02	9.33E-04	9.33E-04	5.26E-04	5.26E-04
859	587823.9	4154569	0.006007	6.01E-03	1.22E-02	1.22E-02	9.73E-04	9.73E-04	5.48E-04	5.48E-04
860	587831.8	4154564	0.00626	6.26E-03	1.27E-02	1.27E-02	1.01E-03	1.01E-03	5.72E-04	5.72E-04
861	587773.2	4154611	0.004344	4.34E-03	8.83E-03	8.83E-03	7.04E-04	7.04E-04	3.97E-04	3.97E-04

862	587764.2	4154613	0.004281	4.28E-03	8.70E-03	8.70E-03	6.93E-04	6.93E-04	3.91E-04	3.91E-04
863	587755.1	4154615	0.004217	4.22E-03	8.57E-03	8.57E-03	6.83E-04	6.83E-04	3.85E-04	3.85E-04
864	587746.1	4154617	0.00415	4.15E-03	8.44E-03	8.44E-03	6.72E-04	6.72E-04	3.79E-04	3.79E-04
865	587737.1	4154618	0.004082	4.08E-03	8.30E-03	8.30E-03	6.61E-04	6.61E-04	3.73E-04	3.73E-04
866	587710	4154624	0.003868	3.87E-03	7.86E-03	7.86E-03	6.26E-04	6.26E-04	3.53E-04	3.53E-04
867	587700.9	4154626	0.00379	3.79E-03	7.70E-03	7.70E-03	6.14E-04	6.14E-04	3.46E-04	3.46E-04
868	587691.9	4154628	0.003713	3.71E-03	7.55E-03	7.55E-03	6.01E-04	6.01E-04	3.39E-04	3.39E-04
869	587682.8	4154630	0.003642	3.64E-03	7.40E-03	7.40E-03	5.90E-04	5.90E-04	3.33E-04	3.33E-04
870	587673.8	4154631	0.003573	3.57E-03	7.26E-03	7.26E-03	5.79E-04	5.79E-04	3.26E-04	3.26E-04
871	587664.8	4154633	0.003506	3.51E-03	7.13E-03	7.13E-03	5.68E-04	5.68E-04	3.20E-04	3.20E-04
872	587655.7	4154635	0.003441	3.44E-03	6.99E-03	6.99E-03	5.57E-04	5.57E-04	3.14E-04	3.14E-04
873	587628.6	4154641	0.003261	3.26E-03	6.63E-03	6.63E-03	5.28E-04	5.28E-04	2.98E-04	2.98E-04
874	587619.6	4154643	0.003207	3.21E-03	6.52E-03	6.52E-03	5.19E-04	5.19E-04	2.93E-04	2.93E-04
875	587602.8	4154639	0.003248	3.25E-03	6.60E-03	6.60E-03	5.26E-04	5.26E-04	2.97E-04	2.97E-04
876	587595.1	4154634	0.003344	3.34E-03	6.80E-03	6.80E-03	5.42E-04	5.42E-04	3.05E-04	3.05E-04
877	587587.4	4154629	0.003444	3.44E-03	7.00E-03	7.00E-03	5.58E-04	5.58E-04	3.14E-04	3.14E-04
878	587579.7	4154624	0.003547	3.55E-03	7.21E-03	7.21E-03	5.74E-04	5.74E-04	3.24E-04	3.24E-04
879	587572	4154619	0.003652	3.65E-03	7.42E-03	7.42E-03	5.91E-04	5.91E-04	3.33E-04	3.33E-04
880	587548.8	4154604	0.003973	3.97E-03	8.08E-03	8.08E-03	6.43E-04	6.43E-04	3.63E-04	3.63E-04
881	587541.1	4154599	0.004077	4.08E-03	8.29E-03	8.29E-03	6.60E-04	6.60E-04	3.72E-04	3.72E-04
882	587533.4	4154594	0.004179	4.18E-03	8.49E-03	8.49E-03	6.77E-04	6.77E-04	3.82E-04	3.82E-04
883	587525.7	4154589	0.004275	4.28E-03	8.69E-03	8.69E-03	6.92E-04	6.92E-04	3.90E-04	3.90E-04
884	587782.2	4154609	0.004403	4.40E-03	8.95E-03	8.95E-03	7.13E-04	7.13E-04	4.02E-04	4.02E-04
885	587790.1	4154604	0.00458	4.58E-03	9.31E-03	9.31E-03	7.42E-04	7.42E-04	4.18E-04	4.18E-04
886	587798	4154599	0.004764	4.76E-03	9.68E-03	9.68E-03	7.72E-04	7.72E-04	4.35E-04	4.35E-04
887	587813.8	4154588	0.005156	5.16E-03	1.05E-02	1.05E-02	8.35E-04	8.35E-04	4.71E-04	4.71E-04
888	587821.6	4154583	0.005365	5.37E-03	1.09E-02	1.09E-02	8.69E-04	8.69E-04	4.90E-04	4.90E-04
889	587829.5	4154577	0.005582	5.58E-03	1.13E-02	1.13E-02	9.04E-04	9.04E-04	5.10E-04	5.10E-04
890	587837.4	4154572	0.005808	5.81E-03	1.18E-02	1.18E-02	9.41E-04	9.41E-04	5.30E-04	5.30E-04
891	587778.9	4154619	0.004088	4.09E-03	8.31E-03	8.31E-03	6.62E-04	6.62E-04	3.73E-04	3.73E-04
892	587769.9	4154621	0.004033	4.03E-03	8.20E-03	8.20E-03	6.53E-04	6.53E-04	3.68E-04	3.68E-04
893	587761	4154623	0.003976	3.98E-03	8.08E-03	8.08E-03	6.44E-04	6.44E-04	3.63E-04	3.63E-04
894	587752	4154625	0.003917	3.92E-03	7.96E-03	7.96E-03	6.34E-04	6.34E-04	3.58E-04	3.58E-04
895	587743	4154627	0.003856	3.86E-03	7.84E-03	7.84E-03	6.25E-04	6.25E-04	3.52E-04	3.52E-04
896	587716.2	4154632	0.003665	3.67E-03	7.45E-03	7.45E-03	5.94E-04	5.94E-04	3.35E-04	3.35E-04
897	587707.2	4154634	0.003596	3.60E-03	7.31E-03	7.31E-03	5.82E-04	5.82E-04	3.28E-04	3.28E-04
898	587698.3	4154636	0.003527	3.53E-03	7.17E-03	7.17E-03	5.71E-04	5.71E-04	3.22E-04	3.22E-04
899	587689.3	4154638	0.00346	3.46E-03	7.03E-03	7.03E-03	5.60E-04	5.60E-04	3.16E-04	3.16E-04
900	587680.3	4154640	0.003397	3.40E-03	6.90E-03	6.90E-03	5.50E-04	5.50E-04	3.10E-04	3.10E-04
901	587671.4	4154641	0.003335	3.34E-03	6.78E-03	6.78E-03	5.40E-04	5.40E-04	3.05E-04	3.05E-04
902	587662.4	4154643	0.003275	3.28E-03	6.66E-03	6.66E-03	5.30E-04	5.30E-04	2.99E-04	2.99E-04
903	587635.6	4154649	0.003109	3.11E-03	6.32E-03	6.32E-03	5.04E-04	5.04E-04	2.84E-04	2.84E-04
904	587626.6	4154651	0.003058	3.06E-03	6.22E-03	6.22E-03	4.95E-04	4.95E-04	2.79E-04	2.79E-04
905	587617.6	4154652	0.00301	3.01E-03	6.12E-03	6.12E-03	4.87E-04	4.87E-04	2.75E-04	2.75E-04
906	587601	4154649	0.003048	3.05E-03	6.20E-03	6.20E-03	4.94E-04	4.94E-04	2.78E-04	2.78E-04
907	587593.4	4154644	0.003135	3.14E-03	6.37E-03	6.37E-03	5.08E-04	5.08E-04	2.86E-04	2.86E-04
908	587585.7	4154639	0.003226	3.23E-03	6.56E-03	6.56E-03	5.22E-04	5.22E-04	2.95E-04	2.95E-04
909	587578.1	4154634	0.003319	3.32E-03	6.75E-03	6.75E-03	5.38E-04	5.38E-04	3.03E-04	3.03E-04
910	587570.4	4154629	0.003415	3.42E-03	6.94E-03	6.94E-03	5.53E-04	5.53E-04	3.12E-04	3.12E-04
911	587562.8	4154624	0.003512	3.51E-03	7.14E-03	7.14E-03	5.69E-04	5.69E-04	3.21E-04	3.21E-04
912	587539.8	4154609	0.003804	3.80E-03	7.73E-03	7.73E-03	6.16E-04	6.16E-04	3.47E-04	3.47E-04
913	587532.2	4154604	0.003898	3.90E-03	7.92E-03	7.92E-03	6.31E-04	6.31E-04	3.56E-04	3.56E-04
914	587524.5	4154599	0.003989	3.99E-03	8.11E-03	8.11E-03	6.46E-04	6.46E-04	3.64E-04	3.64E-04
915	587516.9	4154594	0.004075	4.08E-03	8.28E-03	8.28E-03	6.60E-04	6.60E-04	3.72E-04	3.72E-04
916	587787.8	4154618	0.004141	4.14E-03	8.42E-03	8.42E-03	6.71E-04	6.71E-04	3.78E-04	3.78E-04
917	587795.7	4154612	0.004301	4.30E-03	8.74E-03	8.74E-03	6.97E-04	6.97E-04	3.93E-04	3.93E-04
918	587803.6	4154607	0.004467	4.47E-03	9.08E-03	9.08E-03	7.23E-04	7.23E-04	4.08E-04	4.08E-04
919	587819.3	4154596	0.004819	4.82E-03	9.80E-03	9.80E-03	7.80E-04	7.80E-04	4.40E-04	4.40E-04
920	587827.2	4154591	0.005007	5.01E-03	1.02E-02	1.02E-02	8.11E-04	8.11E-04	4.57E-04	4.57E-04
921	587835.1	4154586	0.005202	5.20E-03	1.06E-02	1.06E-02	8.42E-04	8.42E-04	4.75E-04	4.75E-04
922	587843	4154580	0.005405	5.41E-03	1.10E-02	1.10E-02	8.75E-04	8.75E-04	4.94E-04	4.94E-04
923	587784.5	4154628	0.003855	3.86E-03	7.84E-03	7.84E-03	6.24E-04	6.24E-04	3.52E-04	3.52E-04
924	587775.6	4154629	0.003805	3.81E-03	7.73E-03	7.73E-03	6.16E-04	6.16E-04	3.47E-04	3.47E-04
925	587766.8	4154631	0.003755	3.76E-03	7.63E-03	7.63E-03	6.08E-04	6.08E-04	3.43E-04	3.43E-04
926	587757.9	4154633	0.003702	3.70E-03	7.52E-03	7.52E-03	6.00E-04	6.00E-04	3.38E-04	3.38E-04
927	587722.3	4154640	0.003477	3.48E-03	7.07E-03	7.07E-03	5.63E-04	5.63E-04	3.17E-04	3.17E-04
928	587713.4	4154642	0.003415	3.42E-03	6.94E-03	6.94E-03	5.53E-04	5.53E-04	3.12E-04	3.12E-04
929	587704.6	4154644	0.003353	3.35E-03	6.82E-03	6.82E-03	5.43E-04	5.43E-04	3.06E-04	3.06E-04
930	587695.7	4154646	0.003292	3.29E-03	6.69E-03	6.69E-03	5.33E-04	5.33E-04	3.01E-04	3.01E-04
931	587686.8	4154648	0.003234	3.23E-03	6.57E-03	6.57E-03	5.24E-04	5.24E-04	2.95E-04	2.95E-04
932	587677.9	4154650	0.003177	3.18E-03	6.46E-03	6.46E-03	5.15E-04	5.15E-04	2.90E-04	2.90E-04
933	587669	4154651	0.003121	3.12E-03	6.34E-03	6.34E-03	5.05E-04	5.05E-04	2.85E-04	2.85E-04

934	587660.1	4154653	0.003068	3.07E-03	6.24E-03	6.24E-03	4.97E-04	4.97E-04	2.80E-04	2.80E-04
935	587642.4	4154657	0.002966	2.97E-03	6.03E-03	6.03E-03	4.80E-04	4.80E-04	2.71E-04	2.71E-04
936	587633.5	4154659	0.002919	2.92E-03	5.93E-03	5.93E-03	4.73E-04	4.73E-04	2.67E-04	2.67E-04
937	587624.6	4154660	0.002874	2.87E-03	5.84E-03	5.84E-03	4.65E-04	4.65E-04	2.62E-04	2.62E-04
938	587615.7	4154662	0.00283	2.83E-03	5.75E-03	5.75E-03	4.58E-04	4.58E-04	2.58E-04	2.58E-04
939	587599.2	4154659	0.002866	2.87E-03	5.83E-03	5.83E-03	4.64E-04	4.64E-04	2.62E-04	2.62E-04
940	587584	4154649	0.003028	3.03E-03	6.15E-03	6.15E-03	4.90E-04	4.90E-04	2.76E-04	2.76E-04
941	587576.4	4154644	0.003113	3.11E-03	6.33E-03	6.33E-03	5.04E-04	5.04E-04	2.84E-04	2.84E-04
942	587568.9	4154639	0.0032	3.20E-03	6.50E-03	6.50E-03	5.18E-04	5.18E-04	2.92E-04	2.92E-04
943	587561.3	4154634	0.003289	3.29E-03	6.69E-03	6.69E-03	5.33E-04	5.33E-04	3.00E-04	3.00E-04
944	587553.7	4154629	0.003378	3.38E-03	6.87E-03	6.87E-03	5.47E-04	5.47E-04	3.08E-04	3.08E-04
945	587523.3	4154609	0.003729	3.73E-03	7.58E-03	7.58E-03	6.04E-04	6.04E-04	3.40E-04	3.40E-04
946	587515.7	4154604	0.003811	3.81E-03	7.75E-03	7.75E-03	6.17E-04	6.17E-04	3.48E-04	3.48E-04
947	587508.1	4154600	0.003888	3.89E-03	7.90E-03	7.90E-03	6.30E-04	6.30E-04	3.55E-04	3.55E-04
948	587793.4	4154626	0.003902	3.90E-03	7.93E-03	7.93E-03	6.32E-04	6.32E-04	3.56E-04	3.56E-04
949	587801.3	4154621	0.004047	4.05E-03	8.23E-03	8.23E-03	6.55E-04	6.55E-04	3.70E-04	3.70E-04
950	587809.2	4154615	0.004197	4.20E-03	8.53E-03	8.53E-03	6.80E-04	6.80E-04	3.83E-04	3.83E-04
951	587824.9	4154605	0.004515	4.52E-03	9.18E-03	9.18E-03	7.31E-04	7.31E-04	4.12E-04	4.12E-04
952	587832.8	4154599	0.004684	4.68E-03	9.52E-03	9.52E-03	7.59E-04	7.59E-04	4.28E-04	4.28E-04
953	587840.7	4154594	0.00486	4.86E-03	9.88E-03	9.88E-03	7.87E-04	7.87E-04	4.44E-04	4.44E-04
954	587848.6	4154589	0.005042	5.04E-03	1.02E-02	1.02E-02	8.17E-04	8.17E-04	4.60E-04	4.60E-04
955	587789.8	4154636	0.003639	3.64E-03	7.40E-03	7.40E-03	5.89E-04	5.89E-04	3.32E-04	3.32E-04
956	587780.5	4154638	0.003593	3.59E-03	7.30E-03	7.30E-03	5.82E-04	5.82E-04	3.28E-04	3.28E-04
957	587771.3	4154640	0.003545	3.55E-03	7.21E-03	7.21E-03	5.74E-04	5.74E-04	3.24E-04	3.24E-04
958	587762	4154642	0.003495	3.50E-03	7.10E-03	7.10E-03	5.66E-04	5.66E-04	3.19E-04	3.19E-04
959	587725.1	4154649	0.003279	3.28E-03	6.66E-03	6.66E-03	5.31E-04	5.31E-04	2.99E-04	2.99E-04
960	587715.8	4154651	0.00322	3.22E-03	6.55E-03	6.55E-03	5.22E-04	5.22E-04	2.94E-04	2.94E-04
961	587706.6	4154653	0.003163	3.16E-03	6.43E-03	6.43E-03	5.12E-04	5.12E-04	2.89E-04	2.89E-04
962	587697.3	4154655	0.003107	3.11E-03	6.32E-03	6.32E-03	5.03E-04	5.03E-04	2.84E-04	2.84E-04
963	587688.1	4154657	0.003052	3.05E-03	6.20E-03	6.20E-03	4.94E-04	4.94E-04	2.79E-04	2.79E-04
964	587678.9	4154659	0.002998	3.00E-03	6.09E-03	6.09E-03	4.86E-04	4.86E-04	2.74E-04	2.74E-04
965	587669.6	4154661	0.002945	2.95E-03	5.99E-03	5.99E-03	4.77E-04	4.77E-04	2.69E-04	2.69E-04
966	587651.1	4154664	0.002844	2.84E-03	5.78E-03	5.78E-03	4.61E-04	4.61E-04	2.60E-04	2.60E-04
967	587641.9	4154666	0.002797	2.80E-03	5.69E-03	5.69E-03	4.53E-04	4.53E-04	2.55E-04	2.55E-04
968	587632.7	4154668	0.002752	2.75E-03	5.59E-03	5.59E-03	4.46E-04	4.46E-04	2.51E-04	2.51E-04
969	587623.4	4154670	0.002709	2.71E-03	5.51E-03	5.51E-03	4.39E-04	4.39E-04	2.47E-04	2.47E-04
970	587614.2	4154672	0.002669	2.67E-03	5.43E-03	5.43E-03	4.32E-04	4.32E-04	2.44E-04	2.44E-04
971	587597	4154669	0.002704	2.70E-03	5.50E-03	5.50E-03	4.38E-04	4.38E-04	2.47E-04	2.47E-04
972	587589.1	4154664	0.00278	2.78E-03	5.65E-03	5.65E-03	4.50E-04	4.50E-04	2.54E-04	2.54E-04
973	587581.3	4154658	0.002859	2.86E-03	5.81E-03	5.81E-03	4.63E-04	4.63E-04	2.61E-04	2.61E-04
974	587573.4	4154653	0.002941	2.94E-03	5.98E-03	5.98E-03	4.76E-04	4.76E-04	2.69E-04	2.69E-04
975	587565.5	4154648	0.003025	3.03E-03	6.15E-03	6.15E-03	4.90E-04	4.90E-04	2.76E-04	2.76E-04
976	587526	4154622	0.003453	3.45E-03	7.02E-03	7.02E-03	5.59E-04	5.59E-04	3.15E-04	3.15E-04
977	587518.1	4154617	0.003535	3.54E-03	7.19E-03	7.19E-03	5.73E-04	5.73E-04	3.23E-04	3.23E-04
978	587510.2	4154612	0.003613	3.61E-03	7.34E-03	7.34E-03	5.85E-04	5.85E-04	3.30E-04	3.30E-04
979	587502.3	4154607	0.003687	3.69E-03	7.49E-03	7.49E-03	5.97E-04	5.97E-04	3.37E-04	3.37E-04
980	587799	4154634	0.003683	3.68E-03	7.49E-03	7.49E-03	5.96E-04	5.96E-04	3.36E-04	3.36E-04
981	587806.9	4154629	0.003815	3.82E-03	7.75E-03	7.75E-03	6.18E-04	6.18E-04	3.48E-04	3.48E-04
982	587814.8	4154623	0.003951	3.95E-03	8.03E-03	8.03E-03	6.40E-04	6.40E-04	3.61E-04	3.61E-04
983	587830.5	4154613	0.00424	4.24E-03	8.62E-03	8.62E-03	6.87E-04	6.87E-04	3.87E-04	3.87E-04
984	587838.4	4154608	0.004393	4.39E-03	8.93E-03	8.93E-03	7.11E-04	7.11E-04	4.01E-04	4.01E-04
985	587846.3	4154602	0.004551	4.55E-03	9.25E-03	9.25E-03	7.37E-04	7.37E-04	4.16E-04	4.16E-04
986	587854.2	4154597	0.004716	4.72E-03	9.59E-03	9.59E-03	7.64E-04	7.64E-04	4.31E-04	4.31E-04
987	587869.9	4154586	0.005063	5.06E-03	1.03E-02	1.03E-02	8.20E-04	8.20E-04	4.62E-04	4.62E-04
988	587795.4	4154644	0.003443	3.44E-03	7.00E-03	7.00E-03	5.58E-04	5.58E-04	3.14E-04	3.14E-04
989	587786.3	4154646	0.003402	3.40E-03	6.91E-03	6.91E-03	5.51E-04	5.51E-04	3.11E-04	3.11E-04
990	587777.1	4154648	0.003359	3.36E-03	6.83E-03	6.83E-03	5.44E-04	5.44E-04	3.07E-04	3.07E-04
991	587768	4154650	0.003315	3.32E-03	6.74E-03	6.74E-03	5.37E-04	5.37E-04	3.03E-04	3.03E-04
992	587758.8	4154652	0.003269	3.27E-03	6.64E-03	6.64E-03	5.29E-04	5.29E-04	2.98E-04	2.98E-04
993	587731.3	4154657	0.003119	3.12E-03	6.34E-03	6.34E-03	5.05E-04	5.05E-04	2.85E-04	2.85E-04
994	587722.1	4154659	0.003065	3.07E-03	6.23E-03	6.23E-03	4.96E-04	4.96E-04	2.80E-04	2.80E-04
995	587713	4154661	0.003014	3.01E-03	6.13E-03	6.13E-03	4.88E-04	4.88E-04	2.75E-04	2.75E-04
996	587703.8	4154663	0.002964	2.96E-03	6.02E-03	6.02E-03	4.80E-04	4.80E-04	2.71E-04	2.71E-04
997	587694.7	4154665	0.002913	2.91E-03	5.92E-03	5.92E-03	4.72E-04	4.72E-04	2.66E-04	2.66E-04
998	587685.5	4154667	0.002864	2.86E-03	5.82E-03	5.82E-03	4.64E-04	4.64E-04	2.61E-04	2.61E-04
999	587676.3	4154669	0.002815	2.82E-03	5.72E-03	5.72E-03	4.56E-04	4.56E-04	2.57E-04	2.57E-04
1000	587648.9	4154674	0.002677	2.68E-03	5.44E-03	5.44E-03	4.34E-04	4.34E-04	2.44E-04	2.44E-04
1001	587639.7	4154676	0.002634	2.63E-03	5.35E-03	5.35E-03	4.27E-04	4.27E-04	2.40E-04	2.40E-04
1002	587630.5	4154678	0.002594	2.59E-03	5.27E-03	5.27E-03	4.20E-04	4.20E-04	2.37E-04	2.37E-04
1003	587621.4	4154680	0.002556	2.56E-03	5.20E-03	5.20E-03	4.14E-04	4.14E-04	2.33E-04	2.33E-04
1004	587612.2	4154682	0.00252	2.52E-03	5.12E-03	5.12E-03	4.08E-04	4.08E-04	2.30E-04	2.30E-04
1005	587595.2	4154679	0.002552	2.55E-03	5.19E-03	5.19E-03	4.13E-04	4.13E-04	2.33E-04	2.33E-04

1006	587587.4	4154673	0.002622	2.62E-03	5.33E-03	5.33E-03	4.25E-04	4.25E-04	2.39E-04	2.39E-04
1007	587579.6	4154668	0.002694	2.69E-03	5.48E-03	5.48E-03	4.36E-04	4.36E-04	2.46E-04	2.46E-04
1008	587571.8	4154663	0.002769	2.77E-03	5.63E-03	5.63E-03	4.48E-04	4.48E-04	2.53E-04	2.53E-04
1009	587517	4154627	0.003317	3.32E-03	6.74E-03	6.74E-03	5.37E-04	5.37E-04	3.03E-04	3.03E-04
1010	587509.2	4154622	0.003391	3.39E-03	6.89E-03	6.89E-03	5.49E-04	5.49E-04	3.10E-04	3.10E-04
1011	587501.3	4154617	0.003461	3.46E-03	7.03E-03	7.03E-03	5.61E-04	5.61E-04	3.16E-04	3.16E-04
1012	587493.5	4154612	0.003527	3.53E-03	7.17E-03	7.17E-03	5.71E-04	5.71E-04	3.22E-04	3.22E-04
1013	587804.6	4154642	0.003482	3.48E-03	7.08E-03	7.08E-03	5.64E-04	5.64E-04	3.18E-04	3.18E-04
1014	587812.5	4154637	0.003602	3.60E-03	7.32E-03	7.32E-03	5.83E-04	5.83E-04	3.29E-04	3.29E-04
1015	587820.4	4154632	0.003727	3.73E-03	7.58E-03	7.58E-03	6.04E-04	6.04E-04	3.40E-04	3.40E-04
1016	587836.1	4154621	0.003989	3.99E-03	8.11E-03	8.11E-03	6.46E-04	6.46E-04	3.64E-04	3.64E-04
1017	587844	4154616	0.004128	4.13E-03	8.39E-03	8.39E-03	6.69E-04	6.69E-04	3.77E-04	3.77E-04
1018	587851.9	4154611	0.004272	4.27E-03	8.68E-03	8.68E-03	6.92E-04	6.92E-04	3.90E-04	3.90E-04
1019	587859.7	4154605	0.004421	4.42E-03	8.99E-03	8.99E-03	7.16E-04	7.16E-04	4.04E-04	4.04E-04
1020	587875.5	4154595	0.004736	4.74E-03	9.63E-03	9.63E-03	7.67E-04	7.67E-04	4.32E-04	4.32E-04
1021	587801.1	4154653	0.003262	3.26E-03	6.63E-03	6.63E-03	5.28E-04	5.28E-04	2.98E-04	2.98E-04
1022	587792	4154654	0.003225	3.23E-03	6.56E-03	6.56E-03	5.22E-04	5.22E-04	2.94E-04	2.94E-04
1023	587782.9	4154656	0.003187	3.19E-03	6.48E-03	6.48E-03	5.16E-04	5.16E-04	2.91E-04	2.91E-04
1024	587773.8	4154658	0.003147	3.15E-03	6.40E-03	6.40E-03	5.10E-04	5.10E-04	2.87E-04	2.87E-04
1025	587764.8	4154660	0.003106	3.11E-03	6.31E-03	6.31E-03	5.03E-04	5.03E-04	2.84E-04	2.84E-04
1026	587755.7	4154662	0.003064	3.06E-03	6.23E-03	6.23E-03	4.96E-04	4.96E-04	2.80E-04	2.80E-04
1027	587746.6	4154664	0.00302	3.02E-03	6.14E-03	6.14E-03	4.89E-04	4.89E-04	2.76E-04	2.76E-04
1028	587737.5	4154666	0.002973	2.97E-03	6.04E-03	6.04E-03	4.81E-04	4.81E-04	2.71E-04	2.71E-04
1029	587728.4	4154667	0.002924	2.92E-03	5.94E-03	5.94E-03	4.74E-04	4.74E-04	2.67E-04	2.67E-04
1030	587719.3	4154669	0.002877	2.88E-03	5.85E-03	5.85E-03	4.66E-04	4.66E-04	2.63E-04	2.63E-04
1031	587710.2	4154671	0.00283	2.83E-03	5.75E-03	5.75E-03	4.58E-04	4.58E-04	2.58E-04	2.58E-04
1032	587701.1	4154673	0.002784	2.78E-03	5.66E-03	5.66E-03	4.51E-04	4.51E-04	2.54E-04	2.54E-04
1033	587692.1	4154675	0.002739	2.74E-03	5.57E-03	5.57E-03	4.44E-04	4.44E-04	2.50E-04	2.50E-04
1034	587655.7	4154682	0.002564	2.56E-03	5.21E-03	5.21E-03	4.15E-04	4.15E-04	2.34E-04	2.34E-04
1035	587646.6	4154684	0.002524	2.52E-03	5.13E-03	5.13E-03	4.09E-04	4.09E-04	2.30E-04	2.30E-04
1036	587637.5	4154686	0.002486	2.49E-03	5.05E-03	5.05E-03	4.03E-04	4.03E-04	2.27E-04	2.27E-04
1037	587628.4	4154688	0.00245	2.45E-03	4.98E-03	4.98E-03	3.97E-04	3.97E-04	2.24E-04	2.24E-04
1038	587619.4	4154690	0.002415	2.42E-03	4.91E-03	4.91E-03	3.91E-04	3.91E-04	2.21E-04	2.21E-04
1039	587610.3	4154692	0.002383	2.38E-03	4.84E-03	4.84E-03	3.86E-04	3.86E-04	2.18E-04	2.18E-04
1040	587593.4	4154688	0.002413	2.41E-03	4.90E-03	4.90E-03	3.91E-04	3.91E-04	2.20E-04	2.20E-04
1041	587585.7	4154683	0.002477	2.48E-03	5.03E-03	5.03E-03	4.01E-04	4.01E-04	2.26E-04	2.26E-04
1042	587554.6	4154663	0.002755	2.76E-03	5.60E-03	5.60E-03	4.46E-04	4.46E-04	2.52E-04	2.52E-04
1043	587546.9	4154658	0.002828	2.83E-03	5.75E-03	5.75E-03	4.58E-04	4.58E-04	2.58E-04	2.58E-04
1044	587539.1	4154653	0.002901	2.90E-03	5.90E-03	5.90E-03	4.70E-04	4.70E-04	2.65E-04	2.65E-04
1045	587531.3	4154648	0.002974	2.97E-03	6.04E-03	6.04E-03	4.82E-04	4.82E-04	2.72E-04	2.72E-04
1046	587508	4154633	0.003188	3.19E-03	6.48E-03	6.48E-03	5.16E-04	5.16E-04	2.91E-04	2.91E-04
1047	587500.3	4154628	0.003254	3.25E-03	6.61E-03	6.61E-03	5.27E-04	5.27E-04	2.97E-04	2.97E-04
1048	587492.5	4154622	0.003318	3.32E-03	6.74E-03	6.74E-03	5.37E-04	5.37E-04	3.03E-04	3.03E-04
1049	587484.8	4154617	0.003377	3.38E-03	6.86E-03	6.86E-03	5.47E-04	5.47E-04	3.08E-04	3.08E-04
1050	587810.2	4154651	0.003298	3.30E-03	6.70E-03	6.70E-03	5.34E-04	5.34E-04	3.01E-04	3.01E-04
1051	587818.1	4154645	0.003408	3.41E-03	6.93E-03	6.93E-03	5.52E-04	5.52E-04	3.11E-04	3.11E-04
1052	587825.9	4154640	0.003521	3.52E-03	7.16E-03	7.16E-03	5.70E-04	5.70E-04	3.21E-04	3.21E-04
1053	587841.7	4154629	0.003761	3.76E-03	7.64E-03	7.64E-03	6.09E-04	6.09E-04	3.43E-04	3.43E-04
1054	587849.6	4154624	0.003887	3.89E-03	7.90E-03	7.90E-03	6.30E-04	6.30E-04	3.55E-04	3.55E-04
1055	587857.5	4154619	0.004018	4.02E-03	8.17E-03	8.17E-03	6.51E-04	6.51E-04	3.67E-04	3.67E-04
1056	587865.3	4154614	0.004154	4.15E-03	8.44E-03	8.44E-03	6.73E-04	6.73E-04	3.79E-04	3.79E-04
1057	587881.1	4154603	0.00444	4.44E-03	9.02E-03	9.02E-03	7.19E-04	7.19E-04	4.05E-04	4.05E-04
1058	587806.8	4154661	0.003096	3.10E-03	6.29E-03	6.29E-03	5.01E-04	5.01E-04	2.83E-04	2.83E-04
1059	587797.7	4154663	0.003063	3.06E-03	6.23E-03	6.23E-03	4.96E-04	4.96E-04	2.80E-04	2.80E-04
1060	587788.7	4154665	0.003028	3.03E-03	6.15E-03	6.15E-03	4.90E-04	4.90E-04	2.76E-04	2.76E-04
1061	587779.7	4154666	0.002992	2.99E-03	6.08E-03	6.08E-03	4.85E-04	4.85E-04	2.73E-04	2.73E-04
1062	587770.7	4154668	0.002955	2.96E-03	6.01E-03	6.01E-03	4.79E-04	4.79E-04	2.70E-04	2.70E-04
1063	587761.7	4154670	0.002917	2.92E-03	5.93E-03	5.93E-03	4.72E-04	4.72E-04	2.66E-04	2.66E-04
1064	587752.6	4154672	0.002878	2.88E-03	5.85E-03	5.85E-03	4.66E-04	4.66E-04	2.63E-04	2.63E-04
1065	587743.6	4154674	0.002834	2.83E-03	5.76E-03	5.76E-03	4.59E-04	4.59E-04	2.59E-04	2.59E-04
1066	587734.6	4154676	0.002791	2.79E-03	5.67E-03	5.67E-03	4.52E-04	4.52E-04	2.55E-04	2.55E-04
1067	587725.6	4154677	0.002748	2.75E-03	5.59E-03	5.59E-03	4.45E-04	4.45E-04	2.51E-04	2.51E-04
1068	587716.6	4154679	0.002706	2.71E-03	5.50E-03	5.50E-03	4.38E-04	4.38E-04	2.47E-04	2.47E-04
1069	587707.5	4154681	0.002663	2.66E-03	5.41E-03	5.41E-03	4.31E-04	4.31E-04	2.43E-04	2.43E-04
1070	587698.5	4154683	0.002621	2.62E-03	5.33E-03	5.33E-03	4.24E-04	4.24E-04	2.39E-04	2.39E-04
1071	587689.5	4154685	0.002579	2.58E-03	5.24E-03	5.24E-03	4.18E-04	4.18E-04	2.35E-04	2.35E-04
1072	587653.4	4154692	0.002421	2.42E-03	4.92E-03	4.92E-03	3.92E-04	3.92E-04	2.21E-04	2.21E-04
1073	587644.4	4154694	0.002385	2.39E-03	4.85E-03	4.85E-03	3.86E-04	3.86E-04	2.18E-04	2.18E-04
1074	587635.4	4154696	0.00235	2.35E-03	4.78E-03	4.78E-03	3.81E-04	3.81E-04	2.15E-04	2.15E-04
1075	587626.4	4154698	0.002317	2.32E-03	4.71E-03	4.71E-03	3.75E-04	3.75E-04	2.12E-04	2.12E-04
1076	587617.3	4154700	0.002286	2.29E-03	4.65E-03	4.65E-03	3.70E-04	3.70E-04	2.09E-04	2.09E-04
1077	587608.3	4154702	0.002257	2.26E-03	4.59E-03	4.59E-03	3.66E-04	3.66E-04	2.06E-04	2.06E-04

1078	587591.6	4154698	0.002285	2.29E-03	4.64E-03	4.64E-03	3.70E-04	3.70E-04	2.09E-04	2.09E-04
1079	587560.8	4154678	0.002533	2.53E-03	5.15E-03	5.15E-03	4.10E-04	4.10E-04	2.31E-04	2.31E-04
1080	587553.1	4154673	0.0026	2.60E-03	5.28E-03	5.28E-03	4.21E-04	4.21E-04	2.37E-04	2.37E-04
1081	587545.4	4154668	0.002667	2.67E-03	5.42E-03	5.42E-03	4.32E-04	4.32E-04	2.44E-04	2.44E-04
1082	587537.7	4154663	0.002735	2.74E-03	5.56E-03	5.56E-03	4.43E-04	4.43E-04	2.50E-04	2.50E-04
1083	587530	4154658	0.002803	2.80E-03	5.70E-03	5.70E-03	4.54E-04	4.54E-04	2.56E-04	2.56E-04
1084	587522.3	4154653	0.00287	2.87E-03	5.83E-03	5.83E-03	4.65E-04	4.65E-04	2.62E-04	2.62E-04
1085	587499.2	4154638	0.003065	3.07E-03	6.23E-03	6.23E-03	4.96E-04	4.96E-04	2.80E-04	2.80E-04
1086	587491.5	4154633	0.003125	3.13E-03	6.35E-03	6.35E-03	5.06E-04	5.06E-04	2.85E-04	2.85E-04
1087	587483.7	4154628	0.003183	3.18E-03	6.47E-03	6.47E-03	5.16E-04	5.16E-04	2.91E-04	2.91E-04
1088	587476	4154623	0.003236	3.24E-03	6.58E-03	6.58E-03	5.24E-04	5.24E-04	2.95E-04	2.95E-04
1089	587815.8	4154659	0.003128	3.13E-03	6.36E-03	6.36E-03	5.07E-04	5.07E-04	2.86E-04	2.86E-04
1090	587823.7	4154654	0.003229	3.23E-03	6.56E-03	6.56E-03	5.23E-04	5.23E-04	2.95E-04	2.95E-04
1091	587831.5	4154648	0.003333	3.33E-03	6.77E-03	6.77E-03	5.40E-04	5.40E-04	3.04E-04	3.04E-04
1092	587847.3	4154638	0.003552	3.55E-03	7.22E-03	7.22E-03	5.75E-04	5.75E-04	3.24E-04	3.24E-04
1093	587855.2	4154632	0.003667	3.67E-03	7.45E-03	7.45E-03	5.94E-04	5.94E-04	3.35E-04	3.35E-04
1094	587863	4154627	0.003787	3.79E-03	7.70E-03	7.70E-03	6.13E-04	6.13E-04	3.46E-04	3.46E-04
1095	587870.9	4154622	0.003911	3.91E-03	7.95E-03	7.95E-03	6.33E-04	6.33E-04	3.57E-04	3.57E-04
1096	587886.7	4154611	0.004171	4.17E-03	8.48E-03	8.48E-03	6.76E-04	6.76E-04	3.81E-04	3.81E-04
1097	587812.4	4154669	0.002942	2.94E-03	5.98E-03	5.98E-03	4.76E-04	4.76E-04	2.69E-04	2.69E-04
1098	587803.4	4154671	0.002912	2.91E-03	5.92E-03	5.92E-03	4.72E-04	4.72E-04	2.66E-04	2.66E-04
1099	587794.5	4154673	0.002881	2.88E-03	5.86E-03	5.86E-03	4.67E-04	4.67E-04	2.63E-04	2.63E-04
1100	587785.5	4154675	0.002848	2.85E-03	5.79E-03	5.79E-03	4.61E-04	4.61E-04	2.60E-04	2.60E-04
1101	587776.6	4154676	0.002815	2.82E-03	5.72E-03	5.72E-03	4.56E-04	4.56E-04	2.57E-04	2.57E-04
1102	587767.6	4154678	0.002781	2.78E-03	5.65E-03	5.65E-03	4.50E-04	4.50E-04	2.54E-04	2.54E-04
1103	587758.7	4154680	0.002743	2.74E-03	5.58E-03	5.58E-03	4.44E-04	4.44E-04	2.50E-04	2.50E-04
1104	587749.7	4154682	0.002703	2.70E-03	5.49E-03	5.49E-03	4.38E-04	4.38E-04	2.47E-04	2.47E-04
1105	587740.7	4154684	0.002665	2.67E-03	5.42E-03	5.42E-03	4.32E-04	4.32E-04	2.43E-04	2.43E-04
1106	587731.8	4154686	0.002627	2.63E-03	5.34E-03	5.34E-03	4.25E-04	4.25E-04	2.40E-04	2.40E-04
1107	587722.8	4154687	0.002588	2.59E-03	5.26E-03	5.26E-03	4.19E-04	4.19E-04	2.36E-04	2.36E-04
1108	587713.9	4154689	0.00255	2.55E-03	5.18E-03	5.18E-03	4.13E-04	4.13E-04	2.33E-04	2.33E-04
1109	587704.9	4154691	0.002511	2.51E-03	5.10E-03	5.10E-03	4.07E-04	4.07E-04	2.29E-04	2.29E-04
1110	587696	4154693	0.002472	2.47E-03	5.02E-03	5.02E-03	4.00E-04	4.00E-04	2.26E-04	2.26E-04
1111	587687	4154695	0.002434	2.43E-03	4.95E-03	4.95E-03	3.94E-04	3.94E-04	2.22E-04	2.22E-04
1112	587660.1	4154700	0.002324	2.32E-03	4.72E-03	4.72E-03	3.76E-04	3.76E-04	2.12E-04	2.12E-04
1113	587651.2	4154702	0.00229	2.29E-03	4.65E-03	4.65E-03	3.71E-04	3.71E-04	2.09E-04	2.09E-04
1114	587642.2	4154704	0.002257	2.26E-03	4.59E-03	4.59E-03	3.66E-04	3.66E-04	2.06E-04	2.06E-04
1115	587633.3	4154706	0.002226	2.23E-03	4.52E-03	4.52E-03	3.61E-04	3.61E-04	2.03E-04	2.03E-04
1116	587624.3	4154708	0.002196	2.20E-03	4.46E-03	4.46E-03	3.56E-04	3.56E-04	2.01E-04	2.01E-04
1117	587615.3	4154710	0.002168	2.17E-03	4.41E-03	4.41E-03	3.51E-04	3.51E-04	1.98E-04	1.98E-04
1118	587606.4	4154711	0.002141	2.14E-03	4.35E-03	4.35E-03	3.47E-04	3.47E-04	1.95E-04	1.95E-04
1119	587574.5	4154698	0.002278	2.28E-03	4.63E-03	4.63E-03	3.69E-04	3.69E-04	2.08E-04	2.08E-04
1120	587566.8	4154693	0.002337	2.34E-03	4.75E-03	4.75E-03	3.78E-04	3.78E-04	2.13E-04	2.13E-04
1121	587559.2	4154688	0.002397	2.40E-03	4.87E-03	4.87E-03	3.88E-04	3.88E-04	2.19E-04	2.19E-04
1122	587551.5	4154683	0.002458	2.46E-03	5.00E-03	5.00E-03	3.98E-04	3.98E-04	2.24E-04	2.24E-04
1123	587543.9	4154678	0.00252	2.52E-03	5.12E-03	5.12E-03	4.08E-04	4.08E-04	2.30E-04	2.30E-04
1124	587536.2	4154673	0.002583	2.58E-03	5.25E-03	5.25E-03	4.18E-04	4.18E-04	2.36E-04	2.36E-04
1125	587528.6	4154668	0.002646	2.65E-03	5.38E-03	5.38E-03	4.29E-04	4.29E-04	2.42E-04	2.42E-04
1126	587520.9	4154663	0.002709	2.71E-03	5.51E-03	5.51E-03	4.39E-04	4.39E-04	2.47E-04	2.47E-04
1127	587513.3	4154658	0.002771	2.77E-03	5.63E-03	5.63E-03	4.49E-04	4.49E-04	2.53E-04	2.53E-04
1128	587490.3	4154643	0.002948	2.95E-03	5.99E-03	5.99E-03	4.77E-04	4.77E-04	2.69E-04	2.69E-04
1129	587482.7	4154638	0.003003	3.00E-03	6.10E-03	6.10E-03	4.86E-04	4.86E-04	2.74E-04	2.74E-04
1130	587475	4154633	0.003055	3.06E-03	6.21E-03	6.21E-03	4.95E-04	4.95E-04	2.79E-04	2.79E-04
1131	587467.4	4154628	0.003103	3.10E-03	6.31E-03	6.31E-03	5.03E-04	5.03E-04	2.83E-04	2.83E-04
1132	587821.4	4154667	0.002971	2.97E-03	6.04E-03	6.04E-03	4.81E-04	4.81E-04	2.71E-04	2.71E-04
1133	587829.2	4154662	0.003064	3.06E-03	6.23E-03	6.23E-03	4.96E-04	4.96E-04	2.80E-04	2.80E-04
1134	587837.1	4154657	0.003159	3.16E-03	6.42E-03	6.42E-03	5.12E-04	5.12E-04	2.88E-04	2.88E-04
1135	587852.9	4154646	0.003361	3.36E-03	6.83E-03	6.83E-03	5.44E-04	5.44E-04	3.07E-04	3.07E-04
1136	587860.8	4154641	0.003466	3.47E-03	7.05E-03	7.05E-03	5.61E-04	5.61E-04	3.16E-04	3.16E-04
1137	587868.6	4154635	0.003576	3.58E-03	7.27E-03	7.27E-03	5.79E-04	5.79E-04	3.27E-04	3.27E-04
1138	587876.5	4154630	0.003689	3.69E-03	7.50E-03	7.50E-03	5.97E-04	5.97E-04	3.37E-04	3.37E-04
1139	587892.3	4154619	0.003926	3.93E-03	7.98E-03	7.98E-03	6.36E-04	6.36E-04	3.58E-04	3.58E-04
1140	587817.7	4154677	0.002798	2.80E-03	5.69E-03	5.69E-03	4.53E-04	4.53E-04	2.55E-04	2.55E-04
1141	587808.4	4154679	0.00277	2.77E-03	5.63E-03	5.63E-03	4.49E-04	4.49E-04	2.53E-04	2.53E-04
1142	587799.2	4154681	0.00274	2.74E-03	5.57E-03	5.57E-03	4.44E-04	4.44E-04	2.50E-04	2.50E-04
1143	587789.9	4154683	0.00271	2.71E-03	5.51E-03	5.51E-03	4.39E-04	4.39E-04	2.47E-04	2.47E-04
1144	587780.7	4154685	0.002678	2.68E-03	5.44E-03	5.44E-03	4.34E-04	4.34E-04	2.45E-04	2.45E-04
1145	587771.4	4154687	0.002646	2.65E-03	5.38E-03	5.38E-03	4.29E-04	4.29E-04	2.42E-04	2.42E-04
1146	587762.2	4154689	0.002609	2.61E-03	5.30E-03	5.30E-03	4.23E-04	4.23E-04	2.38E-04	2.38E-04
1147	587752.9	4154691	0.002571	2.57E-03	5.23E-03	5.23E-03	4.16E-04	4.16E-04	2.35E-04	2.35E-04
1148	587743.7	4154693	0.002535	2.54E-03	5.15E-03	5.15E-03	4.11E-04	4.11E-04	2.31E-04	2.31E-04
1149	587734.4	4154695	0.0025	2.50E-03	5.08E-03	5.08E-03	4.05E-04	4.05E-04	2.28E-04	2.28E-04

1150	587725.1	4154696	0.002463	2.46E-03	5.01E-03	5.01E-03	3.99E-04	3.99E-04	2.25E-04	2.25E-04
1151	587715.9	4154698	0.002426	2.43E-03	4.93E-03	4.93E-03	3.93E-04	3.93E-04	2.22E-04	2.22E-04
1152	587706.6	4154700	0.002389	2.39E-03	4.86E-03	4.86E-03	3.87E-04	3.87E-04	2.18E-04	2.18E-04
1153	587697.4	4154702	0.002352	2.35E-03	4.78E-03	4.78E-03	3.81E-04	3.81E-04	2.15E-04	2.15E-04
1154	587688.1	4154704	0.002315	2.32E-03	4.71E-03	4.71E-03	3.75E-04	3.75E-04	2.11E-04	2.11E-04
1155	587678.9	4154706	0.002279	2.28E-03	4.63E-03	4.63E-03	3.69E-04	3.69E-04	2.08E-04	2.08E-04
1156	587669.6	4154708	0.002244	2.24E-03	4.56E-03	4.56E-03	3.63E-04	3.63E-04	2.05E-04	2.05E-04
1157	587660.3	4154710	0.00221	2.21E-03	4.49E-03	4.49E-03	3.58E-04	3.58E-04	2.02E-04	2.02E-04
1158	587651.1	4154712	0.002177	2.18E-03	4.42E-03	4.42E-03	3.53E-04	3.53E-04	1.99E-04	1.99E-04
1159	587641.8	4154714	0.002145	2.15E-03	4.36E-03	4.36E-03	3.47E-04	3.47E-04	1.96E-04	1.96E-04
1160	587632.6	4154715	0.002116	2.12E-03	4.30E-03	4.30E-03	3.43E-04	3.43E-04	1.93E-04	1.93E-04
1161	587623.3	4154717	0.002087	2.09E-03	4.24E-03	4.24E-03	3.38E-04	3.38E-04	1.91E-04	1.91E-04
1162	587614.1	4154719	0.00206	2.06E-03	4.19E-03	4.19E-03	3.34E-04	3.34E-04	1.88E-04	1.88E-04
1163	587587.7	4154718	0.002061	2.06E-03	4.19E-03	4.19E-03	3.34E-04	3.34E-04	1.88E-04	1.88E-04
1164	587579.7	4154713	0.002114	2.11E-03	4.30E-03	4.30E-03	3.42E-04	3.42E-04	1.93E-04	1.93E-04
1165	587571.8	4154707	0.002168	2.17E-03	4.41E-03	4.41E-03	3.51E-04	3.51E-04	1.98E-04	1.98E-04
1166	587563.9	4154702	0.002224	2.22E-03	4.52E-03	4.52E-03	3.60E-04	3.60E-04	2.03E-04	2.03E-04
1167	587556	4154697	0.002282	2.28E-03	4.64E-03	4.64E-03	3.70E-04	3.70E-04	2.08E-04	2.08E-04
1168	587548.1	4154692	0.002341	2.34E-03	4.76E-03	4.76E-03	3.79E-04	3.79E-04	2.14E-04	2.14E-04
1169	587540.2	4154687	0.002401	2.40E-03	4.88E-03	4.88E-03	3.89E-04	3.89E-04	2.19E-04	2.19E-04
1170	587532.3	4154682	0.002462	2.46E-03	5.00E-03	5.00E-03	3.99E-04	3.99E-04	2.25E-04	2.25E-04
1171	587524.4	4154676	0.002523	2.52E-03	5.13E-03	5.13E-03	4.09E-04	4.09E-04	2.30E-04	2.30E-04
1172	587516.5	4154671	0.002584	2.58E-03	5.25E-03	5.25E-03	4.18E-04	4.18E-04	2.36E-04	2.36E-04
1173	587508.6	4154666	0.002644	2.64E-03	5.37E-03	5.37E-03	4.28E-04	4.28E-04	2.41E-04	2.41E-04
1174	587484.9	4154651	0.002815	2.82E-03	5.72E-03	5.72E-03	4.56E-04	4.56E-04	2.57E-04	2.57E-04
1175	587477	4154645	0.002868	2.87E-03	5.83E-03	5.83E-03	4.64E-04	4.64E-04	2.62E-04	2.62E-04
1176	587469.1	4154640	0.002918	2.92E-03	5.93E-03	5.93E-03	4.73E-04	4.73E-04	2.66E-04	2.66E-04
1177	587461.2	4154635	0.002965	2.97E-03	6.03E-03	6.03E-03	4.80E-04	4.80E-04	2.71E-04	2.71E-04
1178	587827	4154676	0.002826	2.83E-03	5.74E-03	5.74E-03	4.58E-04	4.58E-04	2.58E-04	2.58E-04
1179	587834.8	4154670	0.002911	2.91E-03	5.92E-03	5.92E-03	4.71E-04	4.71E-04	2.66E-04	2.66E-04
1180	587842.7	4154665	0.002999	3.00E-03	6.10E-03	6.10E-03	4.86E-04	4.86E-04	2.74E-04	2.74E-04
1181	587858.5	4154654	0.003184	3.18E-03	6.47E-03	6.47E-03	5.16E-04	5.16E-04	2.91E-04	2.91E-04
1182	587866.3	4154649	0.003281	3.28E-03	6.67E-03	6.67E-03	5.31E-04	5.31E-04	3.00E-04	3.00E-04
1183	587874.2	4154644	0.003382	3.38E-03	6.87E-03	6.87E-03	5.48E-04	5.48E-04	3.09E-04	3.09E-04
1184	587882.1	4154638	0.003485	3.49E-03	7.08E-03	7.08E-03	5.64E-04	5.64E-04	3.18E-04	3.18E-04
1185	587897.9	4154628	0.003703	3.70E-03	7.53E-03	7.53E-03	6.00E-04	6.00E-04	3.38E-04	3.38E-04
1186	587771.8	4154423	0.04492	4.49E-02	9.13E-02	9.13E-02	7.28E-03	7.28E-03	4.10E-03	4.10E-03
1187	587779.5	4154418	0.04721	4.72E-02	9.60E-02	9.60E-02	7.65E-03	7.65E-03	4.31E-03	4.31E-03
1188	587787.2	4154413	0.04921	4.92E-02	1.00E-01	1.00E-01	7.97E-03	7.97E-03	4.49E-03	4.49E-03
1189	587794.9	4154407	0.0509	5.09E-02	1.03E-01	1.03E-01	8.24E-03	8.24E-03	4.65E-03	4.65E-03
1190	587802.6	4154402	0.05225	5.23E-02	1.06E-01	1.06E-01	8.46E-03	8.46E-03	4.77E-03	4.77E-03
1191	587810.3	4154397	0.05324	5.32E-02	1.08E-01	1.08E-01	8.62E-03	8.62E-03	4.86E-03	4.86E-03
1192	587818	4154392	0.05383	5.38E-02	1.09E-01	1.09E-01	8.72E-03	8.72E-03	4.91E-03	4.91E-03
1193	587777.4	4154432	0.0373	3.73E-02	7.58E-02	7.58E-02	6.04E-03	6.04E-03	3.41E-03	3.41E-03
1194	587785.1	4154426	0.03926	3.93E-02	7.98E-02	7.98E-02	6.36E-03	6.36E-03	3.58E-03	3.58E-03
1195	587792.8	4154421	0.04102	4.10E-02	8.34E-02	8.34E-02	6.64E-03	6.64E-03	3.75E-03	3.75E-03
1196	587800.5	4154416	0.04256	4.26E-02	8.65E-02	8.65E-02	6.89E-03	6.89E-03	3.89E-03	3.89E-03
1197	587808.2	4154410	0.04384	4.38E-02	8.91E-02	8.91E-02	7.10E-03	7.10E-03	4.00E-03	4.00E-03
1198	587815.9	4154405	0.04484	4.48E-02	9.11E-02	9.11E-02	7.26E-03	7.26E-03	4.09E-03	4.09E-03
1199	587823.6	4154400	0.04555	4.56E-02	9.26E-02	9.26E-02	7.38E-03	7.38E-03	4.16E-03	4.16E-03
1200	587783.1	4154440	0.03141	3.14E-02	6.38E-02	6.38E-02	5.09E-03	5.09E-03	2.87E-03	2.87E-03
1201	587790.8	4154435	0.03308	3.31E-02	6.72E-02	6.72E-02	5.36E-03	5.36E-03	3.02E-03	3.02E-03
1202	587798.5	4154429	0.03462	3.46E-02	7.04E-02	7.04E-02	5.61E-03	5.61E-03	3.16E-03	3.16E-03
1203	587806.2	4154424	0.03599	3.60E-02	7.32E-02	7.32E-02	5.83E-03	5.83E-03	3.29E-03	3.29E-03
1204	587813.9	4154419	0.03718	3.72E-02	7.56E-02	7.56E-02	6.02E-03	6.02E-03	3.39E-03	3.39E-03
1205	587821.6	4154413	0.03816	3.82E-02	7.76E-02	7.76E-02	6.18E-03	6.18E-03	3.48E-03	3.48E-03
1206	587829.3	4154408	0.03891	3.89E-02	7.91E-02	7.91E-02	6.30E-03	6.30E-03	3.55E-03	3.55E-03
1207	587788.7	4154448	0.02677	2.68E-02	5.44E-02	5.44E-02	4.34E-03	4.34E-03	2.44E-03	2.44E-03
1208	587796.4	4154443	0.0282	2.82E-02	5.73E-02	5.73E-02	4.57E-03	4.57E-03	2.57E-03	2.57E-03
1209	587804.1	4154438	0.02954	2.95E-02	6.00E-02	6.00E-02	4.78E-03	4.78E-03	2.70E-03	2.70E-03
1210	587794.3	4154456	0.02307	2.31E-02	4.69E-02	4.69E-02	3.74E-03	3.74E-03	2.11E-03	2.11E-03
1211	587802	4154451	0.02429	2.43E-02	4.94E-02	4.94E-02	3.93E-03	3.93E-03	2.22E-03	2.22E-03
1212	587809.7	4154446	0.02545	2.55E-02	5.17E-02	5.17E-02	4.12E-03	4.12E-03	2.32E-03	2.32E-03
1213	587800	4154465	0.02007	2.01E-02	4.08E-02	4.08E-02	3.25E-03	3.25E-03	1.83E-03	1.83E-03
1214	587807.7	4154459	0.02112	2.11E-02	4.29E-02	4.29E-02	3.42E-03	3.42E-03	1.93E-03	1.93E-03
1215	587815.4	4154454	0.02213	2.21E-02	4.50E-02	4.50E-02	3.58E-03	3.58E-03	2.02E-03	2.02E-03
1216	587838.5	4154438	0.02475	2.48E-02	5.03E-02	5.03E-02	4.01E-03	4.01E-03	2.26E-03	2.26E-03
1217	587846.2	4154433	0.02544	2.54E-02	5.17E-02	5.17E-02	4.12E-03	4.12E-03	2.32E-03	2.32E-03
1218	587805.6	4154473	0.01761	1.76E-02	3.58E-02	3.58E-02	2.85E-03	2.85E-03	1.61E-03	1.61E-03
1219	587813.3	4154468	0.01851	1.85E-02	3.76E-02	3.76E-02	3.00E-03	3.00E-03	1.69E-03	1.69E-03
1220	587821	4154462	0.0194	1.94E-02	3.94E-02	3.94E-02	3.14E-03	3.14E-03	1.77E-03	1.77E-03
1221	587844.1	4154447	0.02174	2.17E-02	4.42E-02	4.42E-02	3.52E-03	3.52E-03	1.98E-03	1.98E-03

1222	587851.8	4154441	0.02238	2.24E-02	4.55E-02	4.55E-02	3.62E-03	3.62E-03	2.04E-03	2.04E-03
1223	587811.3	4154481	0.01557	1.56E-02	3.16E-02	3.16E-02	2.52E-03	2.52E-03	1.42E-03	1.42E-03
1224	587819	4154476	0.01635	1.64E-02	3.32E-02	3.32E-02	2.65E-03	2.65E-03	1.49E-03	1.49E-03
1225	587826.7	4154471	0.01712	1.71E-02	3.48E-02	3.48E-02	2.77E-03	2.77E-03	1.56E-03	1.56E-03
1226	587849.8	4154455	0.01922	1.92E-02	3.91E-02	3.91E-02	3.11E-03	3.11E-03	1.75E-03	1.75E-03
1227	587857.5	4154450	0.01981	1.98E-02	4.03E-02	4.03E-02	3.21E-03	3.21E-03	1.81E-03	1.81E-03
1228	587816.9	4154489	0.01386	1.39E-02	2.82E-02	2.82E-02	2.24E-03	2.24E-03	1.27E-03	1.27E-03
1229	587824.6	4154484	0.01454	1.45E-02	2.96E-02	2.96E-02	2.35E-03	2.35E-03	1.33E-03	1.33E-03
1230	587832.3	4154479	0.01522	1.52E-02	3.09E-02	3.09E-02	2.46E-03	2.46E-03	1.39E-03	1.39E-03
1231	587855.4	4154463	0.01709	1.71E-02	3.47E-02	3.47E-02	2.77E-03	2.77E-03	1.56E-03	1.56E-03
1232	587863.1	4154458	0.01763	1.76E-02	3.58E-02	3.58E-02	2.86E-03	2.86E-03	1.61E-03	1.61E-03
1233	587822.5	4154498	0.01242	1.24E-02	2.52E-02	2.52E-02	2.01E-03	2.01E-03	1.13E-03	1.13E-03
1234	587830.2	4154492	0.01301	1.30E-02	2.64E-02	2.64E-02	2.11E-03	2.11E-03	1.19E-03	1.19E-03
1235	587837.9	4154487	0.0136	1.36E-02	2.76E-02	2.76E-02	2.20E-03	2.20E-03	1.24E-03	1.24E-03
1236	587861	4154471	0.01528	1.53E-02	3.11E-02	3.11E-02	2.47E-03	2.47E-03	1.40E-03	1.40E-03
1237	587868.7	4154466	0.01577	1.58E-02	3.21E-02	3.21E-02	2.55E-03	2.55E-03	1.44E-03	1.44E-03
1238	587828.2	4154506	0.01119	1.12E-02	2.27E-02	2.27E-02	1.81E-03	1.81E-03	1.02E-03	1.02E-03
1239	587835.9	4154501	0.01171	1.17E-02	2.38E-02	2.38E-02	1.90E-03	1.90E-03	1.07E-03	1.07E-03
1240	587843.6	4154495	0.01223	1.22E-02	2.49E-02	2.49E-02	1.98E-03	1.98E-03	1.12E-03	1.12E-03
1241	587866.7	4154480	0.01373	1.37E-02	2.79E-02	2.79E-02	2.22E-03	2.22E-03	1.25E-03	1.25E-03
1242	587874.4	4154474	0.01418	1.42E-02	2.88E-02	2.88E-02	2.30E-03	2.30E-03	1.29E-03	1.29E-03
1243	587833.8	4154514	0.01013	1.01E-02	2.06E-02	2.06E-02	1.64E-03	1.64E-03	9.25E-04	9.25E-04
1244	587841.5	4154509	0.01059	1.06E-02	2.15E-02	2.15E-02	1.72E-03	1.72E-03	9.67E-04	9.67E-04
1245	587849.2	4154504	0.01105	1.11E-02	2.25E-02	2.25E-02	1.79E-03	1.79E-03	1.01E-03	1.01E-03
1246	587872.3	4154488	0.01239	1.24E-02	2.52E-02	2.52E-02	2.01E-03	2.01E-03	1.13E-03	1.13E-03
1247	587880	4154483	0.0128	1.28E-02	2.60E-02	2.60E-02	2.07E-03	2.07E-03	1.17E-03	1.17E-03
1248	587839.5	4154522	0.009217	9.22E-03	1.87E-02	1.87E-02	1.49E-03	1.49E-03	8.42E-04	8.42E-04
1249	587847.2	4154517	0.009623	9.62E-03	1.96E-02	1.96E-02	1.56E-03	1.56E-03	8.79E-04	8.79E-04
1250	587854.9	4154512	0.01003	1.00E-02	2.04E-02	2.04E-02	1.62E-03	1.62E-03	9.16E-04	9.16E-04
1251	587878	4154496	0.01123	1.12E-02	2.28E-02	2.28E-02	1.82E-03	1.82E-03	1.03E-03	1.03E-03
1252	587885.7	4154491	0.01161	1.16E-02	2.36E-02	2.36E-02	1.88E-03	1.88E-03	1.06E-03	1.06E-03
1253	587845.1	4154531	0.008423	8.42E-03	1.71E-02	1.71E-02	1.36E-03	1.36E-03	7.69E-04	7.69E-04
1254	587852.8	4154525	0.008782	8.78E-03	1.79E-02	1.79E-02	1.42E-03	1.42E-03	8.02E-04	8.02E-04
1255	587860.5	4154520	0.009145	9.15E-03	1.86E-02	1.86E-02	1.48E-03	1.48E-03	8.35E-04	8.35E-04
1256	587883.6	4154504	0.01022	1.02E-02	2.08E-02	2.08E-02	1.66E-03	1.66E-03	9.33E-04	9.33E-04
1257	587891.3	4154499	0.01057	1.06E-02	2.15E-02	2.15E-02	1.71E-03	1.71E-03	9.65E-04	9.65E-04
1258	587850.7	4154539	0.007727	7.73E-03	1.57E-02	1.57E-02	1.25E-03	1.25E-03	7.06E-04	7.06E-04
1259	587858.4	4154534	0.008046	8.05E-03	1.64E-02	1.64E-02	1.30E-03	1.30E-03	7.35E-04	7.35E-04
1260	587866.1	4154528	0.008371	8.37E-03	1.70E-02	1.70E-02	1.36E-03	1.36E-03	7.64E-04	7.64E-04
1261	587889.2	4154513	0.009342	9.34E-03	1.90E-02	1.90E-02	1.51E-03	1.51E-03	8.53E-04	8.53E-04
1262	587897	4154507	0.009654	9.65E-03	1.96E-02	1.96E-02	1.56E-03	1.56E-03	8.81E-04	8.81E-04
1263	587856.4	4154547	0.007115	7.12E-03	1.45E-02	1.45E-02	1.15E-03	1.15E-03	6.50E-04	6.50E-04
1264	587864.1	4154542	0.0074	7.40E-03	1.50E-02	1.50E-02	1.20E-03	1.20E-03	6.76E-04	6.76E-04
1265	587871.8	4154537	0.00769	7.69E-03	1.56E-02	1.56E-02	1.25E-03	1.25E-03	7.02E-04	7.02E-04
1266	587894.9	4154521	0.008565	8.57E-03	1.74E-02	1.74E-02	1.39E-03	1.39E-03	7.82E-04	7.82E-04
1267	587902.6	4154516	0.00885	8.85E-03	1.80E-02	1.80E-02	1.43E-03	1.43E-03	8.08E-04	8.08E-04
1268	587862	4154555	0.006573	6.57E-03	1.34E-02	1.34E-02	1.06E-03	1.06E-03	6.00E-04	6.00E-04
1269	587869.7	4154550	0.006829	6.83E-03	1.39E-02	1.39E-02	1.11E-03	1.11E-03	6.24E-04	6.24E-04
1270	587877.4	4154545	0.007089	7.09E-03	1.44E-02	1.44E-02	1.15E-03	1.15E-03	6.47E-04	6.47E-04
1271	587900.5	4154529	0.00788	7.88E-03	1.60E-02	1.60E-02	1.28E-03	1.28E-03	7.19E-04	7.19E-04
1272	587908.2	4154524	0.00814	8.14E-03	1.65E-02	1.65E-02	1.32E-03	1.32E-03	7.43E-04	7.43E-04
1273	587867.7	4154564	0.006091	6.09E-03	1.24E-02	1.24E-02	9.86E-04	9.86E-04	5.56E-04	5.56E-04
1274	587875.4	4154558	0.006321	6.32E-03	1.28E-02	1.28E-02	1.02E-03	1.02E-03	5.77E-04	5.77E-04
1275	587883.1	4154553	0.006555	6.56E-03	1.33E-02	1.33E-02	1.06E-03	1.06E-03	5.99E-04	5.99E-04
1276	587906.2	4154537	0.007272	7.27E-03	1.48E-02	1.48E-02	1.18E-03	1.18E-03	6.64E-04	6.64E-04
1277	587913.9	4154532	0.007508	7.51E-03	1.53E-02	1.53E-02	1.22E-03	1.22E-03	6.86E-04	6.86E-04
1278	587873.3	4154572	0.005661	5.66E-03	1.15E-02	1.15E-02	9.17E-04	9.17E-04	5.17E-04	5.17E-04
1279	587881	4154567	0.005868	5.87E-03	1.19E-02	1.19E-02	9.50E-04	9.50E-04	5.36E-04	5.36E-04
1280	587888.7	4154561	0.00608	6.08E-03	1.24E-02	1.24E-02	9.85E-04	9.85E-04	5.55E-04	5.55E-04
1281	587911.8	4154546	0.006729	6.73E-03	1.37E-02	1.37E-02	1.09E-03	1.09E-03	6.14E-04	6.14E-04
1282	587919.5	4154540	0.006946	6.95E-03	1.41E-02	1.41E-02	1.12E-03	1.12E-03	6.34E-04	6.34E-04
1283	587878.9	4154580	0.005276	5.28E-03	1.07E-02	1.07E-02	8.54E-04	8.54E-04	4.82E-04	4.82E-04
1284	587886.6	4154575	0.005463	5.46E-03	1.11E-02	1.11E-02	8.85E-04	8.85E-04	4.99E-04	4.99E-04
1285	587894.3	4154570	0.005655	5.66E-03	1.15E-02	1.15E-02	9.16E-04	9.16E-04	5.16E-04	5.16E-04
1286	587917.5	4154554	0.006245	6.25E-03	1.27E-02	1.27E-02	1.01E-03	1.01E-03	5.70E-04	5.70E-04
1287	587925.2	4154549	0.006443	6.44E-03	1.31E-02	1.31E-02	1.04E-03	1.04E-03	5.88E-04	5.88E-04
1288	587884.6	4154588	0.00493	4.93E-03	1.00E-02	1.00E-02	7.98E-04	7.98E-04	4.50E-04	4.50E-04
1289	587892.3	4154583	0.005099	5.10E-03	1.04E-02	1.04E-02	8.26E-04	8.26E-04	4.66E-04	4.66E-04
1290	587900	4154578	0.005273	5.27E-03	1.07E-02	1.07E-02	8.54E-04	8.54E-04	4.81E-04	4.81E-04
1291	587923.1	4154562	0.00581	5.81E-03	1.18E-02	1.18E-02	9.41E-04	9.41E-04	5.30E-04	5.30E-04
1292	587930.8	4154557	0.005991	5.99E-03	1.22E-02	1.22E-02	9.70E-04	9.70E-04	5.47E-04	5.47E-04
1293	587890.2	4154597	0.004616	4.62E-03	9.38E-03	9.38E-03	7.48E-04	7.48E-04	4.21E-04	4.21E-04

1294	587897.9	4154591	0.00477	4.77E-03	9.70E-03	9.70E-03	7.73E-04	7.73E-04	4.36E-04	4.36E-04
1295	587905.6	4154586	0.004928	4.93E-03	1.00E-02	1.00E-02	7.98E-04	7.98E-04	4.50E-04	4.50E-04
1296	587928.7	4154570	0.005419	5.42E-03	1.10E-02	1.10E-02	8.78E-04	8.78E-04	4.95E-04	4.95E-04
1297	587936.4	4154565	0.005585	5.59E-03	1.14E-02	1.14E-02	9.05E-04	9.05E-04	5.10E-04	5.10E-04
1298	587895.9	4154605	0.004333	4.33E-03	8.81E-03	8.81E-03	7.02E-04	7.02E-04	3.96E-04	3.96E-04
1299	587903.6	4154600	0.004473	4.47E-03	9.09E-03	9.09E-03	7.24E-04	7.24E-04	4.08E-04	4.08E-04
1300	587911.3	4154594	0.004617	4.62E-03	9.38E-03	9.38E-03	7.48E-04	7.48E-04	4.22E-04	4.22E-04
1301	587934.4	4154579	0.005065	5.07E-03	1.03E-02	1.03E-02	8.20E-04	8.20E-04	4.62E-04	4.62E-04
1302	587942.1	4154573	0.005218	5.22E-03	1.06E-02	1.06E-02	8.45E-04	8.45E-04	4.76E-04	4.76E-04
1303	587901.5	4154613	0.004075	4.08E-03	8.28E-03	8.28E-03	6.60E-04	6.60E-04	3.72E-04	3.72E-04
1304	587909.2	4154608	0.004203	4.20E-03	8.54E-03	8.54E-03	6.81E-04	6.81E-04	3.84E-04	3.84E-04
1305	587916.9	4154603	0.004335	4.34E-03	8.81E-03	8.81E-03	7.02E-04	7.02E-04	3.96E-04	3.96E-04
1306	587940	4154587	0.004745	4.75E-03	9.64E-03	9.64E-03	7.68E-04	7.68E-04	4.33E-04	4.33E-04
1307	587947.7	4154582	0.004885	4.89E-03	9.93E-03	9.93E-03	7.91E-04	7.91E-04	4.46E-04	4.46E-04
1308	587907.1	4154621	0.00384	3.84E-03	7.81E-03	7.81E-03	6.22E-04	6.22E-04	3.51E-04	3.51E-04
1309	587914.8	4154616	0.003957	3.96E-03	8.04E-03	8.04E-03	6.41E-04	6.41E-04	3.61E-04	3.61E-04
1310	587922.5	4154611	0.004078	4.08E-03	8.29E-03	8.29E-03	6.60E-04	6.60E-04	3.72E-04	3.72E-04
1311	587945.7	4154595	0.004454	4.45E-03	9.05E-03	9.05E-03	7.21E-04	7.21E-04	4.07E-04	4.07E-04
1312	587953.4	4154590	0.004584	4.58E-03	9.32E-03	9.32E-03	7.42E-04	7.42E-04	4.19E-04	4.19E-04
1313	587842.6	4154372	0.05482	5.48E-02	1.11E-01	1.11E-01	8.88E-03	8.88E-03	5.01E-03	5.01E-03
1314	587833.1	4154386	0.05082	5.08E-02	1.03E-01	1.03E-01	8.23E-03	8.23E-03	4.64E-03	4.64E-03
1315	587861.9	4154359	0.05015	5.02E-02	1.02E-01	1.02E-01	8.12E-03	8.12E-03	4.58E-03	4.58E-03
1316	587852.6	4154373	0.0486	4.86E-02	9.88E-02	9.88E-02	7.87E-03	7.87E-03	4.44E-03	4.44E-03
1317	587843.3	4154387	0.04549	4.55E-02	9.25E-02	9.25E-02	7.37E-03	7.37E-03	4.15E-03	4.15E-03
1318	587874.7	4154345	0.04826	4.83E-02	9.81E-02	9.81E-02	7.82E-03	7.82E-03	4.41E-03	4.41E-03
1319	587871.2	4154362	0.04463	4.46E-02	9.07E-02	9.07E-02	7.23E-03	7.23E-03	4.07E-03	4.07E-03
1320	587866	4154370	0.044	4.40E-02	8.94E-02	8.94E-02	7.13E-03	7.13E-03	4.02E-03	4.02E-03
1321	587860.8	4154378	0.04301	4.30E-02	8.74E-02	8.74E-02	6.97E-03	6.97E-03	3.93E-03	3.93E-03
1322	587855.6	4154385	0.04166	4.17E-02	8.47E-02	8.47E-02	6.75E-03	6.75E-03	3.80E-03	3.80E-03
1323	587850.5	4154393	0.03994	3.99E-02	8.12E-02	8.12E-02	6.47E-03	6.47E-03	3.65E-03	3.65E-03
1324	587845.3	4154401	0.03796	3.80E-02	7.72E-02	7.72E-02	6.15E-03	6.15E-03	3.47E-03	3.47E-03
1325	587840.1	4154409	0.03579	3.58E-02	7.27E-02	7.27E-02	5.80E-03	5.80E-03	3.27E-03	3.27E-03
1326	587884.6	4154347	0.04312	4.31E-02	8.76E-02	8.76E-02	6.98E-03	6.98E-03	3.94E-03	3.94E-03
1327	587881.1	4154364	0.04003	4.00E-02	8.14E-02	8.14E-02	6.48E-03	6.48E-03	3.65E-03	3.65E-03
1328	587876	4154372	0.03951	3.95E-02	8.03E-02	8.03E-02	6.40E-03	6.40E-03	3.61E-03	3.61E-03
1329	587871	4154379	0.03867	3.87E-02	7.86E-02	7.86E-02	6.26E-03	6.26E-03	3.53E-03	3.53E-03
1330	587865.9	4154387	0.03759	3.76E-02	7.64E-02	7.64E-02	6.09E-03	6.09E-03	3.43E-03	3.43E-03
1331	587860.8	4154394	0.03629	3.63E-02	7.38E-02	7.38E-02	5.88E-03	5.88E-03	3.31E-03	3.31E-03
1332	587894.4	4154350	0.03879	3.88E-02	7.88E-02	7.88E-02	6.28E-03	6.28E-03	3.54E-03	3.54E-03
1333	587891	4154366	0.03614	3.61E-02	7.35E-02	7.35E-02	5.85E-03	5.85E-03	3.30E-03	3.30E-03
1334	587886	4154373	0.0357	3.57E-02	7.26E-02	7.26E-02	5.78E-03	5.78E-03	3.26E-03	3.26E-03
1335	587902.7	4154343	0.03715	3.72E-02	7.55E-02	7.55E-02	6.02E-03	6.02E-03	3.39E-03	3.39E-03
1336	587900.8	4154368	0.0328	3.28E-02	6.67E-02	6.67E-02	5.31E-03	5.31E-03	2.99E-03	2.99E-03
1337	587871.4	4154412	0.02796	2.80E-02	5.68E-02	5.68E-02	4.53E-03	4.53E-03	2.55E-03	2.55E-03
1338	587861.6	4154427	0.02526	2.53E-02	5.13E-02	5.13E-02	4.09E-03	4.09E-03	2.31E-03	2.31E-03
1339	587837.9	4154184	0.03108	3.11E-02	6.32E-02	6.32E-02	5.03E-03	5.03E-03	2.84E-03	2.84E-03
1340	587912.2	4154344	0.03401	3.40E-02	6.91E-02	6.91E-02	5.51E-03	5.51E-03	3.11E-03	3.11E-03
1341	587913.9	4154353	0.03207	3.21E-02	6.52E-02	6.52E-02	5.19E-03	5.19E-03	2.93E-03	2.93E-03
1342	587910.3	4154370	0.02988	2.99E-02	6.07E-02	6.07E-02	4.84E-03	4.84E-03	2.73E-03	2.73E-03
1343	587905	4154378	0.02951	2.95E-02	6.00E-02	6.00E-02	4.78E-03	4.78E-03	2.69E-03	2.69E-03
1344	587883.9	4154410	0.02632	2.63E-02	5.35E-02	5.35E-02	4.26E-03	4.26E-03	2.40E-03	2.40E-03
1345	587878.6	4154418	0.02514	2.51E-02	5.11E-02	5.11E-02	4.07E-03	4.07E-03	2.30E-03	2.30E-03
1346	587873.3	4154426	0.02388	2.39E-02	4.85E-02	4.85E-02	3.87E-03	3.87E-03	2.18E-03	2.18E-03
1347	587868	4154434	0.02255	2.26E-02	4.58E-02	4.58E-02	3.65E-03	3.65E-03	2.06E-03	2.06E-03
1348	587862.7	4154442	0.02118	2.12E-02	4.31E-02	4.31E-02	3.43E-03	3.43E-03	1.93E-03	1.93E-03
1349	587851.4	4154186	0.03056	3.06E-02	6.21E-02	6.21E-02	4.95E-03	4.95E-03	2.79E-03	2.79E-03
1350	587846.4	4154178	0.02871	2.87E-02	5.84E-02	5.84E-02	4.65E-03	4.65E-03	2.62E-03	2.62E-03
1351	587920.1	4154372	0.02737	2.74E-02	5.56E-02	5.56E-02	4.43E-03	4.43E-03	2.50E-03	2.50E-03
1352	587915	4154380	0.02705	2.71E-02	5.50E-02	5.50E-02	4.38E-03	4.38E-03	2.47E-03	2.47E-03
1353	587909.8	4154388	0.02657	2.66E-02	5.40E-02	5.40E-02	4.30E-03	4.30E-03	2.43E-03	2.43E-03
1354	587904.6	4154396	0.02594	2.59E-02	5.27E-02	5.27E-02	4.20E-03	4.20E-03	2.37E-03	2.37E-03
1355	587894.2	4154411	0.02433	2.43E-02	4.95E-02	4.95E-02	3.94E-03	3.94E-03	2.22E-03	2.22E-03
1356	587889	4154419	0.02339	2.34E-02	4.75E-02	4.75E-02	3.79E-03	3.79E-03	2.14E-03	2.14E-03
1357	587883.8	4154427	0.02232	2.23E-02	4.54E-02	4.54E-02	3.61E-03	3.61E-03	2.04E-03	2.04E-03
1358	587878.7	4154434	0.02119	2.12E-02	4.31E-02	4.31E-02	3.43E-03	3.43E-03	1.93E-03	1.93E-03
1359	587873.5	4154442	0.02001	2.00E-02	4.07E-02	4.07E-02	3.24E-03	3.24E-03	1.83E-03	1.83E-03
1360	587868.3	4154450	0.01882	1.88E-02	3.83E-02	3.83E-02	3.05E-03	3.05E-03	1.72E-03	1.72E-03
1361	587875.2	4154206	0.03283	3.28E-02	6.67E-02	6.67E-02	5.32E-03	5.32E-03	3.00E-03	3.00E-03
1362	587870.1	4154197	0.03139	3.14E-02	6.38E-02	6.38E-02	5.08E-03	5.08E-03	2.87E-03	2.87E-03
1363	587854.8	4154173	0.02664	2.66E-02	5.41E-02	5.41E-02	4.31E-03	4.31E-03	2.43E-03	2.43E-03
1364	587930	4154374	0.02517	2.52E-02	5.12E-02	5.12E-02	4.08E-03	4.08E-03	2.30E-03	2.30E-03
1365	587924.9	4154382	0.02489	2.49E-02	5.06E-02	5.06E-02	4.03E-03	4.03E-03	2.27E-03	2.27E-03

1366	587919.8	4154390	0.02448	2.45E-02	4.98E-02	4.98E-02	3.96E-03	3.96E-03	2.24E-03	2.24E-03
1367	587914.7	4154397	0.02395	2.40E-02	4.87E-02	4.87E-02	3.88E-03	3.88E-03	2.19E-03	2.19E-03
1368	587909.6	4154405	0.02331	2.33E-02	4.74E-02	4.74E-02	3.78E-03	3.78E-03	2.13E-03	2.13E-03
1369	587899.4	4154420	0.02175	2.18E-02	4.42E-02	4.42E-02	3.52E-03	3.52E-03	1.99E-03	1.99E-03
1370	587894.3	4154428	0.02088	2.09E-02	4.24E-02	4.24E-02	3.38E-03	3.38E-03	1.91E-03	1.91E-03
1371	587889.2	4154435	0.01991	1.99E-02	4.05E-02	4.05E-02	3.22E-03	3.22E-03	1.82E-03	1.82E-03
1372	587884.1	4154443	0.01889	1.89E-02	3.84E-02	3.84E-02	3.06E-03	3.06E-03	1.72E-03	1.72E-03
1373	587879	4154451	0.01785	1.79E-02	3.63E-02	3.63E-02	2.89E-03	2.89E-03	1.63E-03	1.63E-03
1374	587873.9	4154458	0.01681	1.68E-02	3.42E-02	3.42E-02	2.72E-03	2.72E-03	1.53E-03	1.53E-03
1375	587888.8	4154208	0.03134	3.13E-02	6.37E-02	6.37E-02	5.08E-03	5.08E-03	2.86E-03	2.86E-03
1376	587883.7	4154200	0.03021	3.02E-02	6.14E-02	6.14E-02	4.89E-03	4.89E-03	2.76E-03	2.76E-03
1377	587878.6	4154192	0.02895	2.90E-02	5.88E-02	5.88E-02	4.69E-03	4.69E-03	2.64E-03	2.64E-03
1378	587873.5	4154184	0.02759	2.76E-02	5.61E-02	5.61E-02	4.47E-03	4.47E-03	2.52E-03	2.52E-03
1379	587934.8	4154384	0.02298	2.30E-02	4.67E-02	4.67E-02	3.72E-03	3.72E-03	2.10E-03	2.10E-03
1380	587929.8	4154391	0.02263	2.26E-02	4.60E-02	4.60E-02	3.67E-03	3.67E-03	2.07E-03	2.07E-03
1381	587924.8	4154399	0.02218	2.22E-02	4.51E-02	4.51E-02	3.59E-03	3.59E-03	2.03E-03	2.03E-03
1382	587919.7	4154406	0.02163	2.16E-02	4.40E-02	4.40E-02	3.50E-03	3.50E-03	1.97E-03	1.97E-03
1383	587914.7	4154414	0.02099	2.10E-02	4.27E-02	4.27E-02	3.40E-03	3.40E-03	1.92E-03	1.92E-03
1384	587904.6	4154429	0.01954	1.95E-02	3.97E-02	3.97E-02	3.16E-03	3.16E-03	1.78E-03	1.78E-03
1385	587899.6	4154437	0.01871	1.87E-02	3.80E-02	3.80E-02	3.03E-03	3.03E-03	1.71E-03	1.71E-03
1386	587894.5	4154444	0.01783	1.78E-02	3.62E-02	3.62E-02	2.89E-03	2.89E-03	1.63E-03	1.63E-03
1387	587889.5	4154452	0.01693	1.69E-02	3.44E-02	3.44E-02	2.74E-03	2.74E-03	1.55E-03	1.55E-03
1388	587884.5	4154459	0.01601	1.60E-02	3.25E-02	3.25E-02	2.59E-03	2.59E-03	1.46E-03	1.46E-03
1389	587879.4	4154467	0.01509	1.51E-02	3.07E-02	3.07E-02	2.44E-03	2.44E-03	1.38E-03	1.38E-03
1390	587902.3	4154211	0.02977	2.98E-02	6.05E-02	6.05E-02	4.82E-03	4.82E-03	2.72E-03	2.72E-03
1391	587897.2	4154203	0.02891	2.89E-02	5.88E-02	5.88E-02	4.68E-03	4.68E-03	2.64E-03	2.64E-03
1392	587892.1	4154195	0.0279	2.79E-02	5.67E-02	5.67E-02	4.52E-03	4.52E-03	2.55E-03	2.55E-03
1393	587887.1	4154187	0.02679	2.68E-02	5.45E-02	5.45E-02	4.34E-03	4.34E-03	2.45E-03	2.45E-03
1394	587882	4154179	0.0256	2.56E-02	5.20E-02	5.20E-02	4.15E-03	4.15E-03	2.34E-03	2.34E-03
1395	587876.9	4154171	0.02438	2.44E-02	4.96E-02	4.96E-02	3.95E-03	3.95E-03	2.23E-03	2.23E-03
1396	587939.8	4154393	0.02098	2.10E-02	4.26E-02	4.26E-02	3.40E-03	3.40E-03	1.92E-03	1.92E-03
1397	587929.8	4154408	0.02012	2.01E-02	4.09E-02	4.09E-02	3.26E-03	3.26E-03	1.84E-03	1.84E-03
1398	587924.8	4154415	0.01957	1.96E-02	3.98E-02	3.98E-02	3.17E-03	3.17E-03	1.79E-03	1.79E-03
1399	587919.8	4154423	0.01896	1.90E-02	3.85E-02	3.85E-02	3.07E-03	3.07E-03	1.73E-03	1.73E-03
1400	587909.9	4154438	0.0176	1.76E-02	3.58E-02	3.58E-02	2.85E-03	2.85E-03	1.61E-03	1.61E-03
1401	587899.9	4154453	0.01604	1.60E-02	3.26E-02	3.26E-02	2.60E-03	2.60E-03	1.46E-03	1.46E-03
1402	587895	4154460	0.01523	1.52E-02	3.10E-02	3.10E-02	2.47E-03	2.47E-03	1.39E-03	1.39E-03
1403	587885	4154475	0.0136	1.36E-02	2.76E-02	2.76E-02	2.20E-03	2.20E-03	1.24E-03	1.24E-03
1404	587915.9	4154214	0.02816	2.82E-02	5.72E-02	5.72E-02	4.56E-03	4.56E-03	2.57E-03	2.57E-03
1405	587910.8	4154206	0.02754	2.75E-02	5.60E-02	5.60E-02	4.46E-03	4.46E-03	2.51E-03	2.51E-03
1406	587905.7	4154198	0.02677	2.68E-02	5.44E-02	5.44E-02	4.34E-03	4.34E-03	2.44E-03	2.44E-03
1407	587900.6	4154190	0.02587	2.59E-02	5.26E-02	5.26E-02	4.19E-03	4.19E-03	2.36E-03	2.36E-03
1408	587895.5	4154182	0.02488	2.49E-02	5.06E-02	5.06E-02	4.03E-03	4.03E-03	2.27E-03	2.27E-03
1409	587890.5	4154173	0.02383	2.38E-02	4.84E-02	4.84E-02	3.86E-03	3.86E-03	2.18E-03	2.18E-03
1410	587885.4	4154165	0.02275	2.28E-02	4.62E-02	4.62E-02	3.68E-03	3.68E-03	2.08E-03	2.08E-03
1411	587880.3	4154157	0.02166	2.17E-02	4.40E-02	4.40E-02	3.51E-03	3.51E-03	1.98E-03	1.98E-03
1412	587943.5	4154404	0.01907	1.91E-02	3.88E-02	3.88E-02	3.09E-03	3.09E-03	1.74E-03	1.74E-03
1413	587938.2	4154412	0.01861	1.86E-02	3.78E-02	3.78E-02	3.01E-03	3.01E-03	1.70E-03	1.70E-03
1414	587933	4154420	0.01807	1.81E-02	3.67E-02	3.67E-02	2.93E-03	2.93E-03	1.65E-03	1.65E-03
1415	587927.7	4154428	0.01748	1.75E-02	3.55E-02	3.55E-02	2.83E-03	2.83E-03	1.60E-03	1.60E-03
1416	587917.2	4154444	0.01617	1.62E-02	3.29E-02	3.29E-02	2.62E-03	2.62E-03	1.48E-03	1.48E-03
1417	587911.9	4154451	0.01544	1.54E-02	3.14E-02	3.14E-02	2.50E-03	2.50E-03	1.41E-03	1.41E-03
1418	587906.7	4154459	0.01468	1.47E-02	2.98E-02	2.98E-02	2.38E-03	2.38E-03	1.34E-03	1.34E-03
1419	587901.4	4154467	0.0139	1.39E-02	2.83E-02	2.83E-02	2.25E-03	2.25E-03	1.27E-03	1.27E-03
1420	587896.2	4154475	0.01313	1.31E-02	2.67E-02	2.67E-02	2.13E-03	2.13E-03	1.20E-03	1.20E-03
1421	587890.9	4154483	0.01236	1.24E-02	2.51E-02	2.51E-02	2.00E-03	2.00E-03	1.13E-03	1.13E-03
1422	587924.4	4154209	0.02613	2.61E-02	5.31E-02	5.31E-02	4.23E-03	4.23E-03	2.39E-03	2.39E-03
1423	587919.3	4154201	0.02556	2.56E-02	5.20E-02	5.20E-02	4.14E-03	4.14E-03	2.33E-03	2.33E-03
1424	587914.2	4154193	0.02486	2.49E-02	5.05E-02	5.05E-02	4.03E-03	4.03E-03	2.27E-03	2.27E-03
1425	587909.1	4154184	0.02406	2.41E-02	4.89E-02	4.89E-02	3.90E-03	3.90E-03	2.20E-03	2.20E-03
1426	587904	4154176	0.02318	2.32E-02	4.71E-02	4.71E-02	3.75E-03	3.75E-03	2.12E-03	2.12E-03
1427	587898.9	4154168	0.02225	2.23E-02	4.52E-02	4.52E-02	3.60E-03	3.60E-03	2.03E-03	2.03E-03
1428	587893.8	4154160	0.02129	2.13E-02	4.33E-02	4.33E-02	3.45E-03	3.45E-03	1.94E-03	1.94E-03
1429	587948.3	4154414	0.01741	1.74E-02	3.54E-02	3.54E-02	2.82E-03	2.82E-03	1.59E-03	1.59E-03
1430	587943.2	4154421	0.01695	1.70E-02	3.45E-02	3.45E-02	2.75E-03	2.75E-03	1.55E-03	1.55E-03
1431	587938	4154429	0.01643	1.64E-02	3.34E-02	3.34E-02	2.66E-03	2.66E-03	1.50E-03	1.50E-03
1432	587932.8	4154437	0.01586	1.59E-02	3.22E-02	3.22E-02	2.57E-03	2.57E-03	1.45E-03	1.45E-03
1433	587922.4	4154452	0.01465	1.47E-02	2.98E-02	2.98E-02	2.37E-03	2.37E-03	1.34E-03	1.34E-03
1434	587917.2	4154460	0.01398	1.40E-02	2.84E-02	2.84E-02	2.26E-03	2.26E-03	1.28E-03	1.28E-03
1435	587912	4154468	0.01329	1.33E-02	2.70E-02	2.70E-02	2.15E-03	2.15E-03	1.21E-03	1.21E-03
1436	587906.9	4154476	0.0126	1.26E-02	2.56E-02	2.56E-02	2.04E-03	2.04E-03	1.15E-03	1.15E-03
1437	587901.7	4154484	0.01191	1.19E-02	2.42E-02	2.42E-02	1.93E-03	1.93E-03	1.09E-03	1.09E-03

1438	587896.5	4154491	0.01123	1.12E-02	2.28E-02	2.28E-02	1.82E-03	1.82E-03	1.03E-03	1.03E-03
1439	587932.8	4154203	0.02432	2.43E-02	4.94E-02	4.94E-02	3.94E-03	3.94E-03	2.22E-03	2.22E-03
1440	587927.8	4154195	0.0238	2.38E-02	4.84E-02	4.84E-02	3.85E-03	3.85E-03	2.17E-03	2.17E-03
1441	587922.7	4154187	0.02317	2.32E-02	4.71E-02	4.71E-02	3.75E-03	3.75E-03	2.12E-03	2.12E-03
1442	587917.6	4154179	0.02245	2.25E-02	4.56E-02	4.56E-02	3.64E-03	3.64E-03	2.05E-03	2.05E-03
1443	587912.5	4154171	0.02166	2.17E-02	4.40E-02	4.40E-02	3.51E-03	3.51E-03	1.98E-03	1.98E-03
1444	587907.4	4154163	0.02083	2.08E-02	4.23E-02	4.23E-02	3.37E-03	3.37E-03	1.90E-03	1.90E-03
1445	587902.3	4154155	0.01997	2.00E-02	4.06E-02	4.06E-02	3.23E-03	3.23E-03	1.82E-03	1.82E-03
1446	587953.3	4154423	0.01592	1.59E-02	3.24E-02	3.24E-02	2.58E-03	2.58E-03	1.45E-03	1.45E-03
1447	587948.2	4154431	0.01546	1.55E-02	3.14E-02	3.14E-02	2.50E-03	2.50E-03	1.41E-03	1.41E-03
1448	587943.1	4154438	0.01496	1.50E-02	3.04E-02	3.04E-02	2.42E-03	2.42E-03	1.37E-03	1.37E-03
1449	587937.9	4154446	0.01443	1.44E-02	2.93E-02	2.93E-02	2.34E-03	2.34E-03	1.32E-03	1.32E-03
1450	587927.7	4154461	0.01331	1.33E-02	2.71E-02	2.71E-02	2.16E-03	2.16E-03	1.22E-03	1.22E-03
1451	587922.6	4154469	0.0127	1.27E-02	2.58E-02	2.58E-02	2.06E-03	2.06E-03	1.16E-03	1.16E-03
1452	587917.4	4154477	0.01208	1.21E-02	2.46E-02	2.46E-02	1.96E-03	1.96E-03	1.10E-03	1.10E-03
1453	587912.3	4154484	0.01146	1.15E-02	2.33E-02	2.33E-02	1.86E-03	1.86E-03	1.05E-03	1.05E-03
1454	587907.2	4154492	0.01085	1.09E-02	2.21E-02	2.21E-02	1.76E-03	1.76E-03	9.91E-04	9.91E-04
1455	587902.1	4154500	0.01024	1.02E-02	2.08E-02	2.08E-02	1.66E-03	1.66E-03	9.35E-04	9.35E-04
1456	587941.3	4154198	0.0227	2.27E-02	4.61E-02	4.61E-02	3.68E-03	3.68E-03	2.07E-03	2.07E-03
1457	587936.2	4154190	0.02222	2.22E-02	4.52E-02	4.52E-02	3.60E-03	3.60E-03	2.03E-03	2.03E-03
1458	587931.2	4154182	0.02165	2.17E-02	4.40E-02	4.40E-02	3.51E-03	3.51E-03	1.98E-03	1.98E-03
1459	587926.1	4154174	0.021	2.10E-02	4.27E-02	4.27E-02	3.40E-03	3.40E-03	1.92E-03	1.92E-03
1460	587921	4154166	0.02029	2.03E-02	4.12E-02	4.12E-02	3.29E-03	3.29E-03	1.85E-03	1.85E-03
1461	587915.9	4154157	0.01954	1.95E-02	3.97E-02	3.97E-02	3.16E-03	3.16E-03	1.78E-03	1.78E-03
1462	587905.7	4154141	0.01798	1.80E-02	3.65E-02	3.65E-02	2.91E-03	2.91E-03	1.64E-03	1.64E-03
1463	587958.4	4154432	0.01458	1.46E-02	2.96E-02	2.96E-02	2.36E-03	2.36E-03	1.33E-03	1.33E-03
1464	587953.3	4154440	0.01414	1.41E-02	2.87E-02	2.87E-02	2.29E-03	2.29E-03	1.29E-03	1.29E-03
1465	587948.2	4154447	0.01366	1.37E-02	2.78E-02	2.78E-02	2.21E-03	2.21E-03	1.25E-03	1.25E-03
1466	587943.1	4154455	0.01317	1.32E-02	2.68E-02	2.68E-02	2.13E-03	2.13E-03	1.20E-03	1.20E-03
1467	587933	4154470	0.01213	1.21E-02	2.47E-02	2.47E-02	1.96E-03	1.96E-03	1.11E-03	1.11E-03
1468	587927.9	4154478	0.01158	1.16E-02	2.35E-02	2.35E-02	1.88E-03	1.88E-03	1.06E-03	1.06E-03
1469	587922.9	4154485	0.01102	1.10E-02	2.24E-02	2.24E-02	1.78E-03	1.78E-03	1.01E-03	1.01E-03
1470	587917.8	4154493	0.01046	1.05E-02	2.13E-02	2.13E-02	1.69E-03	1.69E-03	9.55E-04	9.55E-04
1471	587912.7	4154500	0.00991	9.91E-03	2.01E-02	2.01E-02	1.60E-03	1.60E-03	9.05E-04	9.05E-04
1472	587907.7	4154508	0.009372	9.37E-03	1.90E-02	1.90E-02	1.52E-03	1.52E-03	8.56E-04	8.56E-04
1473	587944.7	4154185	0.02081	2.08E-02	4.23E-02	4.23E-02	3.37E-03	3.37E-03	1.90E-03	1.90E-03
1474	587939.6	4154177	0.02028	2.03E-02	4.12E-02	4.12E-02	3.28E-03	3.28E-03	1.85E-03	1.85E-03
1475	587934.5	4154168	0.0197	1.97E-02	4.00E-02	4.00E-02	3.19E-03	3.19E-03	1.80E-03	1.80E-03
1476	587929.5	4154160	0.01906	1.91E-02	3.87E-02	3.87E-02	3.09E-03	3.09E-03	1.74E-03	1.74E-03
1477	587914.2	4154136	0.01697	1.70E-02	3.45E-02	3.45E-02	2.75E-03	2.75E-03	1.55E-03	1.55E-03
1478	587966.5	4154437	0.01361	1.36E-02	2.77E-02	2.77E-02	2.20E-03	2.20E-03	1.24E-03	1.24E-03
1479	587961.2	4154444	0.01319	1.32E-02	2.68E-02	2.68E-02	2.14E-03	2.14E-03	1.20E-03	1.20E-03
1480	587955.9	4154452	0.01274	1.27E-02	2.59E-02	2.59E-02	2.06E-03	2.06E-03	1.16E-03	1.16E-03
1481	587950.6	4154460	0.01226	1.23E-02	2.49E-02	2.49E-02	1.99E-03	1.99E-03	1.12E-03	1.12E-03
1482	587934.7	4154484	0.01073	1.07E-02	2.18E-02	2.18E-02	1.74E-03	1.74E-03	9.80E-04	9.80E-04
1483	587929.4	4154492	0.01019	1.02E-02	2.07E-02	2.07E-02	1.65E-03	1.65E-03	9.30E-04	9.30E-04
1484	587924.1	4154500	0.009662	9.66E-03	1.96E-02	1.96E-02	1.56E-03	1.56E-03	8.82E-04	8.82E-04
1485	587918.8	4154508	0.00914	9.14E-03	1.86E-02	1.86E-02	1.48E-03	1.48E-03	8.35E-04	8.35E-04
1486	587913.5	4154516	0.008631	8.63E-03	1.75E-02	1.75E-02	1.40E-03	1.40E-03	7.88E-04	7.88E-04
1487	587953.2	4154179	0.01953	1.95E-02	3.97E-02	3.97E-02	3.16E-03	3.16E-03	1.78E-03	1.78E-03
1488	587948.1	4154171	0.01905	1.91E-02	3.87E-02	3.87E-02	3.09E-03	3.09E-03	1.74E-03	1.74E-03
1489	587943	4154163	0.01851	1.85E-02	3.76E-02	3.76E-02	3.00E-03	3.00E-03	1.69E-03	1.69E-03
1490	587937.9	4154155	0.01793	1.79E-02	3.64E-02	3.64E-02	2.90E-03	2.90E-03	1.64E-03	1.64E-03
1491	587922.7	4154131	0.01604	1.60E-02	3.26E-02	3.26E-02	2.60E-03	2.60E-03	1.46E-03	1.46E-03
1492	587971.5	4154446	0.01251	1.25E-02	2.54E-02	2.54E-02	2.03E-03	2.03E-03	1.14E-03	1.14E-03
1493	587966.3	4154454	0.01211	1.21E-02	2.46E-02	2.46E-02	1.96E-03	1.96E-03	1.11E-03	1.11E-03
1494	587961	4154462	0.01168	1.17E-02	2.37E-02	2.37E-02	1.89E-03	1.89E-03	1.07E-03	1.07E-03
1495	587955.8	4154469	0.01124	1.12E-02	2.28E-02	2.28E-02	1.82E-03	1.82E-03	1.03E-03	1.03E-03
1496	587940.1	4154493	0.009831	9.83E-03	2.00E-02	2.00E-02	1.59E-03	1.59E-03	8.98E-04	8.98E-04
1497	587934.8	4154501	0.009348	9.35E-03	1.90E-02	1.90E-02	1.51E-03	1.51E-03	8.54E-04	8.54E-04
1498	587929.6	4154509	0.00887	8.87E-03	1.80E-02	1.80E-02	1.44E-03	1.44E-03	8.10E-04	8.10E-04
1499	587924.3	4154516	0.008402	8.40E-03	1.71E-02	1.71E-02	1.36E-03	1.36E-03	7.67E-04	7.67E-04
1500	587919.1	4154524	0.007947	7.95E-03	1.62E-02	1.62E-02	1.29E-03	1.29E-03	7.26E-04	7.26E-04
1501	587961.7	4154174	0.01837	1.84E-02	3.73E-02	3.73E-02	2.98E-03	2.98E-03	1.68E-03	1.68E-03
1502	587956.6	4154166	0.01793	1.79E-02	3.64E-02	3.64E-02	2.90E-03	2.90E-03	1.64E-03	1.64E-03
1503	587951.5	4154158	0.01744	1.74E-02	3.54E-02	3.54E-02	2.82E-03	2.82E-03	1.59E-03	1.59E-03
1504	587946.4	4154150	0.01691	1.69E-02	3.44E-02	3.44E-02	2.74E-03	2.74E-03	1.54E-03	1.54E-03
1505	587941.3	4154142	0.01636	1.64E-02	3.33E-02	3.33E-02	2.65E-03	2.65E-03	1.49E-03	1.49E-03
1506	587936.2	4154133	0.01578	1.58E-02	3.21E-02	3.21E-02	2.56E-03	2.56E-03	1.44E-03	1.44E-03
1507	587931.2	4154125	0.01519	1.52E-02	3.09E-02	3.09E-02	2.46E-03	2.46E-03	1.39E-03	1.39E-03
1508	587976.5	4154455	0.01152	1.15E-02	2.34E-02	2.34E-02	1.87E-03	1.87E-03	1.05E-03	1.05E-03
1509	587971.4	4154463	0.01113	1.11E-02	2.26E-02	2.26E-02	1.80E-03	1.80E-03	1.02E-03	1.02E-03

1510	587966.2	4154470	0.01073	1.07E-02	2.18E-02	2.18E-02	1.74E-03	1.74E-03	9.80E-04	9.80E-04
1511	587961	4154478	0.01031	1.03E-02	2.10E-02	2.10E-02	1.67E-03	1.67E-03	9.41E-04	9.41E-04
1512	587945.4	4154502	0.009035	9.04E-03	1.84E-02	1.84E-02	1.46E-03	1.46E-03	8.25E-04	8.25E-04
1513	587940.2	4154509	0.008598	8.60E-03	1.75E-02	1.75E-02	1.39E-03	1.39E-03	7.85E-04	7.85E-04
1514	587935.1	4154517	0.008168	8.17E-03	1.66E-02	1.66E-02	1.32E-03	1.32E-03	7.46E-04	7.46E-04
1515	587929.9	4154525	0.007747	7.75E-03	1.57E-02	1.57E-02	1.25E-03	1.25E-03	7.07E-04	7.07E-04
1516	587924.7	4154533	0.007339	7.34E-03	1.49E-02	1.49E-02	1.19E-03	1.19E-03	6.70E-04	6.70E-04
1517	587965.1	4154161	0.01691	1.69E-02	3.44E-02	3.44E-02	2.74E-03	2.74E-03	1.54E-03	1.54E-03
1518	587960	4154153	0.01646	1.65E-02	3.35E-02	3.35E-02	2.67E-03	2.67E-03	1.50E-03	1.50E-03
1519	587954.9	4154144	0.01598	1.60E-02	3.25E-02	3.25E-02	2.59E-03	2.59E-03	1.46E-03	1.46E-03
1520	587949.8	4154136	0.01547	1.55E-02	3.14E-02	3.14E-02	2.51E-03	2.51E-03	1.41E-03	1.41E-03
1521	587944.7	4154128	0.01494	1.49E-02	3.04E-02	3.04E-02	2.42E-03	2.42E-03	1.36E-03	1.36E-03
1522	587939.6	4154120	0.01441	1.44E-02	2.93E-02	2.93E-02	2.33E-03	2.33E-03	1.32E-03	1.32E-03
1523	587981.6	4154464	0.01062	1.06E-02	2.16E-02	2.16E-02	1.72E-03	1.72E-03	9.70E-04	9.70E-04
1524	587976.5	4154472	0.01026	1.03E-02	2.09E-02	2.09E-02	1.66E-03	1.66E-03	9.37E-04	9.37E-04
1525	587971.4	4154479	0.009882	9.88E-03	2.01E-02	2.01E-02	1.60E-03	1.60E-03	9.02E-04	9.02E-04
1526	587966.2	4154487	0.009493	9.49E-03	1.93E-02	1.93E-02	1.54E-03	1.54E-03	8.67E-04	8.67E-04
1527	587950.8	4154510	0.008325	8.33E-03	1.69E-02	1.69E-02	1.35E-03	1.35E-03	7.60E-04	7.60E-04
1528	587945.7	4154518	0.007931	7.93E-03	1.61E-02	1.61E-02	1.28E-03	1.28E-03	7.24E-04	7.24E-04
1529	587940.6	4154526	0.007542	7.54E-03	1.53E-02	1.53E-02	1.22E-03	1.22E-03	6.89E-04	6.89E-04
1530	587935.4	4154533	0.007163	7.16E-03	1.46E-02	1.46E-02	1.16E-03	1.16E-03	6.54E-04	6.54E-04
1531	587930.3	4154541	0.006796	6.80E-03	1.38E-02	1.38E-02	1.10E-03	1.10E-03	6.21E-04	6.21E-04
1532	587973.5	4154155	0.01598	1.60E-02	3.25E-02	3.25E-02	2.59E-03	2.59E-03	1.46E-03	1.46E-03
1533	587968.5	4154147	0.01557	1.56E-02	3.16E-02	3.16E-02	2.52E-03	2.52E-03	1.42E-03	1.42E-03
1534	587963.4	4154139	0.01512	1.51E-02	3.07E-02	3.07E-02	2.45E-03	2.45E-03	1.38E-03	1.38E-03
1535	587958.3	4154131	0.01466	1.47E-02	2.98E-02	2.98E-02	2.37E-03	2.37E-03	1.34E-03	1.34E-03
1536	587953.2	4154123	0.01418	1.42E-02	2.88E-02	2.88E-02	2.30E-03	2.30E-03	1.29E-03	1.29E-03
1537	587948.1	4154115	0.01369	1.37E-02	2.78E-02	2.78E-02	2.22E-03	2.22E-03	1.25E-03	1.25E-03
1538	587986.8	4154473	0.009815	9.82E-03	2.00E-02	2.00E-02	1.59E-03	1.59E-03	8.96E-04	8.96E-04
1539	587981.7	4154481	0.009475	9.48E-03	1.93E-02	1.93E-02	1.53E-03	1.53E-03	8.65E-04	8.65E-04
1540	587976.6	4154488	0.009122	9.12E-03	1.85E-02	1.85E-02	1.48E-03	1.48E-03	8.33E-04	8.33E-04
1541	587971.5	4154496	0.008762	8.76E-03	1.78E-02	1.78E-02	1.42E-03	1.42E-03	8.00E-04	8.00E-04
1542	587956.2	4154519	0.007695	7.70E-03	1.56E-02	1.56E-02	1.25E-03	1.25E-03	7.03E-04	7.03E-04
1543	587951.2	4154526	0.007335	7.34E-03	1.49E-02	1.49E-02	1.19E-03	1.19E-03	6.70E-04	6.70E-04
1544	587946.1	4154534	0.006983	6.98E-03	1.42E-02	1.42E-02	1.13E-03	1.13E-03	6.38E-04	6.38E-04
1545	587941	4154542	0.00664	6.64E-03	1.35E-02	1.35E-02	1.08E-03	1.08E-03	6.06E-04	6.06E-04
1546	587935.9	4154549	0.006309	6.31E-03	1.28E-02	1.28E-02	1.02E-03	1.02E-03	5.76E-04	5.76E-04
1547	587976.9	4154142	0.01475	1.48E-02	3.00E-02	3.00E-02	2.39E-03	2.39E-03	1.35E-03	1.35E-03
1548	587971.9	4154134	0.01434	1.43E-02	2.91E-02	2.91E-02	2.32E-03	2.32E-03	1.31E-03	1.31E-03
1549	587966.8	4154126	0.01391	1.39E-02	2.83E-02	2.83E-02	2.25E-03	2.25E-03	1.27E-03	1.27E-03
1550	587961.7	4154118	0.01347	1.35E-02	2.74E-02	2.74E-02	2.18E-03	2.18E-03	1.23E-03	1.23E-03
1551	587956.6	4154109	0.01302	1.30E-02	2.65E-02	2.65E-02	2.11E-03	2.11E-03	1.19E-03	1.19E-03
1552	587994.5	4154478	0.009243	9.24E-03	1.88E-02	1.88E-02	1.50E-03	1.50E-03	8.44E-04	8.44E-04
1553	587989.2	4154486	0.008914	8.91E-03	1.81E-02	1.81E-02	1.44E-03	1.44E-03	8.14E-04	8.14E-04
1554	587983.9	4154494	0.008574	8.57E-03	1.74E-02	1.74E-02	1.39E-03	1.39E-03	7.83E-04	7.83E-04
1555	587978.7	4154502	0.008228	8.23E-03	1.67E-02	1.67E-02	1.33E-03	1.33E-03	7.51E-04	7.51E-04
1556	587962.8	4154526	0.007203	7.20E-03	1.46E-02	1.46E-02	1.17E-03	1.17E-03	6.58E-04	6.58E-04
1557	587957.5	4154534	0.00686	6.86E-03	1.39E-02	1.39E-02	1.11E-03	1.11E-03	6.26E-04	6.26E-04
1558	587952.3	4154541	0.006525	6.53E-03	1.33E-02	1.33E-02	1.06E-03	1.06E-03	5.96E-04	5.96E-04
1559	587947	4154549	0.006199	6.20E-03	1.26E-02	1.26E-02	1.00E-03	1.00E-03	5.66E-04	5.66E-04
1560	587941.7	4154557	0.005886	5.89E-03	1.20E-02	1.20E-02	9.53E-04	9.53E-04	5.37E-04	5.37E-04
1561	587980.3	4154129	0.01362	1.36E-02	2.77E-02	2.77E-02	2.21E-03	2.21E-03	1.24E-03	1.24E-03
1562	587975.3	4154120	0.01322	1.32E-02	2.69E-02	2.69E-02	2.14E-03	2.14E-03	1.21E-03	1.21E-03
1563	587970.2	4154112	0.01281	1.28E-02	2.60E-02	2.60E-02	2.07E-03	2.07E-03	1.17E-03	1.17E-03
1564	587965.1	4154104	0.0124	1.24E-02	2.52E-02	2.52E-02	2.01E-03	2.01E-03	1.13E-03	1.13E-03
1565	587999.6	4154487	0.008567	8.57E-03	1.74E-02	1.74E-02	1.39E-03	1.39E-03	7.82E-04	7.82E-04
1566	587994.4	4154495	0.008259	8.26E-03	1.68E-02	1.68E-02	1.34E-03	1.34E-03	7.54E-04	7.54E-04
1567	587989.1	4154503	0.007944	7.94E-03	1.61E-02	1.61E-02	1.29E-03	1.29E-03	7.25E-04	7.25E-04
1568	587983.9	4154511	0.007626	7.63E-03	1.55E-02	1.55E-02	1.24E-03	1.24E-03	6.96E-04	6.96E-04
1569	587968.2	4154534	0.006685	6.69E-03	1.36E-02	1.36E-02	1.08E-03	1.08E-03	6.10E-04	6.10E-04
1570	587963	4154542	0.006373	6.37E-03	1.30E-02	1.30E-02	1.03E-03	1.03E-03	5.82E-04	5.82E-04
1571	587957.8	4154550	0.006068	6.07E-03	1.23E-02	1.23E-02	9.83E-04	9.83E-04	5.54E-04	5.54E-04
1572	587952.5	4154558	0.005774	5.77E-03	1.17E-02	1.17E-02	9.35E-04	9.35E-04	5.27E-04	5.27E-04
1573	587947.3	4154566	0.00549	5.49E-03	1.12E-02	1.12E-02	8.89E-04	8.89E-04	5.01E-04	5.01E-04
1574	587978.6	4154107	0.01221	1.22E-02	2.48E-02	2.48E-02	1.98E-03	1.98E-03	1.11E-03	1.11E-03
1575	587973.6	4154099	0.01183	1.18E-02	2.40E-02	2.40E-02	1.92E-03	1.92E-03	1.08E-03	1.08E-03
1576	588004.7	4154496	0.007956	7.96E-03	1.62E-02	1.62E-02	1.29E-03	1.29E-03	7.26E-04	7.26E-04
1577	587999.6	4154504	0.007668	7.67E-03	1.56E-02	1.56E-02	1.24E-03	1.24E-03	7.00E-04	7.00E-04
1578	587994.4	4154512	0.007375	7.38E-03	1.50E-02	1.50E-02	1.19E-03	1.19E-03	6.73E-04	6.73E-04
1579	587989.2	4154520	0.007081	7.08E-03	1.44E-02	1.44E-02	1.15E-03	1.15E-03	6.47E-04	6.47E-04
1580	587973.6	4154543	0.006218	6.22E-03	1.26E-02	1.26E-02	1.01E-03	1.01E-03	5.68E-04	5.68E-04
1581	587968.5	4154551	0.005934	5.93E-03	1.21E-02	1.21E-02	9.61E-04	9.61E-04	5.42E-04	5.42E-04

1582	587963.3	4154558	0.005657	5.66E-03	1.15E-02	1.15E-02	9.16E-04	9.16E-04	5.17E-04	5.17E-04
1583	587958.1	4154566	0.005389	5.39E-03	1.10E-02	1.10E-02	8.73E-04	8.73E-04	4.92E-04	4.92E-04
1584	587952.9	4154574	0.005132	5.13E-03	1.04E-02	1.04E-02	8.31E-04	8.31E-04	4.69E-04	4.69E-04
1585	587982	4154094	0.0113	1.13E-02	2.30E-02	2.30E-02	1.83E-03	1.83E-03	1.03E-03	1.03E-03
1586	588009.9	4154505	0.007402	7.40E-03	1.50E-02	1.50E-02	1.20E-03	1.20E-03	6.76E-04	6.76E-04
1587	588004.8	4154513	0.007133	7.13E-03	1.45E-02	1.45E-02	1.16E-03	1.16E-03	6.51E-04	6.51E-04
1588	587999.6	4154521	0.00686	6.86E-03	1.39E-02	1.39E-02	1.11E-03	1.11E-03	6.26E-04	6.26E-04
1589	587994.5	4154528	0.006587	6.59E-03	1.34E-02	1.34E-02	1.07E-03	1.07E-03	6.01E-04	6.01E-04
1590	587979.1	4154551	0.005796	5.80E-03	1.18E-02	1.18E-02	9.39E-04	9.39E-04	5.29E-04	5.29E-04
1591	587973.9	4154559	0.005537	5.54E-03	1.13E-02	1.13E-02	8.97E-04	8.97E-04	5.06E-04	5.06E-04
1592	587968.8	4154567	0.005285	5.29E-03	1.07E-02	1.07E-02	8.56E-04	8.56E-04	4.83E-04	4.83E-04
1593	587963.6	4154574	0.005042	5.04E-03	1.02E-02	1.02E-02	8.17E-04	8.17E-04	4.60E-04	4.60E-04
1594	587958.5	4154582	0.004807	4.81E-03	9.77E-03	9.77E-03	7.79E-04	7.79E-04	4.39E-04	4.39E-04
1595	587704.5	4154232	0.07639	7.64E-02	1.55E-01	1.55E-01	1.24E-02	1.24E-02	6.97E-03	6.97E-03
1596	587713.5	4154218	0.05755	5.76E-02	1.17E-01	1.17E-01	9.32E-03	9.32E-03	5.25E-03	5.25E-03
1597	587699.1	4154223	0.06153	6.15E-02	1.25E-01	1.25E-01	9.97E-03	9.97E-03	5.62E-03	5.62E-03
1598	587708	4154209	0.04804	4.80E-02	9.76E-02	9.76E-02	7.78E-03	7.78E-03	4.39E-03	4.39E-03
1599	587693.6	4154215	0.05091	5.09E-02	1.03E-01	1.03E-01	8.25E-03	8.25E-03	4.65E-03	4.65E-03
1600	587688.2	4154207	0.04297	4.30E-02	8.73E-02	8.73E-02	6.96E-03	6.96E-03	3.92E-03	3.92E-03
1601	587727.6	4154187	0.03506	3.51E-02	7.13E-02	7.13E-02	5.68E-03	5.68E-03	3.20E-03	3.20E-03
1602	587706.9	4154181	0.03067	3.07E-02	6.23E-02	6.23E-02	4.97E-03	4.97E-03	2.80E-03	2.80E-03
1603	587722.1	4154179	0.03068	3.07E-02	6.24E-02	6.24E-02	4.97E-03	4.97E-03	2.80E-03	2.80E-03
1604	587737.4	4154176	0.03056	3.06E-02	6.21E-02	6.21E-02	4.95E-03	4.95E-03	2.79E-03	2.79E-03
1605	587701.5	4154173	0.02701	2.70E-02	5.49E-02	5.49E-02	4.37E-03	4.37E-03	2.47E-03	2.47E-03
1606	587716.7	4154170	0.02706	2.71E-02	5.50E-02	5.50E-02	4.38E-03	4.38E-03	2.47E-03	2.47E-03
1607	587731.9	4154167	0.02707	2.71E-02	5.50E-02	5.50E-02	4.38E-03	4.38E-03	2.47E-03	2.47E-03
1608	587680.8	4154167	0.02397	2.40E-02	4.87E-02	4.87E-02	3.88E-03	3.88E-03	2.19E-03	2.19E-03
1609	587711.3	4154162	0.02405	2.41E-02	4.89E-02	4.89E-02	3.90E-03	3.90E-03	2.20E-03	2.20E-03
1610	587726.5	4154159	0.02412	2.41E-02	4.90E-02	4.90E-02	3.91E-03	3.91E-03	2.20E-03	2.20E-03
1611	587741.7	4154156	0.0241	2.41E-02	4.90E-02	4.90E-02	3.90E-03	3.90E-03	2.20E-03	2.20E-03
1612	587666.4	4154173	0.02492	2.49E-02	5.07E-02	5.07E-02	4.04E-03	4.04E-03	2.28E-03	2.28E-03
1613	587675.4	4154159	0.02146	2.15E-02	4.36E-02	4.36E-02	3.48E-03	3.48E-03	1.96E-03	1.96E-03
1614	587690.6	4154156	0.02146	2.15E-02	4.36E-02	4.36E-02	3.48E-03	3.48E-03	1.96E-03	1.96E-03
1615	587705.8	4154153	0.02151	2.15E-02	4.37E-02	4.37E-02	3.48E-03	3.48E-03	1.96E-03	1.96E-03
1616	587721	4154151	0.0216	2.16E-02	4.39E-02	4.39E-02	3.50E-03	3.50E-03	1.97E-03	1.97E-03
1617	587736.2	4154148	0.02166	2.17E-02	4.40E-02	4.40E-02	3.51E-03	3.51E-03	1.98E-03	1.98E-03
1618	587783	4154167	0.02853	2.85E-02	5.80E-02	5.80E-02	4.62E-03	4.62E-03	2.60E-03	2.60E-03
1619	587795.7	4154176	0.03146	3.15E-02	6.39E-02	6.39E-02	5.10E-03	5.10E-03	2.87E-03	2.87E-03
1620	587661	4154165	0.02228	2.23E-02	4.53E-02	4.53E-02	3.61E-03	3.61E-03	2.03E-03	2.03E-03
1621	587669.9	4154150	0.01935	1.94E-02	3.93E-02	3.93E-02	3.13E-03	3.13E-03	1.77E-03	1.77E-03
1622	587685.1	4154148	0.01933	1.93E-02	3.93E-02	3.93E-02	3.13E-03	3.13E-03	1.76E-03	1.76E-03
1623	587715.6	4154142	0.01946	1.95E-02	3.96E-02	3.96E-02	3.15E-03	3.15E-03	1.78E-03	1.78E-03
1624	587730.8	4154139	0.01955	1.96E-02	3.97E-02	3.97E-02	3.17E-03	3.17E-03	1.79E-03	1.79E-03
1625	587772.6	4154149	0.02303	2.30E-02	4.68E-02	4.68E-02	3.73E-03	3.73E-03	2.10E-03	2.10E-03
1626	587785.2	4154158	0.0255	2.55E-02	5.18E-02	5.18E-02	4.13E-03	4.13E-03	2.33E-03	2.33E-03
1627	587797.8	4154167	0.02801	2.80E-02	5.69E-02	5.69E-02	4.54E-03	4.54E-03	2.56E-03	2.56E-03
1628	587810.5	4154176	0.03049	3.05E-02	6.20E-02	6.20E-02	4.94E-03	4.94E-03	2.78E-03	2.78E-03
1629	587655.5	4154156	0.02007	2.01E-02	4.08E-02	4.08E-02	3.25E-03	3.25E-03	1.83E-03	1.83E-03
1630	587664.5	4154142	0.01755	1.76E-02	3.57E-02	3.57E-02	2.84E-03	2.84E-03	1.60E-03	1.60E-03
1631	587679.7	4154139	0.01751	1.75E-02	3.56E-02	3.56E-02	2.84E-03	2.84E-03	1.60E-03	1.60E-03
1632	587710.1	4154134	0.01761	1.76E-02	3.58E-02	3.58E-02	2.85E-03	2.85E-03	1.61E-03	1.61E-03
1633	587725.4	4154131	0.01772	1.77E-02	3.60E-02	3.60E-02	2.87E-03	2.87E-03	1.62E-03	1.62E-03
1634	587740.6	4154128	0.0178	1.78E-02	3.62E-02	3.62E-02	2.88E-03	2.88E-03	1.63E-03	1.63E-03
1635	587774.7	4154139	0.02082	2.08E-02	4.23E-02	4.23E-02	3.37E-03	3.37E-03	1.90E-03	1.90E-03
1636	587787.4	4154148	0.02296	2.30E-02	4.67E-02	4.67E-02	3.72E-03	3.72E-03	2.10E-03	2.10E-03
1637	587800	4154157	0.02513	2.51E-02	5.11E-02	5.11E-02	4.07E-03	4.07E-03	2.29E-03	2.29E-03
1638	587812.6	4154166	0.02728	2.73E-02	5.54E-02	5.54E-02	4.42E-03	4.42E-03	2.49E-03	2.49E-03
1639	587825.3	4154175	0.02932	2.93E-02	5.96E-02	5.96E-02	4.75E-03	4.75E-03	2.68E-03	2.68E-03
1640	587650.1	4154148	0.0182	1.82E-02	3.70E-02	3.70E-02	2.95E-03	2.95E-03	1.66E-03	1.66E-03
1641	587674.3	4154131	0.01596	1.60E-02	3.24E-02	3.24E-02	2.58E-03	2.58E-03	1.46E-03	1.46E-03
1642	587704.7	4154125	0.01602	1.60E-02	3.26E-02	3.26E-02	2.59E-03	2.59E-03	1.46E-03	1.46E-03
1643	587719.9	4154123	0.01612	1.61E-02	3.28E-02	3.28E-02	2.61E-03	2.61E-03	1.47E-03	1.47E-03
1644	587735.1	4154120	0.01622	1.62E-02	3.30E-02	3.30E-02	2.63E-03	2.63E-03	1.48E-03	1.48E-03
1645	587776.9	4154129	0.01893	1.89E-02	3.85E-02	3.85E-02	3.07E-03	3.07E-03	1.73E-03	1.73E-03
1646	587789.5	4154138	0.02079	2.08E-02	4.23E-02	4.23E-02	3.37E-03	3.37E-03	1.90E-03	1.90E-03
1647	587802.2	4154147	0.02269	2.27E-02	4.61E-02	4.61E-02	3.67E-03	3.67E-03	2.07E-03	2.07E-03
1648	587814.8	4154156	0.02457	2.46E-02	4.99E-02	4.99E-02	3.98E-03	3.98E-03	2.24E-03	2.24E-03
1649	587827.4	4154165	0.02638	2.64E-02	5.36E-02	5.36E-02	4.27E-03	4.27E-03	2.41E-03	2.41E-03
1650	587644.6	4154140	0.0166	1.66E-02	3.37E-02	3.37E-02	2.69E-03	2.69E-03	1.52E-03	1.52E-03
1651	587714.5	4154114	0.01473	1.47E-02	2.99E-02	2.99E-02	2.39E-03	2.39E-03	1.34E-03	1.34E-03
1652	587729.7	4154112	0.01484	1.48E-02	3.02E-02	3.02E-02	2.40E-03	2.40E-03	1.35E-03	1.35E-03
1653	587779.1	4154119	0.0173	1.73E-02	3.52E-02	3.52E-02	2.80E-03	2.80E-03	1.58E-03	1.58E-03

1654	587791.7	4154128	0.01894	1.89E-02	3.85E-02	3.85E-02	3.07E-03	3.07E-03	1.73E-03	1.73E-03
1655	587804.3	4154137	0.0206	2.06E-02	4.19E-02	4.19E-02	3.34E-03	3.34E-03	1.88E-03	1.88E-03
1656	587817	4154146	0.02226	2.23E-02	4.52E-02	4.52E-02	3.61E-03	3.61E-03	2.03E-03	2.03E-03
1657	587829.6	4154155	0.02386	2.39E-02	4.85E-02	4.85E-02	3.86E-03	3.86E-03	2.18E-03	2.18E-03
1658	587842.2	4154164	0.02535	2.54E-02	5.15E-02	5.15E-02	4.11E-03	4.11E-03	2.31E-03	2.31E-03
1659	587648.1	4154117	0.01354	1.35E-02	2.75E-02	2.75E-02	2.19E-03	2.19E-03	1.24E-03	1.24E-03
1660	587663.4	4154114	0.01346	1.35E-02	2.74E-02	2.74E-02	2.18E-03	2.18E-03	1.23E-03	1.23E-03
1661	587678.6	4154111	0.01342	1.34E-02	2.73E-02	2.73E-02	2.17E-03	2.17E-03	1.23E-03	1.23E-03
1662	587709	4154106	0.01351	1.35E-02	2.75E-02	2.75E-02	2.19E-03	2.19E-03	1.23E-03	1.23E-03
1663	587724.2	4154103	0.01362	1.36E-02	2.77E-02	2.77E-02	2.21E-03	2.21E-03	1.24E-03	1.24E-03
1664	587768.6	4154101	0.01447	1.45E-02	2.94E-02	2.94E-02	2.34E-03	2.34E-03	1.32E-03	1.32E-03
1665	587781.2	4154110	0.01587	1.59E-02	3.23E-02	3.23E-02	2.57E-03	2.57E-03	1.45E-03	1.45E-03
1666	587793.9	4154119	0.01733	1.73E-02	3.52E-02	3.52E-02	2.81E-03	2.81E-03	1.58E-03	1.58E-03
1667	587806.5	4154128	0.01881	1.88E-02	3.82E-02	3.82E-02	3.05E-03	3.05E-03	1.72E-03	1.72E-03
1668	587844.4	4154154	0.02305	2.31E-02	4.69E-02	4.69E-02	3.73E-03	3.73E-03	2.10E-03	2.10E-03
1669	587633.7	4154123	0.01402	1.40E-02	2.85E-02	2.85E-02	2.27E-03	2.27E-03	1.28E-03	1.28E-03
1670	587642.7	4154109	0.01253	1.25E-02	2.55E-02	2.55E-02	2.03E-03	2.03E-03	1.14E-03	1.14E-03
1671	587657.9	4154106	0.01244	1.24E-02	2.53E-02	2.53E-02	2.01E-03	2.01E-03	1.14E-03	1.14E-03
1672	587673.1	4154103	0.01239	1.24E-02	2.52E-02	2.52E-02	2.01E-03	2.01E-03	1.13E-03	1.13E-03
1673	587703.6	4154098	0.01245	1.25E-02	2.53E-02	2.53E-02	2.02E-03	2.02E-03	1.14E-03	1.14E-03
1674	587718.8	4154095	0.01254	1.25E-02	2.55E-02	2.55E-02	2.03E-03	2.03E-03	1.14E-03	1.14E-03
1675	587770.8	4154091	0.01338	1.34E-02	2.72E-02	2.72E-02	2.17E-03	2.17E-03	1.22E-03	1.22E-03
1676	587783.4	4154100	0.01463	1.46E-02	2.97E-02	2.97E-02	2.37E-03	2.37E-03	1.34E-03	1.34E-03
1677	587796	4154109	0.01593	1.59E-02	3.24E-02	3.24E-02	2.58E-03	2.58E-03	1.45E-03	1.45E-03
1678	587808.7	4154118	0.01724	1.72E-02	3.50E-02	3.50E-02	2.79E-03	2.79E-03	1.57E-03	1.57E-03
1679	587833.9	4154136	0.01983	1.98E-02	4.03E-02	4.03E-02	3.21E-03	3.21E-03	1.81E-03	1.81E-03
1680	587628.3	4154114	0.01297	1.30E-02	2.64E-02	2.64E-02	2.10E-03	2.10E-03	1.18E-03	1.18E-03
1681	587637.3	4154100	0.01164	1.16E-02	2.37E-02	2.37E-02	1.89E-03	1.89E-03	1.06E-03	1.06E-03
1682	587652.5	4154097	0.01154	1.15E-02	2.35E-02	2.35E-02	1.87E-03	1.87E-03	1.05E-03	1.05E-03
1683	587667.7	4154095	0.01148	1.15E-02	2.33E-02	2.33E-02	1.86E-03	1.86E-03	1.05E-03	1.05E-03
1684	587698.1	4154089	0.01151	1.15E-02	2.34E-02	2.34E-02	1.86E-03	1.86E-03	1.05E-03	1.05E-03
1685	587713.4	4154086	0.01158	1.16E-02	2.35E-02	2.35E-02	1.88E-03	1.88E-03	1.06E-03	1.06E-03
1686	587759	4154078	0.01185	1.19E-02	2.41E-02	2.41E-02	1.92E-03	1.92E-03	1.08E-03	1.08E-03
1687	587772.9	4154081	0.01241	1.24E-02	2.52E-02	2.52E-02	2.01E-03	2.01E-03	1.13E-03	1.13E-03
1688	587785.6	4154090	0.01353	1.35E-02	2.75E-02	2.75E-02	2.19E-03	2.19E-03	1.24E-03	1.24E-03
1689	587798.2	4154099	0.01469	1.47E-02	2.99E-02	2.99E-02	2.38E-03	2.38E-03	1.34E-03	1.34E-03
1690	587823.4	4154117	0.01705	1.71E-02	3.47E-02	3.47E-02	2.76E-03	2.76E-03	1.56E-03	1.56E-03
1691	587836.1	4154126	0.01819	1.82E-02	3.70E-02	3.70E-02	2.95E-03	2.95E-03	1.66E-03	1.66E-03
1692	587848.7	4154135	0.01929	1.93E-02	3.92E-02	3.92E-02	3.12E-03	3.12E-03	1.76E-03	1.76E-03
1693	587622.9	4154106	0.01205	1.21E-02	2.45E-02	2.45E-02	1.95E-03	1.95E-03	1.10E-03	1.10E-03
1694	587631.8	4154092	0.01085	1.09E-02	2.21E-02	2.21E-02	1.76E-03	1.76E-03	9.91E-04	9.91E-04
1695	587647	4154089	0.01075	1.08E-02	2.19E-02	2.19E-02	1.74E-03	1.74E-03	9.82E-04	9.82E-04
1696	587662.3	4154086	0.01068	1.07E-02	2.17E-02	2.17E-02	1.73E-03	1.73E-03	9.75E-04	9.75E-04
1697	587692.7	4154081	0.01067	1.07E-02	2.17E-02	2.17E-02	1.73E-03	1.73E-03	9.74E-04	9.74E-04
1698	587707.9	4154078	0.01073	1.07E-02	2.18E-02	2.18E-02	1.74E-03	1.74E-03	9.80E-04	9.80E-04
1699	587753.6	4154070	0.011	1.10E-02	2.24E-02	2.24E-02	1.78E-03	1.78E-03	1.00E-03	1.00E-03
1700	587775.1	4154071	0.01154	1.15E-02	2.35E-02	2.35E-02	1.87E-03	1.87E-03	1.05E-03	1.05E-03
1701	587787.7	4154080	0.01256	1.26E-02	2.55E-02	2.55E-02	2.03E-03	2.03E-03	1.15E-03	1.15E-03
1702	587800.4	4154089	0.0136	1.36E-02	2.76E-02	2.76E-02	2.20E-03	2.20E-03	1.24E-03	1.24E-03
1703	587825.6	4154107	0.01573	1.57E-02	3.20E-02	3.20E-02	2.55E-03	2.55E-03	1.44E-03	1.44E-03
1704	587838.2	4154116	0.01676	1.68E-02	3.41E-02	3.41E-02	2.71E-03	2.71E-03	1.53E-03	1.53E-03
1705	587850.9	4154125	0.01775	1.78E-02	3.61E-02	3.61E-02	2.87E-03	2.87E-03	1.62E-03	1.62E-03
1706	587863.5	4154134	0.01869	1.87E-02	3.80E-02	3.80E-02	3.03E-03	3.03E-03	1.71E-03	1.71E-03
1707	587617.4	4154098	0.01123	1.12E-02	2.28E-02	2.28E-02	1.82E-03	1.82E-03	1.03E-03	1.03E-03
1708	587626.4	4154083	0.01015	1.02E-02	2.06E-02	2.06E-02	1.64E-03	1.64E-03	9.27E-04	9.27E-04
1709	587641.6	4154081	0.01005	1.01E-02	2.04E-02	2.04E-02	1.63E-03	1.63E-03	9.18E-04	9.18E-04
1710	587656.8	4154078	0.009971	9.97E-03	2.03E-02	2.03E-02	1.61E-03	1.61E-03	9.10E-04	9.10E-04
1711	587687.2	4154072	0.009936	9.94E-03	2.02E-02	2.02E-02	1.61E-03	1.61E-03	9.07E-04	9.07E-04
1712	587702.5	4154070	0.009979	9.98E-03	2.03E-02	2.03E-02	1.62E-03	1.62E-03	9.11E-04	9.11E-04
1713	587717.7	4154067	0.01005	1.01E-02	2.04E-02	2.04E-02	1.63E-03	1.63E-03	9.18E-04	9.18E-04
1714	587748.1	4154061	0.01022	1.02E-02	2.08E-02	2.08E-02	1.66E-03	1.66E-03	9.33E-04	9.33E-04
1715	587763.3	4154059	0.01028	1.03E-02	2.09E-02	2.09E-02	1.66E-03	1.66E-03	9.39E-04	9.39E-04
1716	587777.3	4154062	0.01075	1.08E-02	2.19E-02	2.19E-02	1.74E-03	1.74E-03	9.82E-04	9.82E-04
1717	587789.9	4154071	0.01168	1.17E-02	2.37E-02	2.37E-02	1.89E-03	1.89E-03	1.07E-03	1.07E-03
1718	587802.5	4154080	0.01262	1.26E-02	2.57E-02	2.57E-02	2.04E-03	2.04E-03	1.15E-03	1.15E-03
1719	587827.8	4154097	0.01455	1.46E-02	2.96E-02	2.96E-02	2.36E-03	2.36E-03	1.33E-03	1.33E-03
1720	587840.4	4154106	0.01549	1.55E-02	3.15E-02	3.15E-02	2.51E-03	2.51E-03	1.41E-03	1.41E-03
1721	587853	4154115	0.0164	1.64E-02	3.33E-02	3.33E-02	2.66E-03	2.66E-03	1.50E-03	1.50E-03
1722	587865.7	4154124	0.01726	1.73E-02	3.51E-02	3.51E-02	2.80E-03	2.80E-03	1.58E-03	1.58E-03
1723	587878.3	4154133	0.01805	1.81E-02	3.67E-02	3.67E-02	2.92E-03	2.92E-03	1.65E-03	1.65E-03
1724	587612	4154089	0.01051	1.05E-02	2.14E-02	2.14E-02	1.70E-03	1.70E-03	9.60E-04	9.60E-04
1725	587620.9	4154075	0.00952	9.52E-03	1.94E-02	1.94E-02	1.54E-03	1.54E-03	8.69E-04	8.69E-04

1726	587636.1	4154072	0.009418	9.42E-03	1.91E-02	1.91E-02	1.53E-03	1.53E-03	8.60E-04	8.60E-04
1727	587651.4	4154069	0.009337	9.34E-03	1.90E-02	1.90E-02	1.51E-03	1.51E-03	8.53E-04	8.53E-04
1728	587681.8	4154064	0.009279	9.28E-03	1.89E-02	1.89E-02	1.50E-03	1.50E-03	8.47E-04	8.47E-04
1729	587697	4154061	0.009307	9.31E-03	1.89E-02	1.89E-02	1.51E-03	1.51E-03	8.50E-04	8.50E-04
1730	587712.2	4154059	0.009366	9.37E-03	1.90E-02	1.90E-02	1.52E-03	1.52E-03	8.55E-04	8.55E-04
1731	587742.7	4154053	0.009527	9.53E-03	1.94E-02	1.94E-02	1.54E-03	1.54E-03	8.70E-04	8.70E-04
1732	587757.9	4154050	0.00959	9.59E-03	1.95E-02	1.95E-02	1.55E-03	1.55E-03	8.76E-04	8.76E-04
1733	587779.4	4154052	0.01005	1.01E-02	2.04E-02	2.04E-02	1.63E-03	1.63E-03	9.18E-04	9.18E-04
1734	587792.1	4154061	0.01089	1.09E-02	2.21E-02	2.21E-02	1.76E-03	1.76E-03	9.94E-04	9.94E-04
1735	587829.9	4154088	0.01349	1.35E-02	2.74E-02	2.74E-02	2.18E-03	2.18E-03	1.23E-03	1.23E-03
1736	587842.6	4154097	0.01436	1.44E-02	2.92E-02	2.92E-02	2.33E-03	2.33E-03	1.31E-03	1.31E-03
1737	587855.2	4154106	0.01519	1.52E-02	3.09E-02	3.09E-02	2.46E-03	2.46E-03	1.39E-03	1.39E-03
1738	587867.8	4154114	0.01598	1.60E-02	3.25E-02	3.25E-02	2.59E-03	2.59E-03	1.46E-03	1.46E-03
1739	587880.5	4154123	0.01671	1.67E-02	3.40E-02	3.40E-02	2.71E-03	2.71E-03	1.53E-03	1.53E-03
1740	587893.1	4154132	0.01739	1.74E-02	3.53E-02	3.53E-02	2.82E-03	2.82E-03	1.59E-03	1.59E-03
1741	587606.5	4154081	0.009849	9.85E-03	2.00E-02	2.00E-02	1.60E-03	1.60E-03	8.99E-04	8.99E-04
1742	587615.8	4154067	0.008948	8.95E-03	1.82E-02	1.82E-02	1.45E-03	1.45E-03	8.17E-04	8.17E-04
1743	587631.8	4154064	0.008846	8.85E-03	1.80E-02	1.80E-02	1.43E-03	1.43E-03	8.08E-04	8.08E-04
1744	587647.7	4154061	0.008761	8.76E-03	1.78E-02	1.78E-02	1.42E-03	1.42E-03	8.00E-04	8.00E-04
1745	587679.6	4154055	0.008692	8.69E-03	1.77E-02	1.77E-02	1.41E-03	1.41E-03	7.94E-04	7.94E-04
1746	587695.6	4154052	0.008715	8.72E-03	1.77E-02	1.77E-02	1.41E-03	1.41E-03	7.96E-04	7.96E-04
1747	587743.4	4154044	0.00893	8.93E-03	1.82E-02	1.82E-02	1.45E-03	1.45E-03	8.15E-04	8.15E-04
1748	587759.3	4154041	0.008998	9.00E-03	1.83E-02	1.83E-02	1.46E-03	1.46E-03	8.22E-04	8.22E-04
1749	587781.9	4154042	0.009443	9.44E-03	1.92E-02	1.92E-02	1.53E-03	1.53E-03	8.62E-04	8.62E-04
1750	587834.8	4154080	0.01273	1.27E-02	2.59E-02	2.59E-02	2.06E-03	2.06E-03	1.16E-03	1.16E-03
1751	587848	4154089	0.01354	1.35E-02	2.75E-02	2.75E-02	2.19E-03	2.19E-03	1.24E-03	1.24E-03
1752	587861.3	4154099	0.01434	1.43E-02	2.91E-02	2.91E-02	2.32E-03	2.32E-03	1.31E-03	1.31E-03
1753	587874.5	4154108	0.01509	1.51E-02	3.07E-02	3.07E-02	2.44E-03	2.44E-03	1.38E-03	1.38E-03
1754	587887.7	4154117	0.01578	1.58E-02	3.21E-02	3.21E-02	2.56E-03	2.56E-03	1.44E-03	1.44E-03
1755	587901	4154127	0.01641	1.64E-02	3.34E-02	3.34E-02	2.66E-03	2.66E-03	1.50E-03	1.50E-03
1756	587601.1	4154072	0.009254	9.25E-03	1.88E-02	1.88E-02	1.50E-03	1.50E-03	8.45E-04	8.45E-04
1757	587610.4	4154058	0.008431	8.43E-03	1.71E-02	1.71E-02	1.37E-03	1.37E-03	7.70E-04	7.70E-04
1758	587626.3	4154055	0.008334	8.33E-03	1.69E-02	1.69E-02	1.35E-03	1.35E-03	7.61E-04	7.61E-04
1759	587642.2	4154052	0.008249	8.25E-03	1.68E-02	1.68E-02	1.34E-03	1.34E-03	7.53E-04	7.53E-04
1760	587674	4154047	0.008163	8.16E-03	1.66E-02	1.66E-02	1.32E-03	1.32E-03	7.45E-04	7.45E-04
1761	587689.9	4154044	0.008172	8.17E-03	1.66E-02	1.66E-02	1.32E-03	1.32E-03	7.46E-04	7.46E-04
1762	587737.7	4154035	0.008363	8.36E-03	1.70E-02	1.70E-02	1.35E-03	1.35E-03	7.64E-04	7.64E-04
1763	587753.6	4154032	0.008427	8.43E-03	1.71E-02	1.71E-02	1.36E-03	1.36E-03	7.69E-04	7.69E-04
1764	587769.5	4154029	0.008499	8.50E-03	1.73E-02	1.73E-02	1.38E-03	1.38E-03	7.76E-04	7.76E-04
1765	587810.5	4154051	0.01036	1.04E-02	2.11E-02	2.11E-02	1.68E-03	1.68E-03	9.46E-04	9.46E-04
1766	587823.7	4154061	0.01112	1.11E-02	2.26E-02	2.26E-02	1.80E-03	1.80E-03	1.02E-03	1.02E-03
1767	587836.9	4154070	0.01188	1.19E-02	2.41E-02	2.41E-02	1.92E-03	1.92E-03	1.08E-03	1.08E-03
1768	587850.1	4154079	0.01262	1.26E-02	2.57E-02	2.57E-02	2.04E-03	2.04E-03	1.15E-03	1.15E-03
1769	587863.3	4154089	0.01334	1.33E-02	2.71E-02	2.71E-02	2.16E-03	2.16E-03	1.22E-03	1.22E-03
1770	587876.5	4154098	0.01404	1.40E-02	2.85E-02	2.85E-02	2.27E-03	2.27E-03	1.28E-03	1.28E-03
1771	587889.7	4154107	0.01468	1.47E-02	2.98E-02	2.98E-02	2.38E-03	2.38E-03	1.34E-03	1.34E-03
1772	587902.9	4154117	0.01527	1.53E-02	3.10E-02	3.10E-02	2.47E-03	2.47E-03	1.39E-03	1.39E-03
1773	587595.6	4154064	0.008717	8.72E-03	1.77E-02	1.77E-02	1.41E-03	1.41E-03	7.96E-04	7.96E-04
1774	587604.9	4154050	0.007969	7.97E-03	1.62E-02	1.62E-02	1.29E-03	1.29E-03	7.28E-04	7.28E-04
1775	587620.8	4154047	0.007872	7.87E-03	1.60E-02	1.60E-02	1.27E-03	1.27E-03	7.19E-04	7.19E-04
1776	587636.7	4154044	0.007786	7.79E-03	1.58E-02	1.58E-02	1.26E-03	1.26E-03	7.11E-04	7.11E-04
1777	587668.4	4154038	0.007686	7.69E-03	1.56E-02	1.56E-02	1.24E-03	1.24E-03	7.02E-04	7.02E-04
1778	587684.3	4154035	0.007684	7.68E-03	1.56E-02	1.56E-02	1.24E-03	1.24E-03	7.02E-04	7.02E-04
1779	587732	4154027	0.007841	7.84E-03	1.59E-02	1.59E-02	1.27E-03	1.27E-03	7.16E-04	7.16E-04
1780	587747.8	4154024	0.007913	7.91E-03	1.61E-02	1.61E-02	1.28E-03	1.28E-03	7.22E-04	7.22E-04
1781	587763.7	4154021	0.007984	7.98E-03	1.62E-02	1.62E-02	1.29E-03	1.29E-03	7.29E-04	7.29E-04
1782	587799.4	4154032	0.009028	9.03E-03	1.84E-02	1.84E-02	1.46E-03	1.46E-03	8.24E-04	8.24E-04
1783	587812.6	4154042	0.009719	9.72E-03	1.98E-02	1.98E-02	1.57E-03	1.57E-03	8.87E-04	8.87E-04
1784	587825.7	4154051	0.01042	1.04E-02	2.12E-02	2.12E-02	1.69E-03	1.69E-03	9.51E-04	9.51E-04
1785	587852.1	4154069	0.01179	1.18E-02	2.40E-02	2.40E-02	1.91E-03	1.91E-03	1.08E-03	1.08E-03
1786	587865.3	4154079	0.01245	1.25E-02	2.53E-02	2.53E-02	2.02E-03	2.02E-03	1.14E-03	1.14E-03
1787	587878.4	4154088	0.01308	1.31E-02	2.66E-02	2.66E-02	2.12E-03	2.12E-03	1.19E-03	1.19E-03
1788	587891.6	4154097	0.01369	1.37E-02	2.78E-02	2.78E-02	2.22E-03	2.22E-03	1.25E-03	1.25E-03
1789	587904.8	4154107	0.01425	1.43E-02	2.90E-02	2.90E-02	2.31E-03	2.31E-03	1.30E-03	1.30E-03
1790	587918	4154116	0.01475	1.48E-02	3.00E-02	3.00E-02	2.39E-03	2.39E-03	1.35E-03	1.35E-03
1791	587590.2	4154056	0.008231	8.23E-03	1.67E-02	1.67E-02	1.33E-03	1.33E-03	7.52E-04	7.52E-04
1792	587599.5	4154041	0.00755	7.55E-03	1.53E-02	1.53E-02	1.22E-03	1.22E-03	6.89E-04	6.89E-04
1793	587615.3	4154039	0.007453	7.45E-03	1.51E-02	1.51E-02	1.21E-03	1.21E-03	6.80E-04	6.80E-04
1794	587631.2	4154036	0.007367	7.37E-03	1.50E-02	1.50E-02	1.19E-03	1.19E-03	6.73E-04	6.73E-04
1795	587662.9	4154030	0.007256	7.26E-03	1.47E-02	1.47E-02	1.18E-03	1.18E-03	6.63E-04	6.63E-04
1796	587678.7	4154027	0.007243	7.24E-03	1.47E-02	1.47E-02	1.17E-03	1.17E-03	6.61E-04	6.61E-04
1797	587726.3	4154018	0.007367	7.37E-03	1.50E-02	1.50E-02	1.19E-03	1.19E-03	6.73E-04	6.73E-04

1798	587742.1	4154016	0.007442	7.44E-03	1.51E-02	1.51E-02	1.21E-03	1.21E-03	6.79E-04	6.79E-04
1799	587758	4154013	0.007515	7.52E-03	1.53E-02	1.53E-02	1.22E-03	1.22E-03	6.86E-04	6.86E-04
1800	587788.4	4154013	0.007892	7.89E-03	1.60E-02	1.60E-02	1.28E-03	1.28E-03	7.21E-04	7.21E-04
1801	587801.5	4154022	0.008505	8.51E-03	1.73E-02	1.73E-02	1.38E-03	1.38E-03	7.77E-04	7.77E-04
1802	587814.7	4154032	0.009139	9.14E-03	1.86E-02	1.86E-02	1.48E-03	1.48E-03	8.34E-04	8.34E-04
1803	587827.8	4154041	0.009784	9.78E-03	1.99E-02	1.99E-02	1.58E-03	1.58E-03	8.93E-04	8.93E-04
1804	587841	4154050	0.01042	1.04E-02	2.12E-02	2.12E-02	1.69E-03	1.69E-03	9.51E-04	9.51E-04
1805	587854.1	4154060	0.01105	1.11E-02	2.25E-02	2.25E-02	1.79E-03	1.79E-03	1.01E-03	1.01E-03
1806	587867.3	4154069	0.01166	1.17E-02	2.37E-02	2.37E-02	1.89E-03	1.89E-03	1.06E-03	1.06E-03
1807	587880.4	4154078	0.01224	1.22E-02	2.49E-02	2.49E-02	1.98E-03	1.98E-03	1.12E-03	1.12E-03
1808	587893.6	4154087	0.01278	1.28E-02	2.60E-02	2.60E-02	2.07E-03	2.07E-03	1.17E-03	1.17E-03
1809	587906.8	4154097	0.01331	1.33E-02	2.71E-02	2.71E-02	2.16E-03	2.16E-03	1.22E-03	1.22E-03
1810	587919.9	4154106	0.01379	1.38E-02	2.80E-02	2.80E-02	2.23E-03	2.23E-03	1.26E-03	1.26E-03
1811	587584.7	4154047	0.007794	7.79E-03	1.58E-02	1.58E-02	1.26E-03	1.26E-03	7.12E-04	7.12E-04
1812	587594	4154033	0.007165	7.17E-03	1.46E-02	1.46E-02	1.16E-03	1.16E-03	6.54E-04	6.54E-04
1813	587609.8	4154030	0.007071	7.07E-03	1.44E-02	1.44E-02	1.15E-03	1.15E-03	6.46E-04	6.46E-04
1814	587625.7	4154027	0.006984	6.98E-03	1.42E-02	1.42E-02	1.13E-03	1.13E-03	6.38E-04	6.38E-04
1815	587657.3	4154022	0.006866	6.87E-03	1.40E-02	1.40E-02	1.11E-03	1.11E-03	6.27E-04	6.27E-04
1816	587673.1	4154019	0.006845	6.85E-03	1.39E-02	1.39E-02	1.11E-03	1.11E-03	6.25E-04	6.25E-04
1817	587720.6	4154010	0.006936	6.94E-03	1.41E-02	1.41E-02	1.12E-03	1.12E-03	6.33E-04	6.33E-04
1818	587736.5	4154007	0.007004	7.00E-03	1.42E-02	1.42E-02	1.13E-03	1.13E-03	6.39E-04	6.39E-04
1819	587752.3	4154004	0.007077	7.08E-03	1.44E-02	1.44E-02	1.15E-03	1.15E-03	6.46E-04	6.46E-04
1820	587790.5	4154003	0.007462	7.46E-03	1.52E-02	1.52E-02	1.21E-03	1.21E-03	6.81E-04	6.81E-04
1821	587803.6	4154013	0.008027	8.03E-03	1.63E-02	1.63E-02	1.30E-03	1.30E-03	7.33E-04	7.33E-04
1822	587816.8	4154022	0.008612	8.61E-03	1.75E-02	1.75E-02	1.39E-03	1.39E-03	7.86E-04	7.86E-04
1823	587829.9	4154031	0.009206	9.21E-03	1.87E-02	1.87E-02	1.49E-03	1.49E-03	8.41E-04	8.41E-04
1824	587843	4154040	0.009799	9.80E-03	1.99E-02	1.99E-02	1.59E-03	1.59E-03	8.95E-04	8.95E-04
1825	587869.3	4154059	0.01094	1.09E-02	2.22E-02	2.22E-02	1.77E-03	1.77E-03	9.99E-04	9.99E-04
1826	587882.4	4154068	0.01147	1.15E-02	2.33E-02	2.33E-02	1.86E-03	1.86E-03	1.05E-03	1.05E-03
1827	587895.6	4154078	0.01198	1.20E-02	2.44E-02	2.44E-02	1.94E-03	1.94E-03	1.09E-03	1.09E-03
1828	587908.7	4154087	0.01246	1.25E-02	2.53E-02	2.53E-02	2.02E-03	2.02E-03	1.14E-03	1.14E-03
1829	587921.9	4154096	0.01292	1.29E-02	2.63E-02	2.63E-02	2.09E-03	2.09E-03	1.18E-03	1.18E-03
1830	587935	4154105	0.01333	1.33E-02	2.71E-02	2.71E-02	2.16E-03	2.16E-03	1.22E-03	1.22E-03
1831	587579.3	4154039	0.007392	7.39E-03	1.50E-02	1.50E-02	1.20E-03	1.20E-03	6.75E-04	6.75E-04
1832	587588.6	4154025	0.006811	6.81E-03	1.38E-02	1.38E-02	1.10E-03	1.10E-03	6.22E-04	6.22E-04
1833	587604.4	4154022	0.006721	6.72E-03	1.37E-02	1.37E-02	1.09E-03	1.09E-03	6.14E-04	6.14E-04
1834	587620.2	4154019	0.006634	6.63E-03	1.35E-02	1.35E-02	1.07E-03	1.07E-03	6.06E-04	6.06E-04
1835	587651.8	4154013	0.006511	6.51E-03	1.32E-02	1.32E-02	1.05E-03	1.05E-03	5.94E-04	5.94E-04
1836	587667.6	4154010	0.006483	6.48E-03	1.32E-02	1.32E-02	1.05E-03	1.05E-03	5.92E-04	5.92E-04
1837	587715	4154002	0.006545	6.55E-03	1.33E-02	1.33E-02	1.06E-03	1.06E-03	5.98E-04	5.98E-04
1838	587730.8	4153999	0.006604	6.60E-03	1.34E-02	1.34E-02	1.07E-03	1.07E-03	6.03E-04	6.03E-04
1839	587746.6	4153996	0.006672	6.67E-03	1.36E-02	1.36E-02	1.08E-03	1.08E-03	6.09E-04	6.09E-04
1840	587778.2	4153990	0.0068	6.80E-03	1.38E-02	1.38E-02	1.10E-03	1.10E-03	6.21E-04	6.21E-04
1841	587792.7	4153994	0.007071	7.07E-03	1.44E-02	1.44E-02	1.15E-03	1.15E-03	6.46E-04	6.46E-04
1842	587805.8	4154003	0.007591	7.59E-03	1.54E-02	1.54E-02	1.23E-03	1.23E-03	6.93E-04	6.93E-04
1843	587818.9	4154012	0.008132	8.13E-03	1.65E-02	1.65E-02	1.32E-03	1.32E-03	7.42E-04	7.42E-04
1844	587832	4154021	0.008681	8.68E-03	1.76E-02	1.76E-02	1.41E-03	1.41E-03	7.93E-04	7.93E-04
1845	587845.1	4154031	0.009229	9.23E-03	1.88E-02	1.88E-02	1.49E-03	1.49E-03	8.43E-04	8.43E-04
1846	587858.2	4154040	0.009766	9.77E-03	1.99E-02	1.99E-02	1.58E-03	1.58E-03	8.92E-04	8.92E-04
1847	587871.4	4154049	0.01029	1.03E-02	2.09E-02	2.09E-02	1.67E-03	1.67E-03	9.40E-04	9.40E-04
1848	587884.5	4154058	0.01078	1.08E-02	2.19E-02	2.19E-02	1.75E-03	1.75E-03	9.84E-04	9.84E-04
1849	587897.6	4154068	0.01126	1.13E-02	2.29E-02	2.29E-02	1.82E-03	1.82E-03	1.03E-03	1.03E-03
1850	587910.7	4154077	0.0117	1.17E-02	2.38E-02	2.38E-02	1.89E-03	1.89E-03	1.07E-03	1.07E-03
1851	587923.8	4154086	0.01212	1.21E-02	2.46E-02	2.46E-02	1.96E-03	1.96E-03	1.11E-03	1.11E-03
1852	587936.9	4154096	0.01252	1.25E-02	2.54E-02	2.54E-02	2.03E-03	2.03E-03	1.14E-03	1.14E-03
1853	587573.9	4154030	0.007021	7.02E-03	1.43E-02	1.43E-02	1.14E-03	1.14E-03	6.41E-04	6.41E-04
1854	587583.1	4154016	0.006485	6.49E-03	1.32E-02	1.32E-02	1.05E-03	1.05E-03	5.92E-04	5.92E-04
1855	587598.9	4154013	0.006397	6.40E-03	1.30E-02	1.30E-02	1.04E-03	1.04E-03	5.84E-04	5.84E-04
1856	587614.7	4154011	0.006313	6.31E-03	1.28E-02	1.28E-02	1.02E-03	1.02E-03	5.76E-04	5.76E-04
1857	587646.2	4154005	0.006186	6.19E-03	1.26E-02	1.26E-02	1.00E-03	1.00E-03	5.65E-04	5.65E-04
1858	587662	4154002	0.006153	6.15E-03	1.25E-02	1.25E-02	9.97E-04	9.97E-04	5.62E-04	5.62E-04
1859	587709.4	4153993	0.006188	6.19E-03	1.26E-02	1.26E-02	1.00E-03	1.00E-03	5.65E-04	5.65E-04
1860	587725.1	4153991	0.006238	6.24E-03	1.27E-02	1.27E-02	1.01E-03	1.01E-03	5.70E-04	5.70E-04
1861	587740.9	4153988	0.0063	6.30E-03	1.28E-02	1.28E-02	1.02E-03	1.02E-03	5.75E-04	5.75E-04
1862	587772.5	4153982	0.00643	6.43E-03	1.31E-02	1.31E-02	1.04E-03	1.04E-03	5.87E-04	5.87E-04
1863	587794.8	4153984	0.006718	6.72E-03	1.37E-02	1.37E-02	1.09E-03	1.09E-03	6.13E-04	6.13E-04
1864	587807.9	4153993	0.007193	7.19E-03	1.46E-02	1.46E-02	1.16E-03	1.16E-03	6.57E-04	6.57E-04
1865	587821	4154002	0.007691	7.69E-03	1.56E-02	1.56E-02	1.25E-03	1.25E-03	7.02E-04	7.02E-04
1866	587834.1	4154012	0.008201	8.20E-03	1.67E-02	1.67E-02	1.33E-03	1.33E-03	7.49E-04	7.49E-04
1867	587847.2	4154021	0.008709	8.71E-03	1.77E-02	1.77E-02	1.41E-03	1.41E-03	7.95E-04	7.95E-04
1868	587860.3	4154030	0.009209	9.21E-03	1.87E-02	1.87E-02	1.49E-03	1.49E-03	8.41E-04	8.41E-04
1869	587886.5	4154049	0.01015	1.02E-02	2.06E-02	2.06E-02	1.64E-03	1.64E-03	9.27E-04	9.27E-04

1870	587899.6	4154058	0.01059	1.06E-02	2.15E-02	2.15E-02	1.72E-03	1.72E-03	9.67E-04	9.67E-04
1871	587912.7	4154067	0.01101	1.10E-02	2.24E-02	2.24E-02	1.78E-03	1.78E-03	1.01E-03	1.01E-03
1872	587925.8	4154076	0.0114	1.14E-02	2.32E-02	2.32E-02	1.85E-03	1.85E-03	1.04E-03	1.04E-03
1873	587938.9	4154086	0.01177	1.18E-02	2.39E-02	2.39E-02	1.91E-03	1.91E-03	1.07E-03	1.07E-03
1874	587952	4154095	0.01211	1.21E-02	2.46E-02	2.46E-02	1.96E-03	1.96E-03	1.11E-03	1.11E-03
1875	587568.4	4154022	0.006683	6.68E-03	1.36E-02	1.36E-02	1.08E-03	1.08E-03	6.10E-04	6.10E-04
1876	587577.6	4154008	0.006185	6.19E-03	1.26E-02	1.26E-02	1.00E-03	1.00E-03	5.65E-04	5.65E-04
1877	587593.4	4154005	0.0061	6.10E-03	1.24E-02	1.24E-02	9.88E-04	9.88E-04	5.57E-04	5.57E-04
1878	587609.2	4154002	0.006018	6.02E-03	1.22E-02	1.22E-02	9.75E-04	9.75E-04	5.49E-04	5.49E-04
1879	587640.7	4153996	0.005889	5.89E-03	1.20E-02	1.20E-02	9.54E-04	9.54E-04	5.38E-04	5.38E-04
1880	587656.5	4153994	0.005851	5.85E-03	1.19E-02	1.19E-02	9.48E-04	9.48E-04	5.34E-04	5.34E-04
1881	587703.7	4153985	0.005862	5.86E-03	1.19E-02	1.19E-02	9.49E-04	9.49E-04	5.35E-04	5.35E-04
1882	587719.5	4153982	0.005904	5.90E-03	1.20E-02	1.20E-02	9.56E-04	9.56E-04	5.39E-04	5.39E-04
1883	587735.3	4153979	0.005958	5.96E-03	1.21E-02	1.21E-02	9.65E-04	9.65E-04	5.44E-04	5.44E-04
1884	587766.8	4153974	0.006084	6.08E-03	1.24E-02	1.24E-02	9.85E-04	9.85E-04	5.55E-04	5.55E-04
1885	587782.6	4153971	0.006142	6.14E-03	1.25E-02	1.25E-02	9.95E-04	9.95E-04	5.61E-04	5.61E-04
1886	587797	4153974	0.006385	6.39E-03	1.30E-02	1.30E-02	1.03E-03	1.03E-03	5.83E-04	5.83E-04
1887	587810.1	4153983	0.006833	6.83E-03	1.39E-02	1.39E-02	1.11E-03	1.11E-03	6.24E-04	6.24E-04
1888	587823.1	4153993	0.007289	7.29E-03	1.48E-02	1.48E-02	1.18E-03	1.18E-03	6.66E-04	6.66E-04
1889	587836.2	4154002	0.00776	7.76E-03	1.58E-02	1.58E-02	1.26E-03	1.26E-03	7.09E-04	7.09E-04
1890	587849.3	4154011	0.008234	8.23E-03	1.67E-02	1.67E-02	1.33E-03	1.33E-03	7.52E-04	7.52E-04
1891	587862.4	4154020	0.008699	8.70E-03	1.77E-02	1.77E-02	1.41E-03	1.41E-03	7.94E-04	7.94E-04
1892	587875.5	4154029	0.009149	9.15E-03	1.86E-02	1.86E-02	1.48E-03	1.48E-03	8.35E-04	8.35E-04
1893	587888.5	4154039	0.009581	9.58E-03	1.95E-02	1.95E-02	1.55E-03	1.55E-03	8.75E-04	8.75E-04
1894	587901.6	4154048	0.009991	9.99E-03	2.03E-02	2.03E-02	1.62E-03	1.62E-03	9.12E-04	9.12E-04
1895	587914.7	4154057	0.01038	1.04E-02	2.11E-02	2.11E-02	1.68E-03	1.68E-03	9.48E-04	9.48E-04
1896	587927.8	4154066	0.01075	1.08E-02	2.19E-02	2.19E-02	1.74E-03	1.74E-03	9.82E-04	9.82E-04
1897	587940.9	4154076	0.01109	1.11E-02	2.25E-02	2.25E-02	1.80E-03	1.80E-03	1.01E-03	1.01E-03
1898	587953.9	4154085	0.01141	1.14E-02	2.32E-02	2.32E-02	1.85E-03	1.85E-03	1.04E-03	1.04E-03
1899	587563	4154014	0.006372	6.37E-03	1.30E-02	1.30E-02	1.03E-03	1.03E-03	5.82E-04	5.82E-04
1900	587572.2	4153999	0.005907	5.91E-03	1.20E-02	1.20E-02	9.57E-04	9.57E-04	5.39E-04	5.39E-04
1901	587587.9	4153997	0.005825	5.83E-03	1.18E-02	1.18E-02	9.43E-04	9.43E-04	5.32E-04	5.32E-04
1902	587603.7	4153994	0.005745	5.75E-03	1.17E-02	1.17E-02	9.30E-04	9.30E-04	5.25E-04	5.25E-04
1903	587635.2	4153988	0.005616	5.62E-03	1.14E-02	1.14E-02	9.10E-04	9.10E-04	5.13E-04	5.13E-04
1904	587650.9	4153985	0.005574	5.57E-03	1.13E-02	1.13E-02	9.03E-04	9.03E-04	5.09E-04	5.09E-04
1905	587713.9	4153974	0.005598	5.60E-03	1.14E-02	1.14E-02	9.07E-04	9.07E-04	5.11E-04	5.11E-04
1906	587729.6	4153971	0.005645	5.65E-03	1.15E-02	1.15E-02	9.14E-04	9.14E-04	5.15E-04	5.15E-04
1907	587761.1	4153965	0.005762	5.76E-03	1.17E-02	1.17E-02	9.33E-04	9.33E-04	5.26E-04	5.26E-04
1908	587776.9	4153962	0.005821	5.82E-03	1.18E-02	1.18E-02	9.43E-04	9.43E-04	5.31E-04	5.31E-04
1909	587799.1	4153964	0.006075	6.08E-03	1.23E-02	1.23E-02	9.84E-04	9.84E-04	5.55E-04	5.55E-04
1910	587812.2	4153973	0.006494	6.49E-03	1.32E-02	1.32E-02	1.05E-03	1.05E-03	5.93E-04	5.93E-04
1911	587825.3	4153983	0.006922	6.92E-03	1.41E-02	1.41E-02	1.12E-03	1.12E-03	6.32E-04	6.32E-04
1912	587838.3	4153992	0.007356	7.36E-03	1.50E-02	1.50E-02	1.19E-03	1.19E-03	6.72E-04	6.72E-04
1913	587851.4	4154001	0.007797	7.80E-03	1.58E-02	1.58E-02	1.26E-03	1.26E-03	7.12E-04	7.12E-04
1914	587864.5	4154010	0.008231	8.23E-03	1.67E-02	1.67E-02	1.33E-03	1.33E-03	7.52E-04	7.52E-04
1915	587877.5	4154020	0.008652	8.65E-03	1.76E-02	1.76E-02	1.40E-03	1.40E-03	7.90E-04	7.90E-04
1916	587903.6	4154038	0.00944	9.44E-03	1.92E-02	1.92E-02	1.53E-03	1.53E-03	8.62E-04	8.62E-04
1917	587916.7	4154047	0.009804	9.80E-03	1.99E-02	1.99E-02	1.59E-03	1.59E-03	8.95E-04	8.95E-04
1918	587929.8	4154057	0.01015	1.02E-02	2.06E-02	2.06E-02	1.64E-03	1.64E-03	9.27E-04	9.27E-04
1919	587942.8	4154066	0.01047	1.05E-02	2.13E-02	2.13E-02	1.70E-03	1.70E-03	9.56E-04	9.56E-04
1920	587955.9	4154075	0.01078	1.08E-02	2.19E-02	2.19E-02	1.75E-03	1.75E-03	9.84E-04	9.84E-04
1921	587969	4154084	0.01105	1.11E-02	2.25E-02	2.25E-02	1.79E-03	1.79E-03	1.01E-03	1.01E-03
1922	587557.5	4154005	0.006082	6.08E-03	1.24E-02	1.24E-02	9.85E-04	9.85E-04	5.55E-04	5.55E-04
1923	587566.7	4153991	0.005648	5.65E-03	1.15E-02	1.15E-02	9.15E-04	9.15E-04	5.16E-04	5.16E-04
1924	587582.5	4153988	0.00557	5.57E-03	1.13E-02	1.13E-02	9.02E-04	9.02E-04	5.09E-04	5.09E-04
1925	587598.2	4153985	0.005493	5.49E-03	1.12E-02	1.12E-02	8.90E-04	8.90E-04	5.02E-04	5.02E-04
1926	587629.6	4153980	0.005365	5.37E-03	1.09E-02	1.09E-02	8.69E-04	8.69E-04	4.90E-04	4.90E-04
1927	587645.4	4153977	0.00532	5.32E-03	1.08E-02	1.08E-02	8.62E-04	8.62E-04	4.86E-04	4.86E-04
1928	587755.4	4153957	0.005465	5.47E-03	1.11E-02	1.11E-02	8.85E-04	8.85E-04	4.99E-04	4.99E-04
1929	587771.2	4153954	0.005522	5.52E-03	1.12E-02	1.12E-02	8.94E-04	8.94E-04	5.04E-04	5.04E-04
1930	587786.9	4153951	0.005576	5.58E-03	1.13E-02	1.13E-02	9.03E-04	9.03E-04	5.09E-04	5.09E-04
1931	587801.3	4153954	0.005788	5.79E-03	1.18E-02	1.18E-02	9.37E-04	9.37E-04	5.28E-04	5.28E-04
1932	587814.3	4153964	0.006179	6.18E-03	1.26E-02	1.26E-02	1.00E-03	1.00E-03	5.64E-04	5.64E-04
1933	587827.4	4153973	0.006582	6.58E-03	1.34E-02	1.34E-02	1.07E-03	1.07E-03	6.01E-04	6.01E-04
1934	587840.4	4153982	0.006984	6.98E-03	1.42E-02	1.42E-02	1.13E-03	1.13E-03	6.38E-04	6.38E-04
1935	587853.5	4153991	0.007395	7.40E-03	1.50E-02	1.50E-02	1.20E-03	1.20E-03	6.75E-04	6.75E-04
1936	587866.5	4154001	0.007801	7.80E-03	1.59E-02	1.59E-02	1.26E-03	1.26E-03	7.12E-04	7.12E-04
1937	587879.6	4154010	0.008195	8.20E-03	1.67E-02	1.67E-02	1.33E-03	1.33E-03	7.48E-04	7.48E-04
1938	587892.6	4154019	0.008574	8.57E-03	1.74E-02	1.74E-02	1.39E-03	1.39E-03	7.83E-04	7.83E-04
1939	587905.7	4154028	0.008934	8.93E-03	1.82E-02	1.82E-02	1.45E-03	1.45E-03	8.16E-04	8.16E-04
1940	587918.7	4154037	0.009276	9.28E-03	1.89E-02	1.89E-02	1.50E-03	1.50E-03	8.47E-04	8.47E-04
1941	587931.8	4154047	0.009599	9.60E-03	1.95E-02	1.95E-02	1.55E-03	1.55E-03	8.76E-04	8.76E-04

1942	587944.8	4154056	0.009904	9.90E-03		2.01E-02	2.01E-02		1.60E-03	1.60E-03		9.04E-04	9.04E-04	
1943	587957.9	4154065	0.01019	1.02E-02		2.07E-02	2.07E-02		1.65E-03	1.65E-03		9.30E-04	9.30E-04	
1944	587970.9	4154074	0.01045	1.05E-02		2.12E-02	2.12E-02		1.69E-03	1.69E-03		9.54E-04	9.54E-04	
1945	587552.1	4153997	0.005812	5.81E-03		1.18E-02	1.18E-02		9.41E-04	9.41E-04		5.31E-04	5.31E-04	

			UnMitigated				T3				T3L3				T4			
						1.13E-06				1.49E-06				2.35E-07				1.44E-07
			Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total
1	587586.6	4154356	7.24E-08	1.72E-07	0.00E+00	2.44E-07	1.47E-07	1.74E-07	0.00E+00	3.21E-07	1.17E-08	3.91E-08	0.00E+00	5.08E-08	6.61E-09	2.45E-08	0.00E+00	3.11E-08
2	587592.2	4154364	7.63E-08	1.81E-07	0.00E+00	2.57E-07	1.55E-07	1.83E-07	0.00E+00	3.38E-07	1.24E-08	4.12E-08	0.00E+00	5.35E-08	6.96E-09	2.58E-08	0.00E+00	3.27E-08
3	587597.8	4154372	7.83E-08	1.86E-07	0.00E+00	2.64E-07	1.59E-07	1.88E-07	0.00E+00	3.47E-07	1.27E-08	4.23E-08	0.00E+00	5.50E-08	7.15E-09	2.65E-08	0.00E+00	3.36E-08
4	587603.4	4154381	7.87E-08	1.87E-07	0.00E+00	2.66E-07	1.60E-07	1.89E-07	0.00E+00	3.49E-07	1.28E-08	4.25E-08	0.00E+00	5.53E-08	7.19E-09	2.66E-08	0.00E+00	3.38E-08
5	587609.1	4154389	7.79E-08	1.85E-07	0.00E+00	2.63E-07	1.58E-07	1.87E-07	0.00E+00	3.45E-07	1.26E-08	4.20E-08	0.00E+00	5.47E-08	7.11E-09	2.63E-08	0.00E+00	3.34E-08
6	587614.7	4154397	7.55E-08	1.79E-07	0.00E+00	2.55E-07	1.53E-07	1.81E-07	0.00E+00	3.35E-07	1.22E-08	4.08E-08	0.00E+00	5.30E-08	6.89E-09	2.55E-08	0.00E+00	3.24E-08
7	587620.3	4154405	7.14E-08	1.70E-07	0.00E+00	2.41E-07	1.45E-07	1.72E-07	0.00E+00	3.17E-07	1.16E-08	3.86E-08	0.00E+00	5.01E-08	6.52E-09	2.41E-08	0.00E+00	3.07E-08
8	587625.9	4154413	6.58E-08	1.56E-07	0.00E+00	2.22E-07	1.34E-07	1.58E-07	0.00E+00	2.92E-07	1.07E-08	3.55E-08	0.00E+00	4.62E-08	6.01E-09	2.22E-08	0.00E+00	2.83E-08
9	587631.6	4154422	5.85E-08	1.39E-07	0.00E+00	1.97E-07	1.19E-07	1.40E-07	0.00E+00	2.59E-07	9.47E-09	3.16E-08	0.00E+00	4.10E-08	5.34E-09	1.98E-08	0.00E+00	2.51E-08
10	587578.3	4154362	5.67E-08	1.35E-07	0.00E+00	1.91E-07	1.15E-07	1.36E-07	0.00E+00	2.51E-07	9.18E-09	3.06E-08	0.00E+00	3.98E-08	5.18E-09	1.92E-08	0.00E+00	2.43E-08
11	587583.9	4154370	5.90E-08	1.40E-07	0.00E+00	1.99E-07	1.20E-07	1.42E-07	0.00E+00	2.62E-07	9.56E-09	3.19E-08	0.00E+00	4.14E-08	5.39E-09	2.00E-08	0.00E+00	2.53E-08
12	587589.6	4154378	6.02E-08	1.43E-07	0.00E+00	2.03E-07	1.22E-07	1.45E-07	0.00E+00	2.67E-07	9.75E-09	3.25E-08	0.00E+00	4.22E-08	5.50E-09	2.03E-08	0.00E+00	2.58E-08
13	587595.2	4154386	6.02E-08	1.43E-07	0.00E+00	2.03E-07	1.22E-07	1.45E-07	0.00E+00	2.67E-07	9.75E-09	3.25E-08	0.00E+00	4.22E-08	5.49E-09	2.03E-08	0.00E+00	2.58E-08
14	587600.8	4154394	5.90E-08	1.40E-07	0.00E+00	1.99E-07	1.20E-07	1.42E-07	0.00E+00	2.62E-07	9.56E-09	3.19E-08	0.00E+00	4.14E-08	5.39E-09	2.00E-08	0.00E+00	2.54E-08
15	587606.4	4154403	5.70E-08	1.35E-07	0.00E+00	1.92E-07	1.16E-07	1.37E-07	0.00E+00	2.53E-07	9.23E-09	3.08E-08	0.00E+00	4.00E-08	5.21E-09	1.93E-08	0.00E+00	2.45E-08
16	587612.1	4154411	5.40E-08	1.28E-07	0.00E+00	1.82E-07	1.10E-07	1.30E-07	0.00E+00	2.39E-07	8.75E-09	2.91E-08	0.00E+00	3.79E-08	4.93E-09	1.83E-08	0.00E+00	2.32E-08
17	587617.7	4154419	5.00E-08	1.19E-07	0.00E+00	1.69E-07	1.02E-07	1.20E-07	0.00E+00	2.22E-07	8.10E-09	2.70E-08	0.00E+00	3.51E-08	4.56E-09	1.69E-08	0.00E+00	2.15E-08
18	587623.3	4154427	4.51E-08	1.07E-07	0.00E+00	1.52E-07	9.16E-08	1.08E-07	0.00E+00	2.00E-07	7.30E-09	2.43E-08	0.00E+00	3.16E-08	4.12E-09	1.52E-08	0.00E+00	1.94E-08
19	587570.1	4154367	4.57E-08	1.08E-07	0.00E+00	1.54E-07	9.28E-08	1.10E-07	0.00E+00	2.03E-07	7.40E-09	2.47E-08	0.00E+00	3.21E-08	4.17E-09	1.54E-08	0.00E+00	1.96E-08
20	587575.7	4154375	4.71E-08	1.12E-07	0.00E+00	1.59E-07	9.58E-08	1.13E-07	0.00E+00	2.09E-07	7.63E-09	2.54E-08	0.00E+00	3.31E-08	4.30E-09	1.59E-08	0.00E+00	2.02E-08
21	587581.3	4154384	4.78E-08	1.13E-07	0.00E+00	1.61E-07	9.71E-08	1.15E-07	0.00E+00	2.12E-07	7.74E-09	2.58E-08	0.00E+00	3.35E-08	4.36E-09	1.62E-08	0.00E+00	2.05E-08
22	587586.9	4154392	4.76E-08	1.13E-07	0.00E+00	1.61E-07	9.67E-08	1.14E-07	0.00E+00	2.11E-07	7.71E-09	2.57E-08	0.00E+00	3.34E-08	4.34E-09	1.61E-08	0.00E+00	2.04E-08
23	587592.6	4154400	4.66E-08	1.11E-07	0.00E+00	1.57E-07	9.48E-08	1.12E-07	0.00E+00	2.07E-07	7.55E-09	2.52E-08	0.00E+00	3.27E-08	4.26E-09	1.58E-08	0.00E+00	2.00E-08
24	587598.2	4154408	4.50E-08	1.07E-07	0.00E+00	1.52E-07	9.15E-08	1.08E-07	0.00E+00	2.00E-07	7.29E-09	2.43E-08	0.00E+00	3.16E-08	4.11E-09	1.52E-08	0.00E+00	1.93E-08
25	587603.8	4154416	4.27E-08	1.01E-07	0.00E+00	1.44E-07	8.69E-08	1.03E-07	0.00E+00	1.90E-07	6.92E-09	2.31E-08	0.00E+00	3.00E-08	3.90E-09	1.44E-08	0.00E+00	1.84E-08
26	587609.4	4154425	3.98E-08	9.45E-08	0.00E+00	1.34E-07	8.09E-08	9.56E-08	0.00E+00	1.77E-07	6.45E-09	2.15E-08	0.00E+00	2.79E-08	3.63E-09	1.35E-08	0.00E+00	1.71E-08
27	587615.1	4154433	3.64E-08	8.64E-08	0.00E+00	1.23E-07	7.40E-08	8.74E-08	0.00E+00	1.61E-07	5.89E-09	1.96E-08	0.00E+00	2.55E-08	3.32E-09	1.23E-08	0.00E+00	1.56E-08
28	587556.2	4154365	3.63E-08	8.61E-08	0.00E+00	1.22E-07	7.37E-08	8.71E-08	0.00E+00	1.61E-07	5.87E-09	1.96E-08	0.00E+00	2.55E-08	3.31E-09	1.23E-08	0.00E+00	1.56E-08
29	587561.8	4154373	3.76E-08	8.93E-08	0.00E+00	1.27E-07	7.65E-08	9.04E-08	0.00E+00	1.67E-07	6.09E-09	2.03E-08	0.00E+00	2.64E-08	3.43E-09	1.27E-08	0.00E+00	1.62E-08
30	587567.4	4154381	3.86E-08	9.15E-08	0.00E+00	1.30E-07	7.84E-08	9.26E-08	0.00E+00	1.71E-07	6.24E-09	2.08E-08	0.00E+00	2.71E-08	3.52E-09	1.30E-08	0.00E+00	1.66E-08
31	587573.1	4154389	3.90E-08	9.24E-08	0.00E+00	1.31E-07	7.92E-08	9.36E-08	0.00E+00	1.73E-07	6.31E-09	2.10E-08	0.00E+00	2.73E-08	3.56E-09	1.32E-08	0.00E+00	1.67E-08
32	587578.7	4154397	3.87E-08	9.19E-08	0.00E+00	1.31E-07	7.87E-08	9.30E-08	0.00E+00	1.72E-07	6.27E-09	2.09E-08	0.00E+00	2.72E-08	3.53E-09	1.31E-08	0.00E+00	1.66E-08
33	587584.3	4154406	3.79E-08	9.00E-08	0.00E+00	1.28E-07	7.71E-08	9.11E-08	0.00E+00	1.68E-07	6.15E-09	2.05E-08	0.00E+00	2.66E-08	3.46E-09	1.28E-08	0.00E+00	1.63E-08
34	587589.9	4154414	3.67E-08	8.71E-08	0.00E+00	1.24E-07	7.46E-08	8.81E-08	0.00E+00	1.63E-07	5.94E-09	1.98E-08	0.00E+00	2.58E-08	3.35E-09	1.24E-08	0.00E+00	1.58E-08
35	587595.6	4154422	3.49E-08	8.29E-08	0.00E+00	1.18E-07	7.10E-08	8.39E-08	0.00E+00	1.55E-07	5.66E-09	1.89E-08	0.00E+00	2.45E-08	3.19E-09	1.18E-08	0.00E+00	1.50E-08
36	587601.2	4154430	3.28E-08	7.78E-08	0.00E+00	1.11E-07	6.66E-08	7.87E-08	0.00E+00	1.45E-07	5.31E-09	1.77E-08	0.00E+00	2.30E-08	2.99E-09	1.11E-08	0.00E+00	1.41E-08
37	587606.8	4154439	3.03E-08	7.19E-08	0.00E+00	1.02E-07	6.15E-08	7.27E-08	0.00E+00	1.34E-07	4.90E-09	1.63E-08	0.00E+00	2.13E-08	2.76E-09	1.02E-08	0.00E+00	1.30E-08
38	587547.9	4154370	3.07E-08	7.29E-08	0.00E+00	1.04E-07	6.24E-08	7.38E-08	0.00E+00	1.36E-07	4.97E-09	1.66E-08	0.00E+00	2.16E-08	2.80E-09	1.04E-08	0.00E+00	1.32E-08
39	587553.6	4154378	3.16E-08	7.50E-08	0.00E+00	1.07E-07	6.43E-08	7.60E-08	0.00E+00	1.40E-07	5.12E-09	1.71E-08	0.00E+00	2.22E-08	2.89E-09	1.07E-08	0.00E+00	1.36E-08
40	587559.2	4154387	3.22E-08	7.65E-08	0.00E+00	1.09E-07	6.55E-08	7.74E-08	0.00E+00	1.43E-07	5.22E-09	1.74E-08	0.00E+00	2.26E-08	2.94E-09	1.09E-08	0.00E+00	1.38E-08
41	587564.8	4154395	3.24E-08	7.70E-08	0.00E+00	1.09E-07	6.59E-08	7.79E-08	0.00E+00	1.44E-07	5.25E-09	1.75E-08	0.00E+00	2.28E-08	2.96E-09	1.10E-08	0.00E+00	1.39E-08
42	587570.4	4154403	3.22E-08	7.65E-08	0.00E+00	1.09E-07	6.55E-08	7.74E-08	0.00E+00	1.43E-07	5.22E-09	1.74E-08	0.00E+00	2.26E-08	2.94E-09	1.09E-08	0.00E+00	1.38E-08
43	587576.1	4154411	3.16E-08	7.50E-08	0.00E+00	1.07E-07	6.43E-08	7.60E-08	0.00E+00	1.40E-07	5.12E-09	1.71E-08	0.00E+00	2.22E-08	2.89E-09	1.07E-08	0.00E+00	1.36E-08
44	587581.7	4154420	3.06E-08	7.27E-08	0.00E+00	1.03E-07	6.23E-08	7.36E-08	0.00E+00	1.36E-07	4.96E-09	1.65E-08	0.00E+00	2.15E-08	2.80E-09	1.04E-08	0.00E+00	1.32E-08
45	587587.3	4154428	2.93E-08	6.95E-08	0.00E+00	9.88E-08	5.95E-08	7.04E-08	0.00E+00	1.30E-07	4.74E-09	1.58E-08	0.00E+00	2.06E-08	2.67E-09	9.90E-09	0.00E+00	1.26E-08
46	587592.9	4154436	2.77E-08	6.56E-08	0.00E+00	9.33E-08	5.62E-08	6.64E-08	0.00E+00	1.23E-07	4.48E-09	1.49E-08	0.00E+00	1.94E-08	2.52E-09	9.35E-09	0.00E+00	1.19E-08
47	587598.6	4154444	2.58E-08	6.11E-08	0.00E+00	8.69E-08	5.24E-08	6.19E-08	0.00E+00	1.14E-07	4.17E-09	1.39E-08	0.00E+00	1.81E-08	2.35E-09	8.71E-09	0.00E+00	1.11E-08
48	587539.7	4154376	2.64E-08	6.26E-08	0.00E+00	8.90E-08	5.37E-08	6.34E-08	0.00E+00	1.17E-07	4.28E-09	1.43E-08	0.00E+00	1.85E-08	2.41E-09	8.92E-09	0.00E+00	1.13E-08
49	587545.3	4154384	2.70E-08	6.41E-08	0.00E+00	9.12E-08	5.49E-08	6.49E-08	0.00E+00	1.20E-07	4.38E-09	1.46E-08	0.00E+00	1.90E-08	2.47E-09	9.14E-09	0.00E+00	1.16E-08
50	587550.9	4154392	2.74E-08	6.51E-08	0.00E+00	9.25E-08	5.57E-08	6.59E-08	0.00E+00	1.22E-07	4.44E-09	1.48E-08	0.00E+00	1.92E-08	2.50E-09	9.27E-09	0.00E+00	1.18E-08
51	587556.6	4154401	2.75E-08	6.53E-08	0.00E+00	9.29E-08	5.60E-08	6.61E-08	0.00E+00	1.22E-07	4.46E-09	1.49E-08	0.00E+00	1.93E-08	2.51E-09	9.31E-09	0.00E+00	1.18E-08
52	587562.2	4154409	2.73E-08	6.49E-08	0.00E+00	9.22E-08	5.56E-08	6.57E-08	0.00E+00	1.21E-07	4.43E-09	1.48E-08	0.00E+00	1.92E-08	2.50E-09	9.24E-09	0.00E+00	1.17E-08
53	587567.8	4154417	2.69E-08	6.38E-08	0.00E+00	9.06E-08	5.46E-08	6.45E-08	0.00E+00	1.19E-07	4.35E-09	1.45E-08	0.00E+00	1.89E-08	2.45E-09	9.08E-09	0.00E+00	1.15E-08
54	587573.4	4154425	2.61E-08	6.19E-08	0.00E+00	8.80E-08	5.30E-08	6.27E-08	0.00E+00	1.16E-07	4.22E-09	1.41E-08	0.00E+00	1.83E-08	2.38E-09	8.82E-09	0.00E+00	1.12E-08
55	587579.1	4154433	2.50E-08	5.94E-08	0.00E+00	8.45E-08	5.09E-08	6.01E-08	0.00E+00	1.11E-07	4.06E-09	1.35E-08	0.00E+00	1.76E-08	2.29E-09	8.46E-09	0.00E+00	1.08E-08
56	587584.7	4154442	2.38E-08	5.64E-08	0.00E+00	8.01E-08	4.83E-08	5.71E-08	0.00E+00	1.05E-07	3.85E-09	1.28E-08	0.00E+00	1.67E-08	2.17E-09	8.03E-09	0.00E+00	1.02E-08
57	587590.3	4154450	2.23E-08	5.29E-08	0.00E+00	7.52E-08	4.53E-08	5.36E-08	0.00E+00	9.89E-08	3.61E-09	1.20E-08	0.00E+00	1.56E-08	2.04E-09	7.54E-09	0.00E+00	9.57E-09
58	587537.1	4154390	2.34E-08	5.56E-08	0.00E+00	7.90E-08	4.76E-08	5.62E-08	0.00E+00	1.04E-07	3.79E-09	1.26E-08	0.00E+00	1.64E-08	2.14E-09	7.91E-09	0.00E+00	1.01E-08
59	587542.7	4154398	2.37E-08	5.62E-08	0.00E+00	7.99E-08	4.81E-08	5.69E-08	0.00E+00	1.05E-07	3.83E-09	1.28E-08	0.00E+00	1.66E-08	2.16E-09	8.00E-09	0.00E+00	1.02E-08
60	587548.3	4154406	2.37E-08	5.63E-08	0.00E+00	8.01E-08	4.83E-08	5.70E-08	0.00E+00	1.05E-07	3.84E-09	1.28E-08	0.00E+00	1.67E-08	2.17E-09	8.02E-09	0.00E+00	1.02E-08
61	587553.9	4154414	2.36E-08	5.59E-08	0.00E+00	7.95E-08	4.79E-08	5.66E-08	0.00E+00	1.05E-07	3.82E-09	1.27E-08	0.00E+00	1.65E-08	2.15E-09	7.97E-09	0.00E+00	1.01E-08
62	587559.6	4154423	2.32E-08	5.50E-08	0.00E+00	7.82E-08	4.71E-08	5.57E-08	0.00E+00	1.03E-07	3.75E-09	1.25E-08	0.00E+00	1.63E-08	2.12E-09	7.84E-09	0.00E+00	9.95E-09
63	587565.2	4154431	2.26E-08	5.35E-08	0.00E+00	7.61E-08	4.59E-08	5.42E-08	0.00E+00	1.00E-07	3.65E-09	1.22E-08	0.00E+00	1.58E-08	2.06E-09	7.63E-09	0.00E+00	9.69E-09
64	587570.8	4154439	2.17E-08	5.16E-08	0.00E+00	7.33E-08	4.42E-08	5.22E-08	0.00E+00	9.63E-08	3.52E-09	1.17E-08	0.00E+00	1.52E-08	1.98E-09	7.34E-09	0.00E+00	9.33E-09
65	587576.4	4154447	2.07E-08	4.91E-08	0.00E+00	6.99E-08	4.21E-08	4.97E-08	0.00E+00	9.18E-08	3.35E-09	1.12E-08	0.00E+00	1.45E-08	1.89E-09	7.00E-09	0.00E+00	8.89E-09
66	587582.1	4154456	1.95E-08	4.64E-08	0.00E+00	6.59E-08	3.97E-08	4.70E-08	0.00E+00	8.67E-08	3.17E-09	1.06E-08	0.00E+00	1.37E-08	1.78E-09	6.61E-09	0.00E+00	8.39E-09
67	587528.8	4154395	2.05E-08	4.87E-08	0.00E+00	6.92E-08	4.17E-08	4.93E-08	0.00E+00	9.10E-08	3.32E-09	1.11E-08	0.00E+00	1.44E-08	1.87E-09	6.93E-09	0.00E+00	8.81E-09
68	587534.4	4154404	2.07E-08	4.91E-08	0.00E+00	6.98E-08	4.21E-08	4.97E-08	0.00E+00	9.18E-08	3.35E-09	1.12E-08	0.00E+00	1.45E-08	1.89E-09	7.00E-09	0.00E+00	8.89E-09
69	587540.1	4154412	2.07E-08	4.92E-08	0.00E+00	6.99E-08	4.21E-08	4.98E-08	0.00E+00	9.20E-08	3.36E-09	1.12E-08	0.00E+00	1.46E-08	1.89E-09	7.01E-09	0.00E+00	8.90E-09
70	587545.7	4154420	2.06E-08	4.89E-08	0.00E+00	6.95E-08	4.18E-08	4.95E-08	0.00E+00	9.13E-08	3.33E-09	1.11E-08	0.00E+00	1.44E-08	1.88E-09	6.96E-09	0.00E+00	8.84E-09
71	587551.3	4154428	2.03E-08	4.81E-08	0.00E+00	6.84E-08	4.12E-08	4.87E-08	0.00E+00	8.99E-08	3.28E-09	1.09E-08	0.00E+00	1.42E-08	1.85E-09	6.85E-09	0.00E+00	8.70E-09
72	587556.9	4154437	1.98E-08	4.69E-08	0.00E+00	6.66E-08	4.02E-08	4.75E-08	0.00E+00	8.76E-08	3.20E-09	1.07E-08	0.00E+00	1.39E-08	1.80E-09	6.68E-09	0.00E+00	8.48E-09
73	587562.6	4154445	1.91E-08	4.53E-08	0.00E+00	6.44E-08	3.88E-08	4.58E-08	0.00E+00	8.46E-08	3.09E-09	1.03E-08	0.00E+00	1.34E-08	1.74E-09	6.45E-09	0.00E+00	8.19E-09
74	587568.2	4154453	1.83E-08	4.33E-08	0.00E+00	6.16E-08	3.71E-08	4.39E-08	0.00E+00	8.10E-08	2.96E-09	9.86E-09	0.00E+00	1.28E-08	1.67E-09	6.17E-09	0.00E+00	7.84E-09
75	587573.8	4154461	1.73E-08	4.11E-08	0.00E+00	5.84E-08	3.52E-08	4.16E-08	0.00E+00	7.68E-08	2.81E-09	9.35E-09	0.00E+00	1.22E-08	1.58E-09	5.86E-09	0.00E+00	7.44E-09
76	587514.9	4154393	1.79E-08	4.25E-08	0.00E+00	6.04E-08	3.64E-08	4.30E-08	0.00E+00	7.94E-08	2.90E-09	9.67E-09	0.00E+00	1.26E-08	1.64E-09	6.06E-09	0.00E+00	7.69E-09
77	587520.6	4154401	1.82E-08	4.31E-08	0.00E+00	6.12E-08	3.69E-08	4.36E-08	0.00E+00	8.05E-08	2.94E-09	9.80E-09	0.00E+00	1.27E-08	1.66E-09	6.14E-09	0.00E+00	7.80E-09
78	587526.2	4154409	1.83E-08	4.34E-08	0.00E+00	6.17E-08	3.72E-08	4.39E-08	0.00E+00	8.11E-08	2.96E-09	9.88E-09	0.00E+00	1.28E-08	1.67E-09	6.18E-09	0.00E+00	7.85E-09
79	587531.8	4154418	1.83E-08	4.34E-08	0.00E+00	6.18E-08	3.72E-08	4.40E-08	0.00E+00	8.12E-08	2.96E-09	9.88E-09	0.00E+00	1.28E-08	1.67E-09	6.19E-09	0.00E+00	7.86E-09
80	587537.4	4154426	1.82E-08	4.31E-08	0.00E+00	6.13E-08	3.69E-08	4.37E-08	0.00E+00	8.06E-08	2.94E-09	9.81E-09	0.00E+00	1.28E-08	1.66E-09	6.14E-09	0.00E+00	7.80E-09
81	587543.1	4154434	1.79E-08	4.25E-08	0.00E+00	6.04E-08	3.64E-08	4.30E-08	0.00E+00	7.94E-08	2.90E-09	9.67E-09	0.00E+00	1.26E-08	1.63E-09	6.05E-09	0.00E+00	7.69E-09
82	587548.7	4154442	1.75E-08	4.15E-08	0.00E+00	5.90E-08	3.55E-08	4.20E-08	0.00E+00	7.75E-08	2.83E-09	9.44E-09	0.00E+00	1.23E-08	1.60E-09	5.91E-09	0.00E+00	7.51E-09
83	587554.3	4154450	1.69E-08	4.02E-08	0.00E+00	5.71E-08	3.44E-08	4.07E-08	0.00E+00	7.51E-08	2.74E-09	9.14E-09	0.00E+00	1.19E-08	1.55E-09	5.72E-09	0.00E+00	7.27E-09
84	587559.9	4154459	1.63E-08	3.86E-08	0.00E+00	5.48E-08	3.30E-08	3.91E-08	0.00E+00	7.21E-08	2.63E-09	8.78E-09	0.00E+00	1.14E-08	1.48E-09	5.50E-09	0.00E+00	6.98E-09
85	587565.6	4154467	1.55E-08	3.68E-08	0.00E+00	5.22E-08	3.15E-08	3.72E-08	0.00E+00	6.87E-08	2.51E-09	8.36E-09	0.00E+00	1.09E-08	1.41E-09	5.24E-09	0.00E+00	6.65E-09
86	587506.7	4154399	1.60E-08	3.80E-08	0.00E+00	5.41E-08	3.26E-08	3.85E-08	0.00E+00	7.11E-08	2.60E-09	8.65E-09	0.00E+00	1.12E-08	1.46E-09	5.42E-09	0.00E+00	6.88E-09
87	587512.3	4154407	1.62E-08	3.85E-08	0.00E+00	5.47E-08	3.30E-08	3.89E-08	0.00E+00	7.19E-08	2.63E-09	8.75E-09	0.00E+00	1.14E-08	1.48E-09	5.48E-09	0.00E+00	6.96E-09
88	587517.9	4154415	1.63E-08	3.87E-08	0.00E+00	5.50E-08	3.32E-08	3.92E-08	0.00E+00	7.23E-08	2.64E-09	8.81E-09	0.00E+00	1.14E-08	1.49E-09	5.51E-09	0.00E+00	7.00E-09
89	587523.6	4154423	1.63E-08	3.87E-08	0.00E+00	5.50E-08	3.32E-08	3.92E-08	0.00E+00	7.23E-08	2.64E-09	8.81E-09	0.00E+00	1.14E-08	1.49E-09	5.51E-09	0.00E+00	7.00E-09
90	587529.2	4154431	1.62E-08	3.84E-08	0.00E+00	5.46E-08	3.29E-08	3.89E-08	0.00E+00	7.18E-08	2.62E-09	8.74E-09	0.00E+00	1.14E-08	1.48E-09	5.48E-09	0.00E+00	6.95E-09
91	587534.8	4154440	1.60E-08	3.79E-08	0.00E+00	5.39E-08	3.25E-08	3.84E-08	0.00E+00	7.08E-08	2.59E-09	8.62E-09	0.00E+00	1.12E-08	1.46E-09	5.40E-09	0.00E+00	6.85E-09
92	587540.4	4154448	1.56E-08	3.71E-08	0.00E+00	5.27E-08	3.17E-08	3.75E-08	0.00E+00	6.92E-08	2.53E-09	8.43E-09	0.00E+00	1.10E-08	1.43E-09	5.28E-09	0.00E+00	6.70E-09
93	587546.1	4154456	1.52E-08	3.60E-08	0.00E+00	5.11E-08	3.08E-08	3.64E-08	0.00E+00	6.72E-08	2.45E-09	8.18E-09	0.00E+00	1.06E-08	1.38E-09	5.12E-09	0.00E+00	6.51E-09
94	587551.7	4154464	1.46E-08	3.46E-08	0.00E+00	4.92E-08	2.97E-08	3.51E-08	0.00E+00	6.47E-08	2.36E-09	7.88E-09	0.00E+00	1.02E-08	1.33E-09	4.93E-09	0.00E+00	6.27E-09
95	587557.3	4154472	1.40E-08	3.31E-08	0.00E+00	4.71E-08	2.84E-08	3.35E-08	0.00E+00	6.19E-08	2.26E-09	7.53E-09	0.00E+00	9.79E-09	1.27E-09	4.72E-09	0.00E+00	5.99E-09
96	587498.4	4154404	1.44E-08	3.43E-08	0.00E+00	4.87E-08	2.93E-08	3.47E-08	0.00E+00	6.40E-08	2.34E-09	7.79E-09	0.00E+00	1.01E-08	1.32E-09	4.88E-09	0.00E+00	6.20E-09
97	587504.1	4154412	1.46E-08	3.46E-08	0.00E+00	4.92E-08	2.96E-08	3.50E-08	0.00E+00	6.47E-08	2.36E-09	7.87E-09	0.00E+00	1.02E-08	1.33E-09	4.93E-09	0.00E+00	6.26E-09
98	587509.7	4154421	1.47E-08	3.48E-08	0.00E+00	4.94E-08	2.98E-08	3.52E-08	0.00E+00	6.50E-08	2.37E-09	7.91E-09	0.00E+00	1.03E-08	1.34E-09	4.95E-09	0.00E+00	6.29E-09
99	587515.3	4154429	1.46E-08	3.48E-08	0.00E+00	4.94E-08	2.98E-08	3.52E-08	0.00E+00	6.50E-08	2.37E-09	7.91E-09	0.00E+00	1.03E-08	1.34E-09	4.95E-09	0.00E+00	6.29E-09
100	587520.9	4154437	1.45E-08	3.45E-08	0.00E+00	4.91E-08	2.96E-08	3.49E-08	0.00E+00	6.45E-08	2.36E-09	7.85E-09	0.00E+00	1.02E-08	1.33E-09	4.92E-09	0.00E+00	6.25E-09
101	587526.6	4154445	1.43E-08	3.40E-08	0.00E+00	4.84E-08	2.92E-08	3.45E-08	0.00E+00	6.36E-08	2.32E-09	7.75E-09	0.00E+00	1.01E-08	1.31E-09	4.85E-09	0.00E+00	6.16E-09
102	587532.2	4154453	1.40E-08	3.33E-08	0.00E+00	4.74E-08	2.86E-08	3.37E-08	0.00E+00	6.23E-08	2.28E-09	7.58E-09	0.00E+00	9.86E-09	1.28E-09	4.75E-09	0.00E+00	6.03E-09
103	587537.8	4154462	1.37E-08	3.24E-08	0.00E+00	4.61E-08	2.78E-08	3.28E-08	0.00E+00	6.06E-08	2.21E-09	7.38E-09	0.00E+00	9.59E-09	1.25E-09	4.62E-09	0.00E+00	5.87E-09
104	587543.4	4154470	1.32E-08	3.13E-08	0.00E+00	4.45E-08	2.68E-08	3.17E-08	0.00E+00	5.85E-08	2.14E-09	7.12E-09	0.00E+00	9.26E-09	1.20E-09	4.46E-09	0.00E+00	5.66E-09
105	587549.1	4154478	1.27E-08	3.00E-08	0.00E+00	4.27E-08	2.57E-08	3.04E-08	0.00E+00	5.61E-08	2.05E-09	6.83E-09	0.00E+00	8.88E-09	1.16E-09	4.28E-09	0.00E+00	5.43E-09
106	587490.2	4154410	1.31E-08	3.11E-08	0.00E+00	4.42E-08	2.66E-08	3.14E-08	0.00E+00	5.81E-08	2.12E-09	7.07E-09	0.00E+00	9.19E-09	1.20E-09	4.42E-09	0.00E+00	5.62E-09
107	587495.8	4154418	1.32E-08	3.13E-08	0.00E+00	4.45E-08	2.68E-08	3.17E-08	0.00E+00	5.86E-08	2.14E-09	7.13E-09	0.00E+00	9.27E-09	1.21E-09	4.46E-09	0.00E+00	5.67E-09
108	587501.4	4154426	1.33E-08	3.15E-08	0.00E+00	4.47E-08	2.70E-08	3.19E-08	0.00E+00	5.88E-08	2.15E-09	7.16E-09	0.00E+00	9.31E-09	1.21E-09	4.48E-09	0.00E+00	5.69E-09
109	587507	4154434	1.32E-08	3.14E-08	0.00E+00	4.47E-08	2.69E-08	3.18E-08	0.00E+00	5.87E-08	2.14E-09	7.15E-09	0.00E+00	9.29E-09	1.21E-09	4.48E-09	0.00E+00	5.69E-09

110	587512.7	4154443	1.32E-08	3.12E-08	0.00E+00	4.44E-08	2.67E-08	3.16E-08	0.00E+00	5.83E-08	2.13E-09	7.10E-09	0.00E+00	9.23E-09	1.20E-09	4.45E-09	0.00E+00	5.65E-09
111	587518.3	4154451	1.30E-08	3.08E-08	0.00E+00	4.38E-08	2.64E-08	3.12E-08	0.00E+00	5.76E-08	2.10E-09	7.01E-09	0.00E+00	9.11E-09	1.19E-09	4.39E-09	0.00E+00	5.57E-09
112	587523.9	4154459	1.27E-08	3.02E-08	0.00E+00	4.29E-08	2.59E-08	3.06E-08	0.00E+00	5.64E-08	2.06E-09	6.87E-09	0.00E+00	8.93E-09	1.16E-09	4.30E-09	0.00E+00	5.46E-09
113	587529.5	4154467	1.24E-08	2.94E-08	0.00E+00	4.18E-08	2.52E-08	2.98E-08	0.00E+00	5.50E-08	2.01E-09	6.69E-09	0.00E+00	8.70E-09	1.13E-09	4.19E-09	0.00E+00	5.32E-09
114	587535.2	4154476	1.20E-08	2.85E-08	0.00E+00	4.05E-08	2.44E-08	2.88E-08	0.00E+00	5.32E-08	1.94E-09	6.48E-09	0.00E+00	8.42E-09	1.10E-09	4.06E-09	0.00E+00	5.15E-09
115	587540.8	4154484	1.15E-08	2.74E-08	0.00E+00	3.89E-08	2.35E-08	2.77E-08	0.00E+00	5.12E-08	1.87E-09	6.23E-09	0.00E+00	8.10E-09	1.05E-09	3.90E-09	0.00E+00	4.95E-09
116	587481.9	4154415	1.19E-08	2.83E-08	0.00E+00	4.03E-08	2.43E-08	2.87E-08	0.00E+00	5.29E-08	1.93E-09	6.44E-09	0.00E+00	8.38E-09	1.09E-09	4.03E-09	0.00E+00	5.12E-09
117	587487.5	4154424	1.203E-08	2.85E-08	0.00E+00	4.06E-08	2.44E-08	2.89E-08	0.00E+00	5.33E-08	1.95E-09	6.49E-09	0.00E+00	8.44E-09	1.10E-09	4.07E-09	0.00E+00	5.16E-09
118	587493.2	4154432	1.207E-08	2.86E-08	0.00E+00	4.07E-08	2.45E-08	2.90E-08	0.00E+00	5.35E-08	1.95E-09	6.51E-09	0.00E+00	8.47E-09	1.10E-09	4.08E-09	0.00E+00	5.18E-09
119	587498.8	4154440	1.205E-08	2.86E-08	0.00E+00	4.06E-08	2.45E-08	2.89E-08	0.00E+00	5.34E-08	1.95E-09	6.50E-09	0.00E+00	8.45E-09	1.10E-09	4.07E-09	0.00E+00	5.17E-09
120	587504.4	4154448	1.196E-08	2.84E-08	0.00E+00	4.04E-08	2.43E-08	2.87E-08	0.00E+00	5.31E-08	1.94E-09	6.46E-09	0.00E+00	8.40E-09	1.09E-09	4.04E-09	0.00E+00	5.14E-09
121	587510	4154457	1.181E-08	2.80E-08	0.00E+00	3.98E-08	2.40E-08	2.84E-08	0.00E+00	5.24E-08	1.91E-09	6.38E-09	0.00E+00	8.29E-09	1.08E-09	3.99E-09	0.00E+00	5.07E-09
122	587515.7	4154465	1.159E-08	2.75E-08	0.00E+00	3.91E-08	2.36E-08	2.78E-08	0.00E+00	5.14E-08	1.88E-09	6.26E-09	0.00E+00	8.14E-09	1.06E-09	3.92E-09	0.00E+00	4.98E-09
123	587521.3	4154473	1.131E-08	2.68E-08	0.00E+00	3.81E-08	2.30E-08	2.72E-08	0.00E+00	5.02E-08	1.83E-09	6.11E-09	0.00E+00	7.94E-09	1.03E-09	3.82E-09	0.00E+00	4.86E-09
124	587526.9	4154481	1.097E-08	2.60E-08	0.00E+00	3.70E-08	2.23E-08	2.63E-08	0.00E+00	4.86E-08	1.78E-09	5.92E-09	0.00E+00	7.70E-09	1.00E-09	3.71E-09	0.00E+00	4.71E-09
125	587532.5	4154489	1.058E-08	2.51E-08	0.00E+00	3.57E-08	2.15E-08	2.54E-08	0.00E+00	4.69E-08	1.71E-09	5.71E-09	0.00E+00	7.42E-09	9.66E-10	3.57E-09	0.00E+00	4.54E-09
126	587473.7	4154421	1.094E-08	2.60E-08	0.00E+00	3.69E-08	2.22E-08	2.63E-08	0.00E+00	4.85E-08	1.77E-09	5.90E-09	0.00E+00	7.67E-09	9.98E-10	3.70E-09	0.00E+00	4.69E-09
127	587479.3	4154429	1.101E-08	2.61E-08	0.00E+00	3.71E-08	2.24E-08	2.64E-08	0.00E+00	4.88E-08	1.78E-09	5.94E-09	0.00E+00	7.73E-09	1.01E-09	3.72E-09	0.00E+00	4.73E-09
128	587484.9	4154438	1.104E-08	2.62E-08	0.00E+00	3.72E-08	2.24E-08	2.65E-08	0.00E+00	4.90E-08	1.79E-09	5.96E-09	0.00E+00	7.75E-09	1.01E-09	3.73E-09	0.00E+00	4.74E-09
129	587490.5	4154446	1.102E-08	2.61E-08	0.00E+00	3.72E-08	2.24E-08	2.65E-08	0.00E+00	4.89E-08	1.78E-09	5.95E-09	0.00E+00	7.73E-09	1.01E-09	3.72E-09	0.00E+00	4.73E-09
130	587496.2	4154454	1.094E-08	2.60E-08	0.00E+00	3.69E-08	2.22E-08	2.63E-08	0.00E+00	4.85E-08	1.77E-09	5.91E-09	0.00E+00	7.68E-09	9.99E-10	3.70E-09	0.00E+00	4.70E-09
131	587501.8	4154462	1.081E-08	2.56E-08	0.00E+00	3.65E-08	2.20E-08	2.60E-08	0.00E+00	4.79E-08	1.75E-09	5.83E-09	0.00E+00	7.58E-09	9.87E-10	3.65E-09	0.00E+00	4.64E-09
132	587507.4	4154470	1.062E-08	2.52E-08	0.00E+00	3.58E-08	2.16E-08	2.55E-08	0.00E+00	4.71E-08	1.72E-09	5.73E-09	0.00E+00	7.45E-09	9.69E-10	3.59E-09	0.00E+00	4.56E-09
133	587513	4154479	1.037E-08	2.46E-08	0.00E+00	3.50E-08	2.11E-08	2.49E-08	0.00E+00	4.60E-08	1.68E-09	5.60E-09	0.00E+00	7.28E-09	9.47E-10	3.51E-09	0.00E+00	4.45E-09
134	587518.7	4154487	1.007E-08	2.39E-08	0.00E+00	3.40E-08	2.05E-08	2.42E-08	0.00E+00	4.47E-08	1.63E-09	5.44E-09	0.00E+00	7.07E-09	9.20E-10	3.41E-09	0.00E+00	4.33E-09
135	587524.3	4154495	9.735E-09	2.31E-08	0.00E+00	3.28E-08	1.98E-08	2.34E-08	0.00E+00	4.32E-08	1.58E-09	5.26E-09	0.00E+00	6.83E-09	8.89E-10	3.29E-09	0.00E+00	4.18E-09
136	587465.4	4154427	1.006E-08	2.39E-08	0.00E+00	3.39E-08	2.05E-08	2.42E-08	0.00E+00	4.46E-08	1.63E-09	5.43E-09	0.00E+00	7.06E-09	9.19E-10	3.40E-09	0.00E+00	4.32E-09
137	587471	4154435	1.012E-08	2.40E-08	0.00E+00	3.41E-08	2.06E-08	2.43E-08	0.00E+00	4.49E-08	1.64E-09	5.47E-09	0.00E+00	7.10E-09	9.24E-10	3.42E-09	0.00E+00	4.35E-09
138	587476.7	4154443	1.014E-08	2.41E-08	0.00E+00	3.42E-08	2.06E-08	2.44E-08	0.00E+00	4.50E-08	1.64E-09	5.48E-09	0.00E+00	7.12E-09	9.26E-10	3.43E-09	0.00E+00	4.36E-09
139	587482.3	4154451	1.012E-08	2.40E-08	0.00E+00	3.41E-08	2.06E-08	2.43E-08	0.00E+00	4.49E-08	1.64E-09	5.46E-09	0.00E+00	7.10E-09	9.24E-10	3.42E-09	0.00E+00	4.35E-09
140	587487.9	4154460	1.005E-08	2.39E-08	0.00E+00	3.39E-08	2.04E-08	2.41E-08	0.00E+00	4.46E-08	1.63E-09	5.43E-09	0.00E+00	7.05E-09	9.18E-10	3.40E-09	0.00E+00	4.32E-09
141	587493.5	4154468	9.933E-09	2.36E-08	0.00E+00	3.35E-08	2.02E-08	2.39E-08	0.00E+00	4.40E-08	1.61E-09	5.36E-09	0.00E+00	6.97E-09	9.07E-10	3.36E-09	0.00E+00	4.26E-09
142	587499.2	4154476	9.765E-09	2.32E-08	0.00E+00	3.29E-08	1.98E-08	2.35E-08	0.00E+00	4.33E-08	1.58E-09	5.27E-09	0.00E+00	6.85E-09	8.92E-10	3.30E-09	0.00E+00	4.19E-09
143	587504.8	4154484	9.55E-09	2.27E-08	0.00E+00	3.22E-08	1.94E-08	2.29E-08	0.00E+00	4.24E-08	1.55E-09	5.16E-09	0.00E+00	6.70E-09	8.72E-10	3.23E-09	0.00E+00	4.10E-09
144	587510.4	4154492	9.293E-09	2.21E-08	0.00E+00	3.13E-08	1.89E-08	2.23E-08	0.00E+00	4.12E-08	1.51E-09	5.02E-09	0.00E+00	6.52E-09	8.48E-10	3.14E-09	0.00E+00	3.99E-09
145	587516	4154501	8.998E-09	2.14E-08	0.00E+00	3.04E-08	1.83E-08	2.16E-08	0.00E+00	3.99E-08	1.46E-09	4.86E-09	0.00E+00	6.31E-09	8.22E-10	3.04E-09	0.00E+00	3.86E-09
146	587457.2	4154432	9.3E-09	2.21E-08	0.00E+00	3.14E-08	1.89E-08	2.23E-08	0.00E+00	4.12E-08	1.51E-09	5.02E-09	0.00E+00	6.53E-09	8.49E-10	3.14E-09	0.00E+00	3.99E-09
147	587462.8	4154441	9.347E-09	2.22E-08	0.00E+00	3.15E-08	1.90E-08	2.25E-08	0.00E+00	4.15E-08	1.51E-09	5.05E-09	0.00E+00	6.56E-09	8.53E-10	3.16E-09	0.00E+00	4.01E-09
148	587468.4	4154449	9.362E-09	2.22E-08	0.00E+00	3.16E-08	1.90E-08	2.25E-08	0.00E+00	4.15E-08	1.52E-09	5.05E-09	0.00E+00	6.57E-09	8.55E-10	3.16E-09	0.00E+00	4.02E-09
149	587474	4154457	9.338E-09	2.22E-08	0.00E+00	3.15E-08	1.90E-08	2.24E-08	0.00E+00	4.14E-08	1.51E-09	5.04E-09	0.00E+00	6.55E-09	8.53E-10	3.16E-09	0.00E+00	4.01E-09
150	587479.7	4154465	9.274E-09	2.20E-08	0.00E+00	3.13E-08	1.89E-08	2.23E-08	0.00E+00	4.11E-08	1.50E-09	5.01E-09	0.00E+00	6.51E-09	8.47E-10	3.14E-09	0.00E+00	3.98E-09
151	587485.3	4154473	9.168E-09	2.18E-08	0.00E+00	3.09E-08	1.86E-08	2.20E-08	0.00E+00	4.07E-08	1.48E-09	4.95E-09	0.00E+00	6.43E-09	8.37E-10	3.10E-09	0.00E+00	3.94E-09
152	587490.9	4154482	9.019E-09	2.14E-08	0.00E+00	3.04E-08	1.83E-08	2.17E-08	0.00E+00	4.00E-08	1.46E-09	4.87E-09	0.00E+00	6.33E-09	8.24E-10	3.05E-09	0.00E+00	3.87E-09
153	587496.5	4154490	8.831E-09	2.10E-08	0.00E+00	2.98E-08	1.79E-08	2.12E-08	0.00E+00	3.92E-08	1.43E-09	4.77E-09	0.00E+00	6.20E-09	8.06E-10	2.99E-09	0.00E+00	3.79E-09
154	587502.2	4154498	8.605E-09	2.04E-08	0.00E+00	2.90E-08	1.75E-08	2.07E-08	0.00E+00	3.82E-08	1.39E-09	4.65E-09	0.00E+00	6.04E-09	7.86E-10	2.91E-09	0.00E+00	3.69E-09
155	587507.8	4154506	8.347E-09	1.98E-08	0.00E+00	2.82E-08	1.70E-08	2.00E-08	0.00E+00	3.70E-08	1.35E-09	4.51E-09	0.00E+00	5.86E-09	7.62E-10	2.82E-09	0.00E+00	3.58E-09
156	587448.9	4154438	8.625E-09	2.05E-08	0.00E+00	2.91E-08	1.75E-08	2.07E-08	0.00E+00	3.83E-08	1.40E-09	4.66E-09	0.00E+00	6.05E-09	7.87E-10	2.92E-09	0.00E+00	3.70E-09
157	587454.5	4154446	8.663E-09	2.06E-08	0.00E+00	2.92E-08	1.76E-08	2.08E-08	0.00E+00	3.84E-08	1.40E-09	4.68E-09	0.00E+00	6.08E-09	7.91E-10	2.93E-09	0.00E+00	3.72E-09
158	587460.2	4154455	8.673E-09	2.06E-08	0.00E+00	2.93E-08	1.76E-08	2.08E-08	0.00E+00	3.85E-08	1.40E-09	4.68E-09	0.00E+00	6.09E-09	7.92E-10	2.93E-09	0.00E+00	3.72E-09
159	587465.8	4154463	8.649E-09	2.05E-08	0.00E+00	2.92E-08	1.76E-08	2.08E-08	0.00E+00	3.84E-08	1.40E-09	4.67E-09	0.00E+00	6.07E-09	7.90E-10	2.92E-09	0.00E+00	3.71E-09
160	587471.4	4154471	8.59E-09	2.04E-08	0.00E+00	2.90E-08	1.75E-08	2.06E-08	0.00E+00	3.81E-08	1.39E-09	4.64E-09	0.00E+00	6.03E-09	7.84E-10	2.90E-09	0.00E+00	3.69E-09
161	587477	4154479	8.494E-09	2.02E-08	0.00E+00	2.87E-08	1.73E-08	2.04E-08	0.00E+00	3.77E-08	1.38E-09	4.59E-09	0.00E+00	5.96E-09	7.76E-10	2.87E-09	0.00E+00	3.65E-09
162	587482.7	4154487	8.362E-09	1.98E-08	0.00E+00	2.82E-08	1.70E-08	2.01E-08	0.00E+00	3.71E-08	1.35E-09	4.51E-09	0.00E+00	5.87E-09	7.63E-10	2.83E-09	0.00E+00	3.59E-09
163	587488.3	4154496	8.194E-09	1.94E-08	0.00E+00	2.76E-08	1.67E-08	1.97E-08	0.00E+00	3.63E-08	1.33E-09	4.42E-09	0.00E+00	5.75E-09	7.48E-10	2.77E-09	0.00E+00	3.52E-09
164	587493.9	4154504	7.995E-09	1.90E-08	0.00E+00	2.70E-08	1.63E-08	1.92E-08	0.00E+00	3.55E-08	1.29E-09	4.32E-09	0.00E+00	5.61E-09	7.30E-10	2.70E-09	0.00E+00	3.43E-09
165	587499.5	4154512	7.768E-09	1.84E-08	0.00E+00	2.62E-08	1.58E-08	1.87E-08	0.00E+00	3.44E-08	1.26E-09	4.19E-09	0.00E+00	5.45E-09	7.09E-10	2.63E-09	0.00E+00	3.34E-09
166	587440.7	4154444	8.025E-09	1.90E-08	0.00E+00	2.71E-08	1.63E-08	1.93E-08	0.00E+00	3.56E-08	1.30E-09	4.33E-09	0.00E+00	5.63E-09	7.33E-10	2.71E-09	0.00E+00	3.45E-09
167	587446.3	4154452	8.056E-09	1.91E-08	0.00E+00	2.72E-08	1.64E-08	1.94E-08	0.00E+00	3.57E-08	1.30E-09	4.35E-09	0.00E+00	5.65E-09	7.36E-10	2.72E-09	0.00E+00	3.46E-09
168	587451.9	4154460	8.062E-09	1.91E-08	0.00E+00	2.72E-08	1.64E-08	1.94E-08	0.00E+00	3.58E-08	1.31E-09	4.35E-09	0.00E+00	5.66E-09	7.36E-10	2.73E-09	0.00E+00	3.46E-09
169	587457.5	4154468	8.038E-09	1.91E-08	0.00E+00	2.71E-08	1.63E-08	1.93E-08	0.00E+00	3.56E-08	1.30E-09	4.34E-09	0.00E+00	5.64E-09	7.34E-10	2.72E-09	0.00E+00	3.45E-09
170	587463.2	4154477	7.983E-09	1.89E-08	0.00E+00	2.69E-08	1.62E-08	1.92E-08	0.00E+00	3.54E-08	1.29E-09	4.31E-09	0.00E+00	5.60E-09	7.29E-10	2.70E-09	0.00E+00	3.43E-09
171	587468.8	4154485	7.897E-09	1.87E-08	0.00E+00	2.66E-08	1.61E-08	1.90E-08	0.00E+00	3.50E-08	1.28E-09	4.26E-09	0.00E+00	5.54E-09	7.21E-10	2.67E-09	0.00E+00	3.39E-09
172	587474.4	4154493	7.778E-09	1.85E-08	0.00E+00	2.62E-08	1.58E-08	1.87E-08	0.00E+00	3.45E-08	1.26E-09	4.20E-09	0.00E+00	5.46E-09	7.10E-10	2.63E-09	0.00E+00	3.34E-09
173	587480	4154501	7.628E-09	1.81E-08	0.00E+00	2.57E-08	1.55E-08	1.83E-08	0.00E+00	3.38E-08	1.24E-09	4.12E-09	0.00E+00	5.35E-09	6.96E-10	2.58E-09	0.00E+00	3.27E-09
174	587485.7	4154509	7.451E-09	1.77E-08	0.00E+00	2.51E-08	1.51E-08	1.79E-08	0.00E+00	3.30E-08	1.21E-09	4.02E-09	0.00E+00	5.23E-09	6.80E-10	2.52E-09	0.00E+00	3.20E-09
175	587491.3	4154518	7.251E-09	1.72E-08	0.00E+00	2.45E-08	1.47E-08	1.74E-08	0.00E+00	3.22E-08	1.17E-09	3.91E-09	0.00E+00	5.09E-09	6.62E-10	2.45E-09	0.00E+00	3.11E-09
176	587432.4	4154449	7.49E-09	1.78E-08	0.00E+00	2.53E-08	1.52E-08	1.80E-08	0.00E+00	3.32E-08	1.21E-09	4.04E-09	0.00E+00	5.26E-09	6.84E-10	2.53E-09	0.00E+00	3.22E-09
177	587438	4154458	7.515E-09	1.78E-08	0.00E+00	2.54E-08	1.53E-08	1.81E-08	0.00E+00	3.33E-08	1.22E-09	4.06E-09	0.00E+00	5.27E-09	6.86E-10	2.54E-09	0.00E+00	3.23E-09
178	587443.7	4154466	7.517E-09	1.78E-08	0.00E+00	2.54E-08	1.53E-08	1.81E-08	0.00E+00	3.33E-08	1.22E-09	4.06E-09	0.00E+00	5.28E-09	6.86E-10	2.54E-09	0.00E+00	3.23E-09
179	587449.3	4154474	7.494E-09	1.78E-08	0.00E+00	2.53E-08	1.52E-08	1.80E-08	0.00E+00	3.32E-08	1.21E-09	4.05E-09	0.00E+00	5.26E-09	6.84E-10	2.53E-09	0.00E+00	3.22E-09
180	587454.9	4154482	7.443E-09	1.77E-08	0.00E+00	2.51E-08	1.51E-08	1.79E-08	0.00E+00	3.30E-08	1.21E-09	4.02E-09	0.00E+00	5.22E-09	6.80E-10	2.52E-09	0.00E+00	3.20E-09
181	587460.5	4154490	7.364E-09	1.75E-08	0.00E+00	2.48E-08	1.50E-08	1.77E-08	0.00E+00	3.27E-08	1.19E-09	3.98E-09	0.00E+00	5.17E-09	6.72E-10	2.49E-09	0.00E+00	3.16E-09
182	587466.2	4154499	7.256E-09	1.72E-08	0.00E+00	2.45E-08	1.47E-08	1.74E-08	0.00E+00	3.22E-08	1.18E-09	3.92E-09	0.00E+00	5.09E-09	6.62E-10	2.45E-09	0.00E+00	3.12E-09
183	587471.8	4154507	7.122E-09	1.69E-08	0.00E+00	2.40E-08	1.45E-08	1.71E-08	0.00E+00	3.16E-08	1.15E-09	3.84E-09	0.00E+00	5.00E-09	6.50E-10	2.41E-09	0.00E+00	3.06E-09
184	587477.4	4154515	6.966E-09	1.65E-08	0.00E+00	2.35E-08	1.42E-08	1.67E-08	0.00E+00	3.09E-08	1.13E-09	3.76E-09	0.00E+00	4.89E-09	6.36E-10	2.35E-09	0.00E+00	2.99E-09
185	587483	4154523	6.787E-09	1.61E-08	0.00E+00	2.29E-08	1.38E-08	1.63E-08	0.00E+00	3.01E-08	1.10E-09	3.66E-09	0.00E+00	4.76E-09	6.20E-10	2.29E-09	0.00E+00	2.91E-09
186	587424.2	4154455	7.01E-09	1.66E-08	0.00E+00	2.36E-08	1.42E-08	1.68E-08	0.00E+00	3.11E-08	1.14E-09	3.78E-09	0.00E+00	4.92E-09	6.40E-10	2.37E-09	0.00E+00	3.01E-09
187	587429.8	4154463	7.03E-09	1.67E-08	0.00E+00	2.37E-08	1.43E-08	1.69E-08	0.00E+00	3.12E-08	1.14E-09	3.80E-09	0.00E+00	4.93E-09	6.42E-10	2.38E-09	0.00E+00	3.02E-09
188	587435.4	4154471	7.03E-09	1.67E-08	0.00E+00	2.37E-08	1.43E-08	1.69E-08	0.00E+00	3.12E-08	1.14E-09	3.80E-09	0.00E+00	4.93E-09	6.42E-10	2.38E-09	0.00E+00	3.02E-09
189	587441	4154480	7.007E-09	1.66E-08	0.00E+00	2.36E-08	1.42E-08	1.68E-08	0.00E+00	3.11E-08	1.13E-09	3.78E-09	0.00E+00	4.92E-09	6.40E-10	2.37E-09	0.00E+00	3.01E-09
190	587446.7	4154488	6.959E-09	1.65E-08	0.00E+00	2.35E-08	1.41E-08	1.67E-08	0.00E+00	3.09E-08	1.13E-09	3.76E-09	0.00E+00	4.88E-09	6.35E-10	2.35E-09	0.00E+00	2.99E-09
191	587452.3	4154496	6.887E-09	1.63E-08	0.00E+00	2.32E-08	1.40E-08	1.65E-08	0.00E+00	3.05E-08	1.12E-09	3.72E-09	0.00E+00	4.83E-09	6.29E-10	2.33E-09	0.00E+00	2.96E-09
192	587457.9	4154504	6.788E-09	1.61E-08	0.00E+00	2.29E-08	1.38E-08	1.63E-08	0.00E+00	3.01E-08	1.10E-09	3.66E-09	0.00E+00	4.76E-09	6.20E-10	2.29E-09	0.00E+00	2.91E-09
193	587463.5	4154513	6.67E-09	1.58E-08	0.00E+00	2.25E-08	1.36E-08	1.60E-08	0.00E+00	2.96E-08	1.08E-09	3.60E-09	0.00E+00	4.68E-09	6.09E-10	2.25E-09	0.00E+00	2.86E-09
194	587469.2	4154521	6.529E-09	1.55E-08	0.00E+00	2.20E-08	1.33E-08	1.57E-08	0.00E+00	2.90E-08	1.06E-09	3.52E-09	0.00E+00	4.58E-09	5.96E-10	2.21E-09	0.00E+00	2.80E-09
195	587474.8	4154529	6.369E-09	1.51E-08	0.00E+00	2.15E-08	1.29E-08	1.53E-08	0.00E+00	2.82E-08	1.03E-09	3.44E-09	0.00E+00	4.47E-09	5.82E-10	2.15E-09	0.00E+00	2.73E-09
196	587415.9	4154461	6.577E-09	1.56E-08	0.00E+00	2.22E-08	1.34E-08	1.58E-08	0.00E+00	2.92E-08	1.07E-09	3.55E-09	0.00E+00	4.62E-09	6.01E-10	2.22E-09	0.00E+00	2.82E-09
197	587421.5	4154469	6.594E-09	1.56E-08	0.00E+00	2.22E-08	1.34E-08	1.58E-08	0.00E+00	2.92E-08	1.07E-09	3.56E-09	0.00E+00	4.63E-09	6.02E-10	2.23E-09	0.00E+00	2.83E-09
198	587427.2	4154477	6.591E-09	1.56E-08	0.00E+00	2.22E-08	1.34E-08	1.58E-08	0.00E+00	2.92E-08	1.07E-09	3.56E-09	0.00E+00	4.63E-09	6.02E-10	2.23E-09	0.00E+00	2.83E-09
199	587432.8	4154485	6.569E-09	1.56E-08	0.00E+00	2.22E-08	1.34E-08	1.58E-08	0.00E+00	2.91E-08	1.06E-09	3.55E-09	0.00E+00	4.61E-09	6.00E-10	2.22E-09	0.00E+00	2.82E-09
200	587438.4	4154494	6.525E-09	1.55E-08	0.00E+00	2.20E-08	1.33E-08	1.57E-08	0.00E+00	2.89E-08	1.06E-09	3.52E-09	0.00E+00	4.58E-09	5.96E-10	2.21E-09	0.00E+00	2.80E-09
201	587444	4154502	6.458E-09	1.53E-08	0.00E+00	2.18E-08	1.31E-08	1.55E-08	0.00E+00	2.86E-08	1.05E-09	3.49E-09	0.00E+00	4.53E-09	5.90E-10	2.18E-09	0.00E+00	2.77E-09
202	587449.7	4154510	6.369E-09	1.51E-08	0.00E+00	2.15E-08	1.29E-08	1.53E-08	0.00E+00	2.82E-08	1.03E-09	3.44E-09	0.00E+00	4.47E-09	5.81E-10	2.15E-09	0.00E+00	2.73E-09
203	587455.3	4154518	6.261E-09	1.49E-08	0.00E+00	2.11E-08	1.27E-08	1.50E-08	0.00E+00	2.78E-08	1.01E-09	3.38E-09	0.00E+00	4.39E-09	5.72E-10	2.12E-09	0.00E+00	2.69E-09
204	587460.9	4154526	6.135E-09	1.46E-08	0.00E+00	2.07E-08	1.25E-08	1.47E-08	0.00E+00	2.72E-08	9.94E-10	3.31E-09	0.00E+00	4.31E-09	5.60E-10	2.07E-09	0.00E+00	2.63E-09
205	587466.5	4154535	5.991E-09	1.42E-08	0.00E+00	2.02E-08	1.22E-08	1.44E-08	0.00E+00	2.66E-08	9.70E-10	3.23E-09	0.00E+00	4.20E-09	5.47E-10	2.03E-09	0.00E+00	2.57E-09
206	587407.7	4154466	6.186E-09	1.47E-08	0.00E+00	2.09E-08	1.26E-08	1.49E-08	0.00E+00	2.74E-08	1.00E-09	3.34E-09	0.00E+00	4.34E-09	5.65E-10	2.09E-09	0.00E+00	2.66E-09
207	587413.3	4154475	6.199E-09	1.47E-08	0.00E+00	2.09E-08	1.26E-08	1.49E-08	0.00E+00	2.75E-08	1.00E-09	3.35E-09	0.00E+00	4.35E-09	5.66E-10	2.10E-09	0.00E+00	2.66E-09
208	587418.9	4154483	6.195E-09	1.47E-08	0.00E+00	2.09E-08	1.26E-08	1.49E-08	0.00E+00	2.75E-08	1.00E-09	3.34E-09	0.00E+00	4.35E-09	5.66E-10	2.09E-09	0.00E+00	2.66E-09
209	587424.5	4154491	6.173E-09	1.47E-08	0.00E+00	2.08E-08	1.25E-08	1.48E-08	0.00E+00	2.74E-08	1.00E-09	3.33E-09	0.00E+00	4.33E-09	5.64E-10	2.09E-09	0.00E+00	2.65E-09
210	587430.2	4154499	6.132E-09	1.46E-08	0.00E+00	2.07E-08	1.25E-08	1.47E-08	0.00E+00	2.72E-08	9.93E-10	3.31E-09	0.00E+00	4.30E-09	5.60E-10	2.07E-09	0.00E+00	2.63E-09
211	587435.8	4154507	6.072E-09	1.44E-08	0.00E+00	2.05E-08	1.23E-08	1.46E-08	0.00E+00	2.69E-08	9.83E-10	3.28E-09	0.00E+00	4.26E-09	5.54E-10	2.05E-09	0.00E+00	2.61E-09
212	587441.4	4154516	5.991E-09	1.42E-08	0.00E+00	2.02E-08	1.22E-08	1.44E-08	0.00E+00	2.66E-08	9.70E-10	3.23E-09	0.00E+00	4.20E-09	5.47E-10	2.03E-09	0.00E+00	2.57E-09
213	587447	4154524	5.893E-09	1.40E-08	0.00E+00	1.99E-08	1.20E-08	1.42E-08	0.00E+00	2.61E-08	9.54E-10	3.18E-09	0.00E+00	4.14E-09	5.38E-10	1.99E-09	0.00E+00	2.53E-09
214	587452.7	4154532	5.777E-09	1.37E-08	0.00E+00	1.95E-08	1.17E-08	1.39E-08	0.00E+00	2.56E-08	9.36E-10	3.12E-09	0.00E+00	4.05E-09	5.27E-10	1.95E-09	0.00E+00	2.48E-09
215	587458.3	4154540	5.647E-09	1.34E-08	0.00E+00	1.90E-08	1.15E-08	1.36E-08	0.00E+00	2.50E-08	9.15E-10	3.05E-09	0.00E+00	3.96E-09	5.16E-10	1.91E-09	0.00E+00	2.42E-09
216	587379.9	4154375	6.644E-09	1.58E-08	0.00E+00	2.24E-08	1.35E-08	1.60E-08	0.00E+00	2.95E-08	1.08E-09	3.59E-09	0.00E+00	4.66E-09	6.07E-10	2.25E-09	0.00E+00	2.85E-09
217	587376	4154356	6.779E-09	1.61E-08	0.00E+00	2.29E-08	1.38E-08	1.63E-08	0.00E+00	3.01E-08	1.10E-09	3.66E-09	0.00E+00	4.76E-09	6.19E-10	2.29E-09	0.00E+00	2.91E-09
218	587374	4154346	6.848E-09	1.63E-08	0.00E+00	2.31E-08	1.39E-08	1.65E-08	0.00E+00	3.04E-08	1.11E-09	3.70E-09	0.00E+00	4.81E-09	6.25E-10	2.31E-09	0.00E+00	2.94E-09
219	587372.1	4154337	6.919E-09	1.64E-08	0.00E+00	2.33E-08	1.41E-08	1.66E-08	0.00E+00	3.07E-08	1.12E-09	3.74E-09	0.00E+00	4.86E-09	6.32E-10	2.34E-09	0.00E+00	2.97E-09
220	587370.1	4154327	6.991E-09	1.66E-08	0.00E+00	2.36E-08	1.42E-08	1.68E-08	0.00E+00	3.10E-08	1.13E-09	3.77E-09	0.00E+00	4.91E-09	6.38E-10	2.36E-09	0.00E+00	3.00E-09
221	587399.4	4154472	5.831E-09	1.38E-08	0.00E+00	1.97E-08	1.19E-08	1.40E-08	0.00E+00	2.59E-08	9.44E-10	3.15E-09	0.00E+00	4.09E-09	5.32E-10	1.97E-09	0.00E+00	2.50E-09

222	587405	4154480	5.841E-09	1.39E-08	0.00E+00	1.97E-08	1.19E-08	1.40E-08	0.00E+00	2.59E-08	9.46E-10	3.15E-09	0.00E+00	4.10E-09	5.33E-10	1.97E-09	0.00E+00	2.51E-09
223	587410.7	4154488	5.836E-09	1.39E-08	0.00E+00	1.97E-08	1.19E-08	1.40E-08	0.00E+00	2.59E-08	9.45E-10	3.15E-09	0.00E+00	4.10E-09	5.33E-10	1.97E-09	0.00E+00	2.51E-09
224	587416.3	4154497	5.815E-09	1.38E-08	0.00E+00	1.96E-08	1.18E-08	1.40E-08	0.00E+00	2.58E-08	9.42E-10	3.14E-09	0.00E+00	4.08E-09	5.31E-10	1.97E-09	0.00E+00	2.50E-09
225	587421.9	4154505	5.776E-09	1.37E-08	0.00E+00	1.95E-08	1.17E-08	1.39E-08	0.00E+00	2.56E-08	9.35E-10	3.12E-09	0.00E+00	4.05E-09	5.27E-10	1.95E-09	0.00E+00	2.48E-09
226	587427.5	4154513	5.721E-09	1.36E-08	0.00E+00	1.93E-08	1.16E-08	1.37E-08	0.00E+00	2.54E-08	9.26E-10	3.09E-09	0.00E+00	4.01E-09	5.22E-10	1.93E-09	0.00E+00	2.46E-09
227	587433.2	4154521	5.647E-09	1.34E-08	0.00E+00	1.90E-08	1.15E-08	1.36E-08	0.00E+00	2.50E-08	9.15E-10	3.05E-09	0.00E+00	3.96E-09	5.16E-10	1.91E-09	0.00E+00	2.42E-09
228	587438.8	4154529	5.558E-09	1.32E-08	0.00E+00	1.87E-08	1.13E-08	1.34E-08	0.00E+00	2.46E-08	9.00E-10	3.00E-09	0.00E+00	3.90E-09	5.07E-10	1.88E-09	0.00E+00	2.39E-09
229	587444.4	4154538	5.452E-09	1.29E-08	0.00E+00	1.84E-08	1.11E-08	1.31E-08	0.00E+00	2.42E-08	8.83E-10	2.94E-09	0.00E+00	3.83E-09	4.98E-10	1.84E-09	0.00E+00	2.34E-09
230	587450	4154546	5.334E-09	1.27E-08	0.00E+00	1.80E-08	1.08E-08	1.28E-08	0.00E+00	2.37E-08	8.64E-10	2.88E-09	0.00E+00	3.74E-09	4.87E-10	1.80E-09	0.00E+00	2.29E-09
231	587371.9	4154382	6.251E-09	1.48E-08	0.00E+00	2.11E-08	1.27E-08	1.50E-08	0.00E+00	2.77E-08	1.01E-09	3.37E-09	0.00E+00	4.39E-09	5.71E-10	2.11E-09	0.00E+00	2.68E-09
232	587369.9	4154372	6.311E-09	1.50E-08	0.00E+00	2.13E-08	1.28E-08	1.52E-08	0.00E+00	2.80E-08	1.02E-09	3.41E-09	0.00E+00	4.43E-09	5.76E-10	2.13E-09	0.00E+00	2.71E-09
233	587368	4154363	6.372E-09	1.51E-08	0.00E+00	2.15E-08	1.30E-08	1.53E-08	0.00E+00	2.83E-08	1.03E-09	3.44E-09	0.00E+00	4.47E-09	5.82E-10	2.15E-09	0.00E+00	2.74E-09
234	587366.1	4154353	6.435E-09	1.53E-08	0.00E+00	2.17E-08	1.31E-08	1.55E-08	0.00E+00	2.85E-08	1.04E-09	3.47E-09	0.00E+00	4.52E-09	5.88E-10	2.18E-09	0.00E+00	2.76E-09
235	587364.1	4154344	6.499E-09	1.54E-08	0.00E+00	2.19E-08	1.32E-08	1.56E-08	0.00E+00	2.88E-08	1.05E-09	3.51E-09	0.00E+00	4.56E-09	5.93E-10	2.20E-09	0.00E+00	2.79E-09
236	587362.2	4154334	6.565E-09	1.56E-08	0.00E+00	2.21E-08	1.33E-08	1.58E-08	0.00E+00	2.91E-08	1.06E-09	3.54E-09	0.00E+00	4.61E-09	5.99E-10	2.22E-09	0.00E+00	2.82E-09
237	587360.3	4154324	6.631E-09	1.57E-08	0.00E+00	2.24E-08	1.35E-08	1.59E-08	0.00E+00	2.94E-08	1.07E-09	3.58E-09	0.00E+00	4.65E-09	6.05E-10	2.24E-09	0.00E+00	2.85E-09
238	587391.2	4154478	5.507E-09	1.31E-08	0.00E+00	1.86E-08	1.12E-08	1.32E-08	0.00E+00	2.44E-08	8.92E-10	2.97E-09	0.00E+00	3.87E-09	5.03E-10	1.86E-09	0.00E+00	2.36E-09
239	587396.8	4154486	5.515E-09	1.31E-08	0.00E+00	1.86E-08	1.12E-08	1.32E-08	0.00E+00	2.45E-08	8.93E-10	2.98E-09	0.00E+00	3.87E-09	5.04E-10	1.86E-09	0.00E+00	2.37E-09
240	587402.4	4154494	5.509E-09	1.31E-08	0.00E+00	1.86E-08	1.12E-08	1.32E-08	0.00E+00	2.44E-08	8.92E-10	2.97E-09	0.00E+00	3.87E-09	5.03E-10	1.86E-09	0.00E+00	2.37E-09
241	587408	4154502	5.488E-09	1.30E-08	0.00E+00	1.85E-08	1.12E-08	1.32E-08	0.00E+00	2.43E-08	8.89E-10	2.96E-09	0.00E+00	3.85E-09	5.01E-10	1.86E-09	0.00E+00	2.36E-09
242	587413.7	4154510	5.452E-09	1.29E-08	0.00E+00	1.84E-08	1.11E-08	1.31E-08	0.00E+00	2.42E-08	8.83E-10	2.94E-09	0.00E+00	3.83E-09	4.98E-10	1.84E-09	0.00E+00	2.34E-09
243	587419.3	4154519	5.401E-09	1.28E-08	0.00E+00	1.82E-08	1.10E-08	1.30E-08	0.00E+00	2.40E-08	8.75E-10	2.92E-09	0.00E+00	3.79E-09	4.93E-10	1.83E-09	0.00E+00	2.32E-09
244	587424.9	4154527	5.334E-09	1.27E-08	0.00E+00	1.80E-08	1.08E-08	1.28E-08	0.00E+00	2.37E-08	8.64E-10	2.88E-09	0.00E+00	3.74E-09	4.87E-10	1.80E-09	0.00E+00	2.29E-09
245	587430.5	4154535	5.252E-09	1.25E-08	0.00E+00	1.77E-08	1.07E-08	1.26E-08	0.00E+00	2.33E-08	8.51E-10	2.84E-09	0.00E+00	3.69E-09	4.80E-10	1.78E-09	0.00E+00	2.25E-09
246	587436.2	4154543	5.156E-09	1.22E-08	0.00E+00	1.74E-08	1.05E-08	1.24E-08	0.00E+00	2.29E-08	8.35E-10	2.78E-09	0.00E+00	3.62E-09	4.71E-10	1.74E-09	0.00E+00	2.21E-09
247	587441.8	4154552	5.048E-09	1.20E-08	0.00E+00	1.70E-08	1.03E-08	1.21E-08	0.00E+00	2.24E-08	8.18E-10	2.73E-09	0.00E+00	3.54E-09	4.61E-10	1.71E-09	0.00E+00	2.17E-09
248	587363.8	4154388	5.894E-09	1.40E-08	0.00E+00	1.99E-08	1.20E-08	1.42E-08	0.00E+00	2.61E-08	9.55E-10	3.18E-09	0.00E+00	4.14E-09	5.38E-10	1.99E-09	0.00E+00	2.53E-09
249	587361.9	4154379	5.948E-09	1.41E-08	0.00E+00	2.01E-08	1.21E-08	1.43E-08	0.00E+00	2.64E-08	9.63E-10	3.21E-09	0.00E+00	4.17E-09	5.43E-10	2.01E-09	0.00E+00	2.55E-09
250	587360	4154369	6.003E-09	1.42E-08	0.00E+00	2.02E-08	1.22E-08	1.44E-08	0.00E+00	2.66E-08	9.72E-10	3.24E-09	0.00E+00	4.21E-09	5.48E-10	2.03E-09	0.00E+00	2.58E-09
251	587358	4154360	6.06E-09	1.44E-08	0.00E+00	2.04E-08	1.23E-08	1.46E-08	0.00E+00	2.69E-08	9.81E-10	3.27E-09	0.00E+00	4.25E-09	5.53E-10	2.05E-09	0.00E+00	2.60E-09
252	587356.1	4154351	6.118E-09	1.45E-08	0.00E+00	2.06E-08	1.24E-08	1.47E-08	0.00E+00	2.71E-08	9.91E-10	3.30E-09	0.00E+00	4.29E-09	5.59E-10	2.07E-09	0.00E+00	2.63E-09
253	587354.2	4154341	6.178E-09	1.47E-08	0.00E+00	2.08E-08	1.26E-08	1.48E-08	0.00E+00	2.74E-08	1.00E-09	3.34E-09	0.00E+00	4.34E-09	5.64E-10	2.09E-09	0.00E+00	2.65E-09
254	587352.3	4154332	6.239E-09	1.48E-08	0.00E+00	2.10E-08	1.27E-08	1.50E-08	0.00E+00	2.77E-08	1.01E-09	3.37E-09	0.00E+00	4.38E-09	5.70E-10	2.11E-09	0.00E+00	2.68E-09
255	587382.9	4154483	5.212E-09	1.24E-08	0.00E+00	1.76E-08	1.06E-08	1.25E-08	0.00E+00	2.31E-08	8.44E-10	2.81E-09	0.00E+00	3.66E-09	4.76E-10	1.76E-09	0.00E+00	2.24E-09
256	587388.5	4154491	5.217E-09	1.24E-08	0.00E+00	1.76E-08	1.06E-08	1.25E-08	0.00E+00	2.31E-08	8.45E-10	2.82E-09	0.00E+00	3.66E-09	4.76E-10	1.76E-09	0.00E+00	2.24E-09
257	587394.2	4154500	5.211E-09	1.24E-08	0.00E+00	1.76E-08	1.06E-08	1.25E-08	0.00E+00	2.31E-08	8.44E-10	2.81E-09	0.00E+00	3.66E-09	4.76E-10	1.76E-09	0.00E+00	2.24E-09
258	587399.8	4154508	5.19E-09	1.23E-08	0.00E+00	1.75E-08	1.05E-08	1.25E-08	0.00E+00	2.30E-08	8.41E-10	2.80E-09	0.00E+00	3.64E-09	4.74E-10	1.75E-09	0.00E+00	2.23E-09
259	587405.4	4154516	5.157E-09	1.22E-08	0.00E+00	1.74E-08	1.05E-08	1.24E-08	0.00E+00	2.29E-08	8.35E-10	2.78E-09	0.00E+00	3.62E-09	4.71E-10	1.74E-09	0.00E+00	2.21E-09
260	587411	4154524	5.109E-09	1.21E-08	0.00E+00	1.72E-08	1.04E-08	1.23E-08	0.00E+00	2.27E-08	8.27E-10	2.76E-09	0.00E+00	3.59E-09	4.66E-10	1.73E-09	0.00E+00	2.19E-09
261	587416.7	4154533	5.047E-09	1.20E-08	0.00E+00	1.70E-08	1.03E-08	1.21E-08	0.00E+00	2.24E-08	8.17E-10	2.72E-09	0.00E+00	3.54E-09	4.61E-10	1.71E-09	0.00E+00	2.17E-09
262	587422.3	4154541	4.972E-09	1.18E-08	0.00E+00	1.68E-08	1.01E-08	1.19E-08	0.00E+00	2.21E-08	8.05E-10	2.68E-09	0.00E+00	3.49E-09	4.54E-10	1.68E-09	0.00E+00	2.13E-09
263	587427.9	4154549	4.885E-09	1.16E-08	0.00E+00	1.65E-08	9.93E-09	1.17E-08	0.00E+00	2.17E-08	7.91E-10	2.64E-09	0.00E+00	3.43E-09	4.46E-10	1.65E-09	0.00E+00	2.10E-09
264	587433.5	4154557	4.786E-09	1.14E-08	0.00E+00	1.61E-08	9.73E-09	1.15E-08	0.00E+00	2.12E-08	7.75E-10	2.58E-09	0.00E+00	3.36E-09	4.37E-10	1.62E-09	0.00E+00	2.05E-09
265	587355.7	4154395	5.569E-09	1.32E-08	0.00E+00	1.88E-08	1.13E-08	1.34E-08	0.00E+00	2.47E-08	9.02E-10	3.01E-09	0.00E+00	3.91E-09	5.08E-10	1.88E-09	0.00E+00	2.39E-09
266	587353.8	4154386	5.618E-09	1.33E-08	0.00E+00	1.89E-08	1.14E-08	1.35E-08	0.00E+00	2.49E-08	9.10E-10	3.03E-09	0.00E+00	3.94E-09	5.13E-10	1.90E-09	0.00E+00	2.41E-09
267	587351.9	4154376	5.667E-09	1.35E-08	0.00E+00	1.91E-08	1.15E-08	1.36E-08	0.00E+00	2.51E-08	9.18E-10	3.06E-09	0.00E+00	3.98E-09	5.17E-10	1.92E-09	0.00E+00	2.43E-09
268	587350	4154367	5.719E-09	1.36E-08	0.00E+00	1.93E-08	1.16E-08	1.37E-08	0.00E+00	2.54E-08	9.26E-10	3.09E-09	0.00E+00	4.01E-09	5.22E-10	1.93E-09	0.00E+00	2.46E-09
269	587348.1	4154357	5.771E-09	1.37E-08	0.00E+00	1.95E-08	1.17E-08	1.39E-08	0.00E+00	2.56E-08	9.35E-10	3.12E-09	0.00E+00	4.05E-09	5.27E-10	1.95E-09	0.00E+00	2.48E-09
270	587346.2	4154348	5.825E-09	1.38E-08	0.00E+00	1.96E-08	1.18E-08	1.40E-08	0.00E+00	2.58E-08	9.43E-10	3.14E-09	0.00E+00	4.09E-09	5.32E-10	1.97E-09	0.00E+00	2.50E-09
271	587344.3	4154339	5.881E-09	1.40E-08	0.00E+00	1.98E-08	1.20E-08	1.41E-08	0.00E+00	2.61E-08	9.52E-10	3.17E-09	0.00E+00	4.13E-09	5.37E-10	1.99E-09	0.00E+00	2.53E-09
272	587374.7	4154489	4.94E-09	1.17E-08	0.00E+00	1.67E-08	1.00E-08	1.19E-08	0.00E+00	2.19E-08	8.00E-10	2.67E-09	0.00E+00	3.47E-09	4.51E-10	1.67E-09	0.00E+00	2.12E-09
273	587380.3	4154497	4.944E-09	1.17E-08	0.00E+00	1.67E-08	1.00E-08	1.19E-08	0.00E+00	2.19E-08	8.01E-10	2.67E-09	0.00E+00	3.47E-09	4.51E-10	1.67E-09	0.00E+00	2.12E-09
274	587385.9	4154505	4.937E-09	1.17E-08	0.00E+00	1.67E-08	1.00E-08	1.19E-08	0.00E+00	2.19E-08	8.00E-10	2.67E-09	0.00E+00	3.47E-09	4.51E-10	1.67E-09	0.00E+00	2.12E-09
275	587391.5	4154514	4.918E-09	1.17E-08	0.00E+00	1.66E-08	1.00E-08	1.18E-08	0.00E+00	2.18E-08	7.96E-10	2.65E-09	0.00E+00	3.45E-09	4.49E-10	1.66E-09	0.00E+00	2.11E-09
276	587397.2	4154522	4.886E-09	1.16E-08	0.00E+00	1.65E-08	9.93E-09	1.17E-08	0.00E+00	2.17E-08	7.91E-10	2.64E-09	0.00E+00	3.43E-09	4.46E-10	1.65E-09	0.00E+00	2.10E-09
277	587402.8	4154530	4.841E-09	1.15E-08	0.00E+00	1.63E-08	9.84E-09	1.16E-08	0.00E+00	2.15E-08	7.84E-10	2.61E-09	0.00E+00	3.40E-09	4.42E-10	1.64E-09	0.00E+00	2.08E-09
278	587408.4	4154538	4.785E-09	1.14E-08	0.00E+00	1.61E-08	9.73E-09	1.15E-08	0.00E+00	2.12E-08	7.75E-10	2.58E-09	0.00E+00	3.36E-09	4.37E-10	1.62E-09	0.00E+00	2.05E-09
279	587414	4154546	4.716E-09	1.12E-08	0.00E+00	1.59E-08	9.58E-09	1.13E-08	0.00E+00	2.09E-08	7.64E-10	2.55E-09	0.00E+00	3.31E-09	4.31E-10	1.59E-09	0.00E+00	2.02E-09
280	587419.7	4154555	4.635E-09	1.10E-08	0.00E+00	1.56E-08	9.42E-09	1.11E-08	0.00E+00	2.06E-08	7.51E-10	2.50E-09	0.00E+00	3.25E-09	4.23E-10	1.57E-09	0.00E+00	1.99E-09
281	587425.3	4154563	4.544E-09	1.08E-08	0.00E+00	1.53E-08	9.24E-09	1.09E-08	0.00E+00	2.02E-08	7.36E-10	2.45E-09	0.00E+00	3.19E-09	4.15E-10	1.54E-09	0.00E+00	1.95E-09
282	587346.7	4154397	5.292E-09	1.26E-08	0.00E+00	1.79E-08	1.08E-08	1.27E-08	0.00E+00	2.35E-08	8.57E-10	2.86E-09	0.00E+00	3.71E-09	4.83E-10	1.79E-09	0.00E+00	2.27E-09
283	587344.8	4154387	5.339E-09	1.27E-08	0.00E+00	1.80E-08	1.09E-08	1.28E-08	0.00E+00	2.37E-08	8.65E-10	2.88E-09	0.00E+00	3.75E-09	4.87E-10	1.80E-09	0.00E+00	2.29E-09
284	587342.8	4154378	5.386E-09	1.28E-08	0.00E+00	1.82E-08	1.09E-08	1.29E-08	0.00E+00	2.39E-08	8.72E-10	2.91E-09	0.00E+00	3.78E-09	4.92E-10	1.82E-09	0.00E+00	2.31E-09
285	587340.8	4154368	5.435E-09	1.29E-08	0.00E+00	1.83E-08	1.10E-08	1.31E-08	0.00E+00	2.41E-08	8.80E-10	2.93E-09	0.00E+00	3.81E-09	4.96E-10	1.84E-09	0.00E+00	2.33E-09
286	587338.9	4154358	5.486E-09	1.30E-08	0.00E+00	1.85E-08	1.12E-08	1.32E-08	0.00E+00	2.43E-08	8.88E-10	2.96E-09	0.00E+00	3.85E-09	5.01E-10	1.85E-09	0.00E+00	2.36E-09
287	587336.9	4154348	5.538E-09	1.31E-08	0.00E+00	1.87E-08	1.13E-08	1.33E-08	0.00E+00	2.46E-08	8.97E-10	2.99E-09	0.00E+00	3.89E-09	5.06E-10	1.87E-09	0.00E+00	2.38E-09
288	587334.9	4154339	5.592E-09	1.33E-08	0.00E+00	1.89E-08	1.14E-08	1.34E-08	0.00E+00	2.48E-08	9.06E-10	3.02E-09	0.00E+00	3.92E-09	5.11E-10	1.89E-09	0.00E+00	2.40E-09
289	587366.4	4154495	4.691E-09	1.11E-08	0.00E+00	1.58E-08	9.54E-09	1.13E-08	0.00E+00	2.08E-08	7.60E-10	2.53E-09	0.00E+00	3.29E-09	4.28E-10	1.59E-09	0.00E+00	2.01E-09
290	587372	4154503	4.694E-09	1.11E-08	0.00E+00	1.58E-08	9.54E-09	1.13E-08	0.00E+00	2.08E-08	7.60E-10	2.53E-09	0.00E+00	3.29E-09	4.29E-10	1.59E-09	0.00E+00	2.02E-09
291	587377.7	4154511	4.686E-09	1.11E-08	0.00E+00	1.58E-08	9.53E-09	1.13E-08	0.00E+00	2.08E-08	7.59E-10	2.53E-09	0.00E+00	3.29E-09	4.28E-10	1.58E-09	0.00E+00	2.01E-09
292	587383.3	4154519	4.667E-09	1.11E-08	0.00E+00	1.57E-08	9.49E-09	1.12E-08	0.00E+00	2.07E-08	7.56E-10	2.52E-09	0.00E+00	3.28E-09	4.26E-10	1.58E-09	0.00E+00	2.00E-09
293	587388.9	4154527	4.638E-09	1.10E-08	0.00E+00	1.56E-08	9.43E-09	1.11E-08	0.00E+00	2.06E-08	7.51E-10	2.50E-09	0.00E+00	3.25E-09	4.23E-10	1.57E-09	0.00E+00	1.99E-09
294	587394.5	4154536	4.596E-09	1.09E-08	0.00E+00	1.55E-08	9.34E-09	1.10E-08	0.00E+00	2.04E-08	7.44E-10	2.48E-09	0.00E+00	3.23E-09	4.20E-10	1.55E-09	0.00E+00	1.97E-09
295	587400.2	4154544	4.543E-09	1.08E-08	0.00E+00	1.53E-08	9.23E-09	1.09E-08	0.00E+00	2.01E-08	7.36E-10	2.45E-09	0.00E+00	3.19E-09	4.15E-10	1.54E-09	0.00E+00	1.95E-09
296	587405.8	4154552	4.48E-09	1.06E-08	0.00E+00	1.51E-08	9.11E-09	1.08E-08	0.00E+00	1.99E-08	7.26E-10	2.42E-09	0.00E+00	3.14E-09	4.09E-10	1.51E-09	0.00E+00	1.92E-09
297	587411.4	4154560	4.406E-09	1.05E-08	0.00E+00	1.49E-08	8.95E-09	1.06E-08	0.00E+00	1.95E-08	7.13E-10	2.38E-09	0.00E+00	3.09E-09	4.02E-10	1.49E-09	0.00E+00	1.89E-09
298	587417	4154569	4.322E-09	1.03E-08	0.00E+00	1.46E-08	8.78E-09	1.04E-08	0.00E+00	1.92E-08	7.00E-10	2.33E-09	0.00E+00	3.03E-09	3.95E-10	1.46E-09	0.00E+00	1.86E-09
299	587338.7	4154404	5.018E-09	1.19E-08	0.00E+00	1.69E-08	1.02E-08	1.21E-08	0.00E+00	2.23E-08	8.13E-10	2.71E-09	0.00E+00	3.52E-09	4.58E-10	1.70E-09	0.00E+00	2.15E-09
300	587336.7	4154394	5.06E-09	1.20E-08	0.00E+00	1.71E-08	1.03E-08	1.22E-08	0.00E+00	2.24E-08	8.20E-10	2.73E-09	0.00E+00	3.55E-09	4.62E-10	1.71E-09	0.00E+00	2.17E-09
301	587334.8	4154384	5.103E-09	1.21E-08	0.00E+00	1.72E-08	1.04E-08	1.23E-08	0.00E+00	2.26E-08	8.26E-10	2.75E-09	0.00E+00	3.58E-09	4.66E-10	1.72E-09	0.00E+00	2.19E-09
302	587332.8	4154375	5.147E-09	1.22E-08	0.00E+00	1.74E-08	1.05E-08	1.24E-08	0.00E+00	2.28E-08	8.34E-10	2.78E-09	0.00E+00	3.61E-09	4.70E-10	1.74E-09	0.00E+00	2.21E-09
303	587330.9	4154365	5.192E-09	1.23E-08	0.00E+00	1.75E-08	1.06E-08	1.25E-08	0.00E+00	2.30E-08	8.41E-10	2.80E-09	0.00E+00	3.64E-09	4.74E-10	1.76E-09	0.00E+00	2.23E-09
304	587328.9	4154355	5.24E-09	1.24E-08	0.00E+00	1.77E-08	1.07E-08	1.26E-08	0.00E+00	2.32E-08	8.49E-10	2.83E-09	0.00E+00	3.68E-09	4.78E-10	1.77E-09	0.00E+00	2.25E-09
305	587327	4154346	5.289E-09	1.26E-08	0.00E+00	1.78E-08	1.08E-08	1.27E-08	0.00E+00	2.35E-08	8.57E-10	2.86E-09	0.00E+00	3.71E-09	4.83E-10	1.79E-09	0.00E+00	2.27E-09
306	587358.2	4154500	4.461E-09	1.06E-08	0.00E+00	1.50E-08	9.07E-09	1.07E-08	0.00E+00	1.98E-08	7.23E-10	2.41E-09	0.00E+00	3.13E-09	4.07E-10	1.51E-09	0.00E+00	1.92E-09
307	587363.8	4154508	4.463E-09	1.06E-08	0.00E+00	1.51E-08	9.07E-09	1.07E-08	0.00E+00	1.98E-08	7.23E-10	2.41E-09	0.00E+00	3.13E-09	4.07E-10	1.51E-09	0.00E+00	1.92E-09
308	587369.4	4154517	4.455E-09	1.06E-08	0.00E+00	1.50E-08	9.06E-09	1.07E-08	0.00E+00	1.98E-08	7.22E-10	2.41E-09	0.00E+00	3.13E-09	4.07E-10	1.51E-09	0.00E+00	1.91E-09
309	587375	4154525	4.437E-09	1.05E-08	0.00E+00	1.50E-08	9.02E-09	1.07E-08	0.00E+00	1.97E-08	7.19E-10	2.40E-09	0.00E+00	3.11E-09	4.05E-10	1.50E-09	0.00E+00	1.90E-09
310	587380.7	4154533	4.409E-09	1.05E-08	0.00E+00	1.49E-08	8.96E-09	1.06E-08	0.00E+00	1.96E-08	7.14E-10	2.38E-09	0.00E+00	3.09E-09	4.03E-10	1.49E-09	0.00E+00	1.89E-09
311	587386.3	4154541	4.37E-09	1.04E-08	0.00E+00	1.47E-08	8.88E-09	1.05E-08	0.00E+00	1.94E-08	7.08E-10	2.36E-09	0.00E+00	3.07E-09	3.99E-10	1.48E-09	0.00E+00	1.88E-09
312	587391.9	4154550	4.321E-09	1.03E-08	0.00E+00	1.46E-08	8.78E-09	1.04E-08	0.00E+00	1.92E-08	7.00E-10	2.33E-09	0.00E+00	3.03E-09	3.95E-10	1.46E-09	0.00E+00	1.86E-09
313	587397.5	4154558	4.262E-09	1.01E-08	0.00E+00	1.44E-08	8.66E-09	1.02E-08	0.00E+00	1.89E-08	6.90E-10	2.30E-09	0.00E+00	2.99E-09	3.89E-10	1.44E-09	0.00E+00	1.83E-09
314	587403.2	4154566	4.194E-09	9.95E-09	0.00E+00	1.41E-08	8.52E-09	1.01E-08	0.00E+00	1.86E-08	6.79E-10	2.26E-09	0.00E+00	2.94E-09	3.83E-10	1.42E-09	0.00E+00	1.80E-09
315	587408.8	4154574	4.117E-09	9.77E-09	0.00E+00	1.39E-08	8.37E-09	9.89E-09	0.00E+00	1.83E-08	6.67E-10	2.22E-09	0.00E+00	2.89E-09	3.76E-10	1.39E-09	0.00E+00	1.77E-09
316	587330.6	4154410	4.766E-09	1.13E-08	0.00E+00	1.61E-08	9.69E-09	1.14E-08	0.00E+00	2.11E-08	7.72E-10	2.57E-09	0.00E+00	3.34E-09	4.35E-10	1.61E-09	0.00E+00	2.05E-09
317	587328.7	4154401	4.804E-09	1.14E-08	0.00E+00	1.62E-08	9.76E-09	1.15E-08	0.00E+00	2.13E-08	7.78E-10	2.59E-09	0.00E+00	3.37E-09	4.39E-10	1.62E-09	0.00E+00	2.06E-09
318	587326.7	4154391	4.843E-09	1.15E-08	0.00E+00	1.63E-08	9.84E-09	1.16E-08	0.00E+00	2.15E-08	7.84E-10	2.61E-09	0.00E+00	3.40E-09	4.42E-10	1.64E-09	0.00E+00	2.08E-09
319	587324.8	4154381	4.883E-09	1.16E-08	0.00E+00	1.65E-08	9.92E-09	1.17E-08	0.00E+00	2.17E-08	7.91E-10	2.64E-09	0.00E+00	3.43E-09	4.46E-10	1.65E-09	0.00E+00	2.10E-09
320	587322.9	4154372	4.924E-09	1.17E-08	0.00E+00	1.66E-08	1.00E-08	1.18E-08	0.00E+00	2.18E-08	7.97E-10	2.66E-09	0.00E+00	3.46E-09	4.50E-10	1.66E-09	0.00E+00	2.11E-09
321	587320.9	4154362	4.966E-09	1.18E-08	0.00E+00	1.68E-08	1.01E-08	1.19E-08	0.00E+00	2.20E-08	8.04E-10	2.68E-09	0.00E+00	3.49E-09	4.53E-10	1.68E-09	0.00E+00	2.13E-09
322	587319	4154353	5.011E-09	1.19E-08	0.00E+00	1.69E-08	1.02E-08	1.20E-08	0.00E+00	2.22E-08	8.12E-10	2.70E-09	0.00E+00	3.52E-09	4.57E-10	1.69E-09	0.00E+00	2.15E-09
323	587349.9	4154506	4.249E-09	1.01E-08	0.00E+00	1.43E-08	8.64E-09	1.02E-08	0.00E+00	1.88E-08	6.88E-10	2.29E-09	0.00E+00	2.98E-09	3.88E-10	1.44E-09	0.00E+00	1.82E-09
324	587355.5	4154514	4.25E-09	1.01E-08	0.00E+00	1.43E-08	8.64E-09	1.02E-08	0.00E+00	1.88E-08	6.88E-10	2.29E-09	0.00E+00	2.98E-09	3.88E-10	1.44E-09	0.00E+00	1.82E-09
325	587361.2	4154522	4.242E-09	1.01E-08	0.00E+00	1.43E-08	8.62E-09	1.02E-08	0.00E+00	1.88E-08	6.87E-10	2.29E-09	0.00E+00	2.98E-09	3.87E-10	1.43E-09	0.00E+00	1.82E-09
326	587366.8	4154531	4.224E-09	1.00E-08	0.00E+00	1.42E-08	8.59E-09	1.01E-08	0.00E+00	1.87E-08	6.84E-10	2.28E-09	0.00E+00	2.96E-09	3.86E-10	1.43E-09	0.00E+00	1.81E-09
327	587372.4	4154539	4.198E-09	9.96E-09	0.00E+00	1.42E-08	8.53E-09	1.01E-08	0.00E+00	1.86E-08	6.80E-10	2.27E-09	0.00E+00	2.95E-09	3.83E-10	1.42E-09	0.00E+00	1.80E-09
328	587378	4154547	4.161E-09	9.88E-09	0.00E+00	1.40E-08	8.46E-09	1.00E-08	0.00E+00	1.85E-08	6.74E-10	2.25E-09	0.00E+00	2.92E-09	3.80E-10	1.41E-09	0.00E+00	1.79E-09
329	587383.7	4154555	4.116E-09	9.77E-09	0.00E+00	1.39E-08	8.37E-09	9.89E-09	0.00E+00	1.83E-08	6.67E-10	2.22E-09	0.00E+00	2.89E-09	3.76E-10	1.39E-09	0.00E+00	1.77E-09
330	587389.3	4154563	4.061E-09	9.64E-09	0.00E+00	1.37E-08	8.25E-09	9.76E-09	0.00E+00	1.80E-08	6.58E-10	2.19E-09	0.00E+00	2.85E-09	3.71E-10	1.37E-09	0.00E+00	1.74E-09
331	587394.9	4154572	3.998E-09	9.49E-09	0.00E+00	1.35E-08	8.13E-09	9.60E-09	0.00E+00	1.77E-08	6.47E-10	2.16E-09	0.00E+00	2.81E-09	3.65E-10	1.35E-09	0.00E+00	1.72E-09
332	587400.5	4154580	3.927E-09	9.32E-09	0.00E+00	1.32E-08	7.98E-09	9.43E-09	0.00E+00	1.74E-08	6.36E-10	2.12E-09	0.00E+00	2.76E-09	3.59E-10	1.33E-09	0.00E+00	1.69E-09
333	587318.7	4154398	4.604E-09	1.09E-08	0.00E+00	1.55E-08	9.36E-09	1.11E-08	0.00E+00	2.04E-08	7.46E-10	2.49E-09	0.00E+00	3.23E-09	4.20E-10	1.56E-09	0.00E+00	1.98E-09

334	587316.8	4154388	4.64E-09	1.10E-08	0.00E+00	1.57E-08	9.43E-09	1.11E-08	0.00E+00	2.06E-08	7.51E-10	2.51E-09	0.00E+00	3.26E-09	4.24E-10	1.57E-09	0.00E+00	1.99E-09
335	587314.8	4154379	4.677E-09	1.11E-08	0.00E+00	1.58E-08	9.51E-09	1.12E-08	0.00E+00	2.07E-08	7.57E-10	2.52E-09	0.00E+00	3.28E-09	4.27E-10	1.58E-09	0.00E+00	2.01E-09
336	587312.9	4154369	4.716E-09	1.12E-08	0.00E+00	1.59E-08	9.59E-09	1.13E-08	0.00E+00	2.09E-08	7.64E-10	2.55E-09	0.00E+00	3.31E-09	4.31E-10	1.59E-09	0.00E+00	2.02E-09
337	587311	4154360	4.756E-09	1.13E-08	0.00E+00	1.60E-08	9.67E-09	1.14E-08	0.00E+00	2.11E-08	7.70E-10	2.57E-09	0.00E+00	3.34E-09	4.34E-10	1.61E-09	0.00E+00	2.04E-09
338	587341.7	4154512	4.053E-09	9.62E-09	0.00E+00	1.37E-08	8.24E-09	9.74E-09	0.00E+00	1.80E-08	6.56E-10	2.19E-09	0.00E+00	2.84E-09	3.70E-10	1.37E-09	0.00E+00	1.74E-09
339	587347.3	4154520	4.052E-09	9.62E-09	0.00E+00	1.37E-08	8.24E-09	9.73E-09	0.00E+00	1.80E-08	6.56E-10	2.19E-09	0.00E+00	2.84E-09	3.70E-10	1.37E-09	0.00E+00	1.74E-09
340	587352.9	4154528	4.044E-09	9.60E-09	0.00E+00	1.36E-08	8.22E-09	9.71E-09	0.00E+00	1.79E-08	6.55E-10	2.18E-09	0.00E+00	2.84E-09	3.69E-10	1.37E-09	0.00E+00	1.74E-09
341	587358.5	4154536	4.027E-09	9.56E-09	0.00E+00	1.36E-08	8.19E-09	9.67E-09	0.00E+00	1.79E-08	6.52E-10	2.17E-09	0.00E+00	2.83E-09	3.68E-10	1.36E-09	0.00E+00	1.73E-09
342	587364.2	4154544	4.002E-09	9.50E-09	0.00E+00	1.35E-08	8.13E-09	9.61E-09	0.00E+00	1.77E-08	6.48E-10	2.16E-09	0.00E+00	2.81E-09	3.65E-10	1.35E-09	0.00E+00	1.72E-09
343	587369.8	4154553	3.968E-09	9.42E-09	0.00E+00	1.34E-08	8.07E-09	9.53E-09	0.00E+00	1.76E-08	6.43E-10	2.14E-09	0.00E+00	2.78E-09	3.62E-10	1.34E-09	0.00E+00	1.70E-09
344	587375.4	4154561	3.926E-09	9.32E-09	0.00E+00	1.32E-08	7.98E-09	9.43E-09	0.00E+00	1.74E-08	6.36E-10	2.12E-09	0.00E+00	2.75E-09	3.58E-10	1.33E-09	0.00E+00	1.69E-09
345	587381	4154569	3.875E-09	9.20E-09	0.00E+00	1.31E-08	7.88E-09	9.31E-09	0.00E+00	1.72E-08	6.28E-10	2.09E-09	0.00E+00	2.72E-09	3.54E-10	1.31E-09	0.00E+00	1.66E-09
346	587386.7	4154577	3.816E-09	9.06E-09	0.00E+00	1.29E-08	7.76E-09	9.17E-09	0.00E+00	1.69E-08	6.18E-10	2.06E-09	0.00E+00	2.68E-09	3.48E-10	1.29E-09	0.00E+00	1.64E-09
347	587392.3	4154585	3.75E-09	8.90E-09	0.00E+00	1.26E-08	7.62E-09	9.01E-09	0.00E+00	1.66E-08	6.07E-10	2.02E-09	0.00E+00	2.63E-09	3.42E-10	1.27E-09	0.00E+00	1.61E-09
348	587781.9	4154320	3.14E-07	7.45E-07	0.00E+00	1.06E-06	6.38E-07	7.54E-07	0.00E+00	1.39E-06	5.09E-08	1.70E-07	0.00E+00	2.20E-07	2.87E-08	1.06E-07	0.00E+00	1.35E-07
349	587776.8	4154312	3.351E-07	7.95E-07	0.00E+00	1.13E-06	6.81E-07	8.05E-07	0.00E+00	1.49E-06	5.43E-08	1.81E-07	0.00E+00	2.35E-07	3.06E-08	1.13E-07	0.00E+00	1.44E-07
350	587790.4	4154315	2.442E-07	5.79E-07	0.00E+00	8.24E-07	4.96E-07	5.87E-07	0.00E+00	1.08E-06	3.95E-08	1.32E-07	0.00E+00	1.71E-07	2.23E-08	8.25E-08	0.00E+00	1.05E-07
351	587785.3	4154307	2.585E-07	6.13E-07	0.00E+00	8.72E-07	5.25E-07	6.21E-07	0.00E+00	1.15E-06	4.19E-08	1.40E-07	0.00E+00	1.81E-07	2.36E-08	8.74E-08	0.00E+00	1.11E-07
352	587798.9	4154310	1.962E-07	4.66E-07	0.00E+00	6.62E-07	3.99E-07	4.71E-07	0.00E+00	8.70E-07	3.18E-08	1.06E-07	0.00E+00	1.38E-07	1.79E-08	6.63E-08	0.00E+00	8.42E-08
353	587793.8	4154302	2.057E-07	4.88E-07	0.00E+00	6.94E-07	4.18E-07	4.94E-07	0.00E+00	9.12E-07	3.33E-08	1.11E-07	0.00E+00	1.44E-07	1.88E-08	6.95E-08	0.00E+00	8.83E-08
354	587783.6	4154285	2.084E-07	4.95E-07	0.00E+00	7.03E-07	4.24E-07	5.01E-07	0.00E+00	9.24E-07	3.38E-08	1.13E-07	0.00E+00	1.46E-07	1.90E-08	7.05E-08	0.00E+00	8.95E-08
355	587778.5	4154277	2.026E-07	4.81E-07	0.00E+00	6.83E-07	4.12E-07	4.87E-07	0.00E+00	8.98E-07	3.28E-08	1.09E-07	0.00E+00	1.42E-07	1.85E-08	6.85E-08	0.00E+00	8.70E-08
356	587773.4	4154269	1.92E-07	4.56E-07	0.00E+00	6.48E-07	3.90E-07	4.61E-07	0.00E+00	8.52E-07	3.11E-08	1.04E-07	0.00E+00	1.35E-07	1.75E-08	6.49E-08	0.00E+00	8.24E-08
357	587768.3	4154261	1.766E-07	4.19E-07	0.00E+00	5.96E-07	3.59E-07	4.24E-07	0.00E+00	7.83E-07	2.86E-08	9.53E-08	0.00E+00	1.24E-07	1.61E-08	5.97E-08	0.00E+00	7.58E-08
358	587763.3	4154253	1.568E-07	3.72E-07	0.00E+00	5.29E-07	3.19E-07	3.77E-07	0.00E+00	6.95E-07	2.54E-08	8.46E-08	0.00E+00	1.10E-07	1.43E-08	5.30E-08	0.00E+00	6.73E-08
359	587758.2	4154245	1.339E-07	3.18E-07	0.00E+00	4.52E-07	2.72E-07	3.22E-07	0.00E+00	5.94E-07	2.17E-08	7.23E-08	0.00E+00	9.40E-08	1.22E-08	4.53E-08	0.00E+00	5.75E-08
360	587807.3	4154305	1.62E-07	3.85E-07	0.00E+00	5.47E-07	3.29E-07	3.89E-07	0.00E+00	7.19E-07	2.62E-08	8.75E-08	0.00E+00	1.14E-07	1.48E-08	5.48E-08	0.00E+00	6.96E-08
361	587802.3	4154296	1.683E-07	3.99E-07	0.00E+00	5.68E-07	3.42E-07	4.04E-07	0.00E+00	7.46E-07	2.73E-08	9.09E-08	0.00E+00	1.18E-07	1.54E-08	5.69E-08	0.00E+00	7.23E-08
362	587792.1	4154280	1.687E-07	4.00E-07	0.00E+00	5.69E-07	3.43E-07	4.05E-07	0.00E+00	7.48E-07	2.73E-08	9.11E-08	0.00E+00	1.18E-07	1.54E-08	5.70E-08	0.00E+00	7.24E-08
363	587787	4154272	1.633E-07	3.88E-07	0.00E+00	5.51E-07	3.32E-07	3.92E-07	0.00E+00	7.24E-07	2.65E-08	8.82E-08	0.00E+00	1.15E-07	1.49E-08	5.52E-08	0.00E+00	7.01E-08
364	587781.9	4154264	1.544E-07	3.66E-07	0.00E+00	5.21E-07	3.14E-07	3.71E-07	0.00E+00	6.85E-07	2.50E-08	8.33E-08	0.00E+00	1.08E-07	1.41E-08	5.22E-08	0.00E+00	6.63E-08
365	587776.8	4154256	1.42E-07	3.37E-07	0.00E+00	4.79E-07	2.89E-07	3.41E-07	0.00E+00	6.30E-07	2.30E-08	7.67E-08	0.00E+00	9.97E-08	1.30E-08	4.80E-08	0.00E+00	6.10E-08
366	587771.7	4154248	1.271E-07	3.02E-07	0.00E+00	4.29E-07	2.58E-07	3.05E-07	0.00E+00	5.63E-07	2.06E-08	6.86E-08	0.00E+00	8.92E-08	1.16E-08	4.30E-08	0.00E+00	5.46E-08
367	587766.7	4154239	1.107E-07	2.63E-07	0.00E+00	3.73E-07	2.25E-07	2.66E-07	0.00E+00	4.91E-07	1.79E-08	5.98E-08	0.00E+00	7.77E-08	1.01E-08	3.74E-08	0.00E+00	4.75E-08
368	587815.8	4154299	1.366E-07	3.24E-07	0.00E+00	4.61E-07	2.78E-07	3.28E-07	0.00E+00	6.06E-07	2.21E-08	7.37E-08	0.00E+00	9.59E-08	1.25E-08	4.62E-08	0.00E+00	5.86E-08
369	587810.7	4154291	1.407E-07	3.34E-07	0.00E+00	4.75E-07	2.86E-07	3.38E-07	0.00E+00	6.24E-07	2.28E-08	7.59E-08	0.00E+00	9.87E-08	1.28E-08	4.76E-08	0.00E+00	6.04E-08
370	587800.6	4154275	1.397E-07	3.32E-07	0.00E+00	4.71E-07	2.84E-07	3.36E-07	0.00E+00	6.19E-07	2.26E-08	7.54E-08	0.00E+00	9.80E-08	1.28E-08	4.72E-08	0.00E+00	6.00E-08
371	587795.5	4154267	1.349E-07	3.20E-07	0.00E+00	4.55E-07	2.74E-07	3.24E-07	0.00E+00	5.98E-07	2.18E-08	7.28E-08	0.00E+00	9.46E-08	1.23E-08	4.56E-08	0.00E+00	5.79E-08
372	587790.4	4154259	1.274E-07	3.02E-07	0.00E+00	4.30E-07	2.59E-07	3.06E-07	0.00E+00	5.65E-07	2.06E-08	6.88E-08	0.00E+00	8.94E-08	1.16E-08	4.31E-08	0.00E+00	5.47E-08
373	587824.3	4154294	1.169E-07	2.78E-07	0.00E+00	3.94E-07	2.38E-07	2.81E-07	0.00E+00	5.19E-07	1.89E-08	6.31E-08	0.00E+00	8.21E-08	1.07E-08	3.95E-08	0.00E+00	5.02E-08
374	587819.2	4154286	1.196E-07	2.84E-07	0.00E+00	4.03E-07	2.43E-07	2.87E-07	0.00E+00	5.30E-07	1.94E-08	6.45E-08	0.00E+00	8.39E-08	1.09E-08	4.04E-08	0.00E+00	5.13E-08
375	587809	4154270	1.178E-07	2.79E-07	0.00E+00	3.97E-07	2.39E-07	2.83E-07	0.00E+00	5.22E-07	1.91E-08	6.36E-08	0.00E+00	8.27E-08	1.08E-08	3.98E-08	0.00E+00	5.06E-08
376	587804	4154261	1.135E-07	2.69E-07	0.00E+00	3.83E-07	2.31E-07	2.73E-07	0.00E+00	5.03E-07	1.84E-08	6.13E-08	0.00E+00	7.97E-08	1.04E-08	3.84E-08	0.00E+00	4.87E-08
377	587798.9	4154253	1.073E-07	2.55E-07	0.00E+00	3.62E-07	2.18E-07	2.58E-07	0.00E+00	4.76E-07	1.74E-08	5.79E-08	0.00E+00	7.53E-08	9.80E-09	3.63E-08	0.00E+00	4.61E-08
378	587793.8	4154245	9.944E-08	2.36E-07	0.00E+00	3.35E-07	2.02E-07	2.39E-07	0.00E+00	4.41E-07	1.61E-08	5.37E-08	0.00E+00	6.98E-08	9.08E-09	3.36E-08	0.00E+00	4.27E-08
379	587788.7	4154237	9.045E-08	2.15E-07	0.00E+00	3.05E-07	1.84E-07	2.17E-07	0.00E+00	4.01E-07	1.46E-08	4.88E-08	0.00E+00	6.35E-08	8.26E-09	3.06E-08	0.00E+00	3.88E-08
380	587832.8	4154289	1.013E-07	2.40E-07	0.00E+00	3.42E-07	2.06E-07	2.43E-07	0.00E+00	4.49E-07	1.64E-08	5.47E-08	0.00E+00	7.11E-08	9.25E-09	3.43E-08	0.00E+00	4.35E-08
381	587827.7	4154281	1.03E-07	2.44E-07	0.00E+00	3.47E-07	2.09E-07	2.47E-07	0.00E+00	4.57E-07	1.67E-08	5.56E-08	0.00E+00	7.23E-08	9.40E-09	3.48E-08	0.00E+00	4.42E-08
382	587817.5	4154264	1.008E-07	2.39E-07	0.00E+00	3.40E-07	2.05E-07	2.42E-07	0.00E+00	4.47E-07	1.63E-08	5.44E-08	0.00E+00	7.07E-08	9.20E-09	3.41E-08	0.00E+00	4.33E-08
383	587812.4	4154256	9.708E-08	2.30E-07	0.00E+00	3.27E-07	1.97E-07	2.33E-07	0.00E+00	4.31E-07	1.57E-08	5.24E-08	0.00E+00	6.81E-08	8.86E-09	3.28E-08	0.00E+00	4.17E-08
384	587807.3	4154248	9.193E-08	2.18E-07	0.00E+00	3.10E-07	1.87E-07	2.21E-07	0.00E+00	4.08E-07	1.49E-08	4.96E-08	0.00E+00	6.45E-08	8.39E-09	3.11E-08	0.00E+00	3.95E-08
385	587802.3	4154240	8.558E-08	2.03E-07	0.00E+00	2.89E-07	1.74E-07	2.06E-07	0.00E+00	3.80E-07	1.39E-08	4.62E-08	0.00E+00	6.01E-08	7.81E-09	2.89E-08	0.00E+00	3.67E-08
386	587841.3	4154283	8.872E-08	2.11E-07	0.00E+00	2.99E-07	1.80E-07	2.13E-07	0.00E+00	3.93E-07	1.44E-08	4.79E-08	0.00E+00	6.23E-08	8.10E-09	3.00E-08	0.00E+00	3.81E-08
387	587836.2	4154275	8.969E-08	2.13E-07	0.00E+00	3.03E-07	1.82E-07	2.15E-07	0.00E+00	3.98E-07	1.45E-08	4.84E-08	0.00E+00	6.29E-08	8.19E-09	3.03E-08	0.00E+00	3.85E-08
388	587826	4154259	8.734E-08	2.07E-07	0.00E+00	2.95E-07	1.78E-07	2.10E-07	0.00E+00	3.87E-07	1.41E-08	4.71E-08	0.00E+00	6.13E-08	7.97E-09	2.95E-08	0.00E+00	3.75E-08
389	587820.9	4154251	8.414E-08	2.00E-07	0.00E+00	2.84E-07	1.71E-07	2.02E-07	0.00E+00	3.73E-07	1.36E-08	4.54E-08	0.00E+00	5.91E-08	7.68E-09	2.84E-08	0.00E+00	3.61E-08
390	587815.8	4154243	7.985E-08	1.89E-07	0.00E+00	2.69E-07	1.62E-07	1.92E-07	0.00E+00	3.54E-07	1.29E-08	4.31E-08	0.00E+00	5.60E-08	7.29E-09	2.70E-08	0.00E+00	3.43E-08
391	587849.7	4154278	7.837E-08	1.86E-07	0.00E+00	2.64E-07	1.59E-07	1.88E-07	0.00E+00	3.48E-07	1.27E-08	4.23E-08	0.00E+00	5.50E-08	7.16E-09	2.65E-08	0.00E+00	3.36E-08
392	587844.7	4154270	7.889E-08	1.87E-07	0.00E+00	2.66E-07	1.60E-07	1.89E-07	0.00E+00	3.50E-07	1.28E-08	4.26E-08	0.00E+00	5.54E-08	7.20E-09	2.67E-08	0.00E+00	3.39E-08
393	587858.2	4154273	6.975E-08	1.66E-07	0.00E+00	2.35E-07	1.42E-07	1.68E-07	0.00E+00	3.09E-07	1.13E-08	3.77E-08	0.00E+00	4.90E-08	6.37E-09	2.36E-08	0.00E+00	2.99E-08
394	587853.1	4154265	6.998E-08	1.66E-07	0.00E+00	2.36E-07	1.42E-07	1.68E-07	0.00E+00	3.10E-07	1.13E-08	3.78E-08	0.00E+00	4.91E-08	6.39E-09	2.37E-08	0.00E+00	3.00E-08
395	587959.2	4154381	2.31E-08	5.48E-08	0.00E+00	7.79E-08	4.69E-08	5.55E-08	0.00E+00	1.02E-07	3.74E-09	1.25E-08	0.00E+00	1.62E-08	2.11E-09	7.81E-09	0.00E+00	9.92E-09
396	587972.6	4154366	2.28E-08	5.41E-08	0.00E+00	7.69E-08	4.63E-08	5.48E-08	0.00E+00	1.01E-07	3.69E-09	1.23E-08	0.00E+00	1.60E-08	2.08E-09	7.71E-09	0.00E+00	9.79E-09
397	587969.1	4154383	2.151E-08	5.10E-08	0.00E+00	7.26E-08	4.37E-08	5.17E-08	0.00E+00	9.54E-08	3.48E-09	1.16E-08	0.00E+00	1.51E-08	1.96E-09	7.27E-09	0.00E+00	9.24E-09
398	587963.9	4154390	2.129E-08	5.05E-08	0.00E+00	7.18E-08	4.33E-08	5.11E-08	0.00E+00	9.44E-08	3.45E-09	1.15E-08	0.00E+00	1.49E-08	1.94E-09	7.20E-09	0.00E+00	9.14E-09
399	587974.4	4154322	2.6E-08	6.17E-08	0.00E+00	8.77E-08	5.28E-08	6.25E-08	0.00E+00	1.15E-07	4.21E-09	1.40E-08	0.00E+00	1.82E-08	2.37E-09	8.79E-09	0.00E+00	1.12E-08
400	587976	4154332	2.515E-08	5.97E-08	0.00E+00	8.49E-08	5.11E-08	6.04E-08	0.00E+00	1.12E-07	4.07E-09	1.36E-08	0.00E+00	1.77E-08	2.30E-09	8.50E-09	0.00E+00	1.08E-08
401	587979.2	4154350	2.327E-08	5.52E-08	0.00E+00	7.85E-08	4.73E-08	5.59E-08	0.00E+00	1.03E-07	3.77E-09	1.26E-08	0.00E+00	1.63E-08	2.12E-09	7.86E-09	0.00E+00	9.99E-09
402	587980.8	4154359	2.226E-08	5.28E-08	0.00E+00	7.51E-08	4.52E-08	5.35E-08	0.00E+00	9.87E-08	3.61E-09	1.20E-08	0.00E+00	1.56E-08	2.03E-09	7.53E-09	0.00E+00	9.56E-09
403	587982.4	4154368	2.124E-08	5.04E-08	0.00E+00	7.16E-08	4.32E-08	5.10E-08	0.00E+00	9.42E-08	3.44E-09	1.15E-08	0.00E+00	1.49E-08	1.94E-09	7.18E-09	0.00E+00	9.12E-09
404	587978.9	4154385	2.008E-08	4.77E-08	0.00E+00	6.77E-08	4.08E-08	4.82E-08	0.00E+00	8.91E-08	3.25E-09	1.08E-08	0.00E+00	1.41E-08	1.83E-09	6.79E-09	0.00E+00	8.62E-09
405	587982.6	4154316	2.488E-08	5.90E-08	0.00E+00	8.39E-08	5.06E-08	5.98E-08	0.00E+00	1.10E-07	4.03E-09	1.34E-08	0.00E+00	1.75E-08	2.27E-09	8.41E-09	0.00E+00	1.07E-08
406	587984.2	4154325	2.417E-08	5.74E-08	0.00E+00	8.15E-08	4.91E-08	5.81E-08	0.00E+00	1.07E-07	3.91E-09	1.30E-08	0.00E+00	1.70E-08	2.21E-09	8.17E-09	0.00E+00	1.04E-08
407	587985.8	4154334	2.339E-08	5.55E-08	0.00E+00	7.89E-08	4.75E-08	5.62E-08	0.00E+00	1.04E-07	3.79E-09	1.26E-08	0.00E+00	1.64E-08	2.14E-09	7.91E-09	0.00E+00	1.00E-08
408	587987.4	4154343	2.255E-08	5.35E-08	0.00E+00	7.61E-08	4.58E-08	5.42E-08	0.00E+00	1.00E-07	3.65E-09	1.22E-08	0.00E+00	1.58E-08	2.06E-09	7.62E-09	0.00E+00	9.68E-09
409	587989	4154352	2.167E-08	5.14E-08	0.00E+00	7.31E-08	4.40E-08	5.20E-08	0.00E+00	9.61E-08	3.51E-09	1.17E-08	0.00E+00	1.52E-08	1.98E-09	7.32E-09	0.00E+00	9.30E-09
410	587990.6	4154361	2.076E-08	4.93E-08	0.00E+00	7.00E-08	4.22E-08	4.99E-08	0.00E+00	9.21E-08	3.36E-09	1.12E-08	0.00E+00	1.46E-08	1.90E-09	7.02E-09	0.00E+00	8.91E-09
411	587992.2	4154370	1.984E-08	4.71E-08	0.00E+00	6.69E-08	4.03E-08	4.77E-08	0.00E+00	8.80E-08	3.21E-09	1.07E-08	0.00E+00	1.39E-08	1.81E-09	6.71E-09	0.00E+00	8.52E-09
412	587973.6	4154409	1.809E-08	4.29E-08	0.00E+00	6.10E-08	3.68E-08	4.35E-08	0.00E+00	8.02E-08	2.93E-09	9.77E-09	0.00E+00	1.27E-08	1.65E-09	6.12E-09	0.00E+00	7.77E-09
413	587993.6	4154325	2.275E-08	5.40E-08	0.00E+00	7.68E-08	4.62E-08	5.47E-08	0.00E+00	1.01E-07	3.69E-09	1.23E-08	0.00E+00	1.60E-08	2.08E-09	7.69E-09	0.00E+00	9.77E-09
414	587995.3	4154334	2.2E-08	5.22E-08	0.00E+00	7.42E-08	4.47E-08	5.29E-08	0.00E+00	9.76E-08	3.56E-09	1.19E-08	0.00E+00	1.54E-08	2.01E-09	7.44E-09	0.00E+00	9.45E-09
415	587996.9	4154343	2.12E-08	5.03E-08	0.00E+00	7.15E-08	4.31E-08	5.09E-08	0.00E+00	9.40E-08	3.43E-09	1.14E-08	0.00E+00	1.49E-08	1.94E-09	7.17E-09	0.00E+00	9.10E-09
416	587998.6	4154353	2.036E-08	4.83E-08	0.00E+00	6.87E-08	4.14E-08	4.89E-08	0.00E+00	9.03E-08	3.30E-09	1.10E-08	0.00E+00	1.43E-08	1.86E-09	6.88E-09	0.00E+00	8.74E-09
417	588000.3	4154362	1.95E-08	4.63E-08	0.00E+00	6.58E-08	3.96E-08	4.68E-08	0.00E+00	8.65E-08	3.16E-09	1.05E-08	0.00E+00	1.37E-08	1.78E-09	6.59E-09	0.00E+00	8.37E-09
418	588001.9	4154372	1.862E-08	4.42E-08	0.00E+00	6.28E-08	3.78E-08	4.47E-08	0.00E+00	8.26E-08	3.02E-09	1.01E-08	0.00E+00	1.31E-08	1.70E-09	6.29E-09	0.00E+00	8.00E-09
419	587993	4154397	1.746E-08	4.14E-08	0.00E+00	5.89E-08	3.55E-08	4.19E-08	0.00E+00	7.74E-08	2.83E-09	9.42E-09	0.00E+00	1.23E-08	1.59E-09	5.90E-09	0.00E+00	7.49E-09
420	588008.5	4154355	1.905E-08	4.52E-08	0.00E+00	6.43E-08	3.87E-08	4.58E-08	0.00E+00	8.45E-08	3.08E-09	1.03E-08	0.00E+00	1.34E-08	1.74E-09	6.44E-09	0.00E+00	8.18E-09
421	588010.1	4154365	1.827E-08	4.33E-08	0.00E+00	6.16E-08	3.71E-08	4.39E-08	0.00E+00	8.10E-08	2.96E-09	9.86E-09	0.00E+00	1.28E-08	1.67E-09	6.17E-09	0.00E+00	7.84E-09
422	588008.2	4154391	1.657E-08	3.93E-08	0.00E+00	5.59E-08	3.37E-08	3.98E-08	0.00E+00	7.35E-08	2.68E-09	8.95E-09	0.00E+00	1.16E-08	1.51E-09	5.60E-09	0.00E+00	7.11E-09
423	588031.4	4154378	1.547E-08	3.67E-08	0.00E+00	5.22E-08	3.15E-08	3.72E-08	0.00E+00	6.86E-08	2.51E-09	8.35E-09	0.00E+00	1.09E-08	1.41E-09	5.23E-09	0.00E+00	6.64E-09
424	588027.8	4154395	1.473E-08	3.50E-08	0.00E+00	4.97E-08	2.99E-08	3.54E-08	0.00E+00	6.53E-08	2.39E-09	7.95E-09	0.00E+00	1.03E-08	1.34E-09	4.98E-09	0.00E+00	6.32E-09
425	588039.6	4154371	1.52E-08	3.61E-08	0.00E+00	5.13E-08	3.09E-08	3.65E-08	0.00E+00	6.74E-08	2.46E-09	8.21E-09	0.00E+00	1.07E-08	1.39E-09	5.14E-09	0.00E+00	6.53E-09
426	588041.2	4154380	1.46E-08	3.47E-08	0.00E+00	4.93E-08	2.97E-08	3.51E-08	0.00E+00	6.48E-08	2.37E-09	7.88E-09	0.00E+00	1.02E-08	1.33E-09	4.94E-09	0.00E+00	6.27E-09
427	588037.7	4154397	1.392E-08	3.30E-08	0.00E+00	4.70E-08	2.83E-08	3.34E-08	0.00E+00	6.17E-08	2.25E-09	7.52E-09	0.00E+00	9.77E-09	1.27E-09	4.71E-09	0.00E+00	5.98E-09
428	588032.6	4154404	1.381E-08	3.28E-08	0.00E+00	4.66E-08	2.81E-08	3.32E-08	0.00E+00	6.12E-08	2.24E-09	7.45E-09	0.00E+00	9.69E-09	1.26E-09	4.67E-09	0.00E+00	5.93E-09
429	588049.2	4154373	1.441E-08	3.42E-08	0.00E+00	4.86E-08	2.93E-08	3.46E-08	0.00E+00	6.39E-08	2.33E-09	7.78E-09	0.00E+00	1.01E-08	1.32E-09	4.87E-09	0.00E+00	6.19E-09
430	588050.9	4154382	1.383E-08	3.28E-08	0.00E+00	4.67E-08	2.81E-08	3.32E-08	0.00E+00	6.13E-08	2.24E-09	7.47E-09	0.00E+00	9.71E-09	1.26E-09	4.68E-09	0.00E+00	5.94E-09
431	588047.3	4154399	1.318E-08	3.13E-08	0.00E+00	4.44E-08	2.68E-08	3.17E-08	0.00E+00	5.84E-08	2.13E-09	7.11E-09	0.00E+00	9.25E-09	1.20E-09	4.45E-09	0.00E+00	5.66E-09
432	588042	4154407	1.307E-08	3.10E-08	0.00E+00	4.41E-08	2.66E-08	3.14E-08	0.00E+00	5.79E-08	2.12E-09	7.05E-09	0.00E+00	9.17E-09	1.19E-09	4.42E-09	0.00E+00	5.61E-09
433	588036.7	4154415	1.292E-08	3.07E-08	0.00E+00	4.36E-08	2.63E-08	3.10E-08	0.00E+00	5.73E-08	2.09E-09	6.98E-09	0.00E+00	9.07E-09	1.18E-09	4.37E-09	0.00E+00	5.55E-09
434	588060.7	4154384	1.31E-08	3.11E-08	0.00E+00	4.42E-08	2.66E-08	3.15E-08	0.00E+00	5.81E-08	2.12E-09	7.07E-09	0.00E+00	9.19E-09	1.20E-09	4.43E-09	0.00E+00	5.62E-09
435	588057.1	4154401	1.25E-08	2.97E-08	0.00E+00	4.22E-08	2.54E-08	3.00E-08	0.00E+00	5.54E-08	2.02E-09	6.75E-09	0.00E+00	8.77E-09	1.14E-09	4.22E-09	0.00E+00	5.37E-09
436	588051.9	4154409	1.239E-08	2.94E-08	0.00E+00	4.18E-08	2.52E-08	2.98E-08	0.00E+00	5.50E-08	2.01E-09	6.69E-09	0.00E+00	8.70E-09	1.13E-09	4.19E-09	0.00E+00	5.32E-09
437	588046.7	4154417	1.226E-08	2.91E-08	0.00E+00	4.14E-08	2.49E-08	2.95E-08	0.00E+00	5.44E-08	1.99E-09	6.62E-09	0.00E+00	8.61E-09	1.12E-09	4.15E-09	0.00E+00	5.26E-09
438	588041.4	4154425	1.21E-08	2.87E-08	0.00E+00	4.08E-08	2.46E-08	2.91E-08	0.00E+00	5.37E-08	1.96E-09	6.53E-09	0.00E+00	8.49E-09	1.11E-09	4.09E-09	0.00E+00	5.20E-09
439	588057.4	4154313	1.6E-08	3.80E-08	0.00E+00	5.40E-08	3.25E-08	3.84E-08	0.00E+00	7.10E-08	2.59E-09	8.64E-09	0.00E+00	1.12E-08	1.46E-09	5.41E-09	0.00E+00	6.87E-09
440	588059.1	4154322	1.561E-08	3.70E-08	0.00E+00	5.27E-08	3.17E-08	3.75E-08	0.00E+00	6.92E-08	2.53E-09	8.43E-09	0.00E+00	1.10E-08	1.43E-09	5.28E-09	0.00E+00	6.70E-09
441	588067	4154403	1.187E-08	2.82E-08	0.00E+00	4.00E-08	2.41E-08	2.85E-08	0.00E+00	5.26E-08	1.92E-09	6.41E-09	0.00E+00	8.33E-09	1.08E-09	4.01E-09	0.00E+00	5.10E-09
442	588061.8	4154411	1.177E-08	2.79E-08	0.00E+00	3.97E-08	2.39E-08	2.83E-08	0.00E+00	5.22E-08	1.91E-09	6.36E-09	0.00E+00	8.26E-09	1.07E-09	3.98E-09	0.00E+00	5.05E-09
443	588056.6	4154419	1.165E-08	2.77E-08	0.00E+00	3.93E-08	2.37E-08	2.80E-08	0.00E+00	5.17E-08	1.89E-09	6.29E-09	0.00E+00	8.18E-09	1.06E-09	3.94E-09	0.00E+00	5.00E-09
444	588051.4	4154426	1.151E-08	2.73E-08	0.00E+00	3.88E-08	2.34E-08	2.76E-08	0.00E+00	5.10E-08	1.86E-09	6.21E-09	0.00E+00	8.08E-09	1.05E-09	3.89E-09	0.00E+00	4.94E-09
445	588046.2	4154434	1.134E-08	2.69E-08	0.00E+00	3.82E-08	2.30E-08	2.72E-08	0.00E+00	5.03E-08	1.84E-09	6.12E-09	0.00E+00	7.96E-09	1.04E-09	3.83E-09	0.00E+00	4.87E-09

446	588020.3	4154473	1.014E-08	2.41E-08	0.00E+00	3.42E-08	2.06E-08	2.44E-08	0.00E+00	4.50E-08	1.64E-09	5.48E-09	0.00E+00	7.12E-09	9.26E-10	3.43E-09	0.00E+00	4.35E-09
447	588065.7	4154306	1.547E-08	3.67E-08	0.00E+00	5.22E-08	3.14E-08	3.72E-08	0.00E+00	6.86E-08	2.50E-09	8.35E-09	0.00E+00	1.09E-08	1.41E-09	5.23E-09	0.00E+00	6.64E-09
448	588067.3	4154315	1.513E-08	3.59E-08	0.00E+00	5.10E-08	3.07E-08	3.63E-08	0.00E+00	6.71E-08	2.45E-09	8.17E-09	0.00E+00	1.06E-08	1.38E-09	5.11E-09	0.00E+00	6.49E-09
449	588068.9	4154325	1.476E-08	3.50E-08	0.00E+00	4.98E-08	3.00E-08	3.54E-08	0.00E+00	6.54E-08	2.39E-09	7.97E-09	0.00E+00	1.04E-08	1.35E-09	4.99E-09	0.00E+00	6.34E-09
450	588070.6	4154334	1.437E-08	3.41E-08	0.00E+00	4.85E-08	2.92E-08	3.45E-08	0.00E+00	6.37E-08	2.33E-09	7.76E-09	0.00E+00	1.01E-08	1.31E-09	4.86E-09	0.00E+00	6.17E-09
451	588072.2	4154343	1.397E-08	3.32E-08	0.00E+00	4.71E-08	2.84E-08	3.36E-08	0.00E+00	6.20E-08	2.26E-09	7.54E-09	0.00E+00	9.81E-09	1.28E-09	4.72E-09	0.00E+00	6.00E-09
452	588076.8	4154405	1.129E-08	2.68E-08	0.00E+00	3.81E-08	2.29E-08	2.71E-08	0.00E+00	5.01E-08	1.83E-09	6.09E-09	0.00E+00	7.92E-09	1.03E-09	3.82E-09	0.00E+00	4.85E-09
453	588071.6	4154413	1.12E-08	2.66E-08	0.00E+00	3.78E-08	2.28E-08	2.69E-08	0.00E+00	4.97E-08	1.81E-09	6.05E-09	0.00E+00	7.86E-09	1.02E-09	3.79E-09	0.00E+00	4.81E-09
454	588066.5	4154421	1.109E-08	2.63E-08	0.00E+00	3.74E-08	2.25E-08	2.66E-08	0.00E+00	4.92E-08	1.80E-09	5.99E-09	0.00E+00	7.78E-09	1.01E-09	3.75E-09	0.00E+00	4.76E-09
455	588061.4	4154428	1.096E-08	2.60E-08	0.00E+00	3.70E-08	2.23E-08	2.63E-08	0.00E+00	4.86E-08	1.77E-09	5.92E-09	0.00E+00	7.69E-09	1.00E-09	3.70E-09	0.00E+00	4.70E-09
456	588056.2	4154436	1.081E-08	2.56E-08	0.00E+00	3.64E-08	2.20E-08	2.60E-08	0.00E+00	4.79E-08	1.75E-09	5.83E-09	0.00E+00	7.58E-09	9.87E-10	3.65E-09	0.00E+00	4.64E-09
457	588035.6	4154467	9.976E-09	2.37E-08	0.00E+00	3.37E-08	2.03E-08	2.40E-08	0.00E+00	4.42E-08	1.62E-09	5.39E-09	0.00E+00	7.00E-09	9.11E-10	3.37E-09	0.00E+00	4.28E-09
458	588030.5	4154474	9.722E-09	2.31E-08	0.00E+00	3.28E-08	1.98E-08	2.34E-08	0.00E+00	4.31E-08	1.57E-09	5.25E-09	0.00E+00	6.82E-09	8.88E-10	3.29E-09	0.00E+00	4.17E-09
459	588025.4	4154482	9.451E-09	2.24E-08	0.00E+00	3.19E-08	1.92E-08	2.27E-08	0.00E+00	4.19E-08	1.53E-09	5.10E-09	0.00E+00	6.63E-09	8.63E-10	3.19E-09	0.00E+00	4.06E-09
460	588020.2	4154490	9.167E-09	2.18E-08	0.00E+00	3.09E-08	1.86E-08	2.20E-08	0.00E+00	4.07E-08	1.48E-09	4.95E-09	0.00E+00	6.43E-09	8.37E-10	3.10E-09	0.00E+00	3.94E-09

			UnMitigated			T3			T3L3			T4		
			6.10E-03	1.45E-02	0.00E+00	1.24E-02	1.46E-02	0.00E+00	9.87E-04	3.29E-03	0.00E+00	5.57E-04	2.06E-03	0.00E+00
			Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3
1	587586.6	4154356	5.60E-03	1.33E-02	0.00E+00	1.14E-02	1.35E-02	0.00E+00	9.07E-04	3.02E-03	0.00E+00	5.11E-04	1.89E-03	0.00E+00
2	587592.2	4154364	5.90E-03	1.40E-02	0.00E+00	1.20E-02	1.42E-02	0.00E+00	9.56E-04	3.19E-03	0.00E+00	5.39E-04	2.00E-03	0.00E+00
3	587597.8	4154372	6.07E-03	1.44E-02	0.00E+00	1.23E-02	1.46E-02	0.00E+00	9.82E-04	3.27E-03	0.00E+00	5.54E-04	2.05E-03	0.00E+00
4	587603.4	4154381	6.10E-03	1.45E-02	0.00E+00	1.24E-02	1.46E-02	0.00E+00	9.87E-04	3.29E-03	0.00E+00	5.57E-04	2.06E-03	0.00E+00
5	587609.1	4154389	6.03E-03	1.43E-02	0.00E+00	1.23E-02	1.45E-02	0.00E+00	9.77E-04	3.26E-03	0.00E+00	5.51E-04	2.04E-03	0.00E+00
6	587614.7	4154397	5.84E-03	1.39E-02	0.00E+00	1.19E-02	1.40E-02	0.00E+00	9.47E-04	3.16E-03	0.00E+00	5.34E-04	1.98E-03	0.00E+00
7	587620.3	4154405	5.53E-03	1.31E-02	0.00E+00	1.12E-02	1.33E-02	0.00E+00	8.96E-04	2.99E-03	0.00E+00	5.05E-04	1.87E-03	0.00E+00
8	587625.9	4154413	5.09E-03	1.21E-02	0.00E+00	1.04E-02	1.22E-02	0.00E+00	8.25E-04	2.75E-03	0.00E+00	4.65E-04	1.72E-03	0.00E+00
9	587631.6	4154422	4.53E-03	1.07E-02	0.00E+00	9.20E-03	1.09E-02	0.00E+00	7.33E-04	2.44E-03	0.00E+00	4.13E-04	1.53E-03	0.00E+00
10	587578.3	4154362	4.39E-03	1.04E-02	0.00E+00	8.92E-03	1.05E-02	0.00E+00	7.11E-04	2.37E-03	0.00E+00	4.01E-04	1.48E-03	0.00E+00
11	587583.9	4154370	4.57E-03	1.08E-02	0.00E+00	9.29E-03	1.10E-02	0.00E+00	7.40E-04	2.47E-03	0.00E+00	4.17E-04	1.54E-03	0.00E+00
12	587589.6	4154378	4.66E-03	1.11E-02	0.00E+00	9.47E-03	1.12E-02	0.00E+00	7.55E-04	2.52E-03	0.00E+00	4.25E-04	1.58E-03	0.00E+00
13	587595.2	4154386	4.66E-03	1.11E-02	0.00E+00	9.47E-03	1.12E-02	0.00E+00	7.55E-04	2.52E-03	0.00E+00	4.25E-04	1.58E-03	0.00E+00
14	587600.8	4154394	4.57E-03	1.08E-02	0.00E+00	9.29E-03	1.10E-02	0.00E+00	7.40E-04	2.47E-03	0.00E+00	4.17E-04	1.55E-03	0.00E+00
15	587606.4	4154403	4.41E-03	1.05E-02	0.00E+00	8.97E-03	1.06E-02	0.00E+00	7.15E-04	2.38E-03	0.00E+00	4.03E-04	1.49E-03	0.00E+00
16	587612.1	4154411	4.18E-03	9.92E-03	0.00E+00	8.50E-03	1.00E-02	0.00E+00	6.77E-04	2.26E-03	0.00E+00	3.82E-04	1.41E-03	0.00E+00
17	587617.7	4154419	3.87E-03	9.18E-03	0.00E+00	7.87E-03	9.30E-03	0.00E+00	6.27E-04	2.09E-03	0.00E+00	3.53E-04	1.31E-03	0.00E+00
18	587623.3	4154427	3.49E-03	8.28E-03	0.00E+00	7.10E-03	8.39E-03	0.00E+00	5.65E-04	1.88E-03	0.00E+00	3.19E-04	1.18E-03	0.00E+00
19	587570.1	4154367	3.54E-03	8.39E-03	0.00E+00	7.19E-03	8.49E-03	0.00E+00	5.73E-04	1.91E-03	0.00E+00	3.23E-04	1.20E-03	0.00E+00
20	587575.7	4154375	3.65E-03	8.66E-03	0.00E+00	7.42E-03	8.76E-03	0.00E+00	5.91E-04	1.97E-03	0.00E+00	3.33E-04	1.23E-03	0.00E+00
21	587581.3	4154384	3.70E-03	8.78E-03	0.00E+00	7.52E-03	8.89E-03	0.00E+00	5.99E-04	2.00E-03	0.00E+00	3.38E-04	1.25E-03	0.00E+00
22	587586.9	4154392	3.68E-03	8.74E-03	0.00E+00	7.49E-03	8.85E-03	0.00E+00	5.97E-04	1.99E-03	0.00E+00	3.36E-04	1.25E-03	0.00E+00
23	587592.6	4154400	3.61E-03	8.57E-03	0.00E+00	7.34E-03	8.67E-03	0.00E+00	5.85E-04	1.95E-03	0.00E+00	3.30E-04	1.22E-03	0.00E+00
24	587598.2	4154408	3.48E-03	8.27E-03	0.00E+00	7.08E-03	8.37E-03	0.00E+00	5.64E-04	1.88E-03	0.00E+00	3.18E-04	1.18E-03	0.00E+00
25	587603.8	4154416	3.31E-03	7.85E-03	0.00E+00	6.73E-03	7.95E-03	0.00E+00	5.36E-04	1.79E-03	0.00E+00	3.02E-04	1.12E-03	0.00E+00
26	587609.4	4154425	3.08E-03	7.31E-03	0.00E+00	6.26E-03	7.40E-03	0.00E+00	4.99E-04	1.66E-03	0.00E+00	2.81E-04	1.04E-03	0.00E+00
27	587615.1	4154433	2.82E-03	6.69E-03	0.00E+00	5.73E-03	6.77E-03	0.00E+00	4.56E-04	1.52E-03	0.00E+00	2.57E-04	9.52E-04	0.00E+00
28	587556.2	4154365	2.81E-03	6.66E-03	0.00E+00	5.71E-03	6.74E-03	0.00E+00	4.55E-04	1.52E-03	0.00E+00	2.56E-04	9.49E-04	0.00E+00
29	587561.8	4154373	2.91E-03	6.91E-03	0.00E+00	5.92E-03	7.00E-03	0.00E+00	4.72E-04	1.57E-03	0.00E+00	2.66E-04	9.85E-04	0.00E+00
30	587567.4	4154381	2.99E-03	7.08E-03	0.00E+00	6.07E-03	7.17E-03	0.00E+00	4.83E-04	1.61E-03	0.00E+00	2.73E-04	1.01E-03	0.00E+00
31	587573.1	4154389	3.02E-03	7.16E-03	0.00E+00	6.13E-03	7.24E-03	0.00E+00	4.88E-04	1.63E-03	0.00E+00	2.75E-04	1.02E-03	0.00E+00
32	587578.7	4154397	3.00E-03	7.11E-03	0.00E+00	6.09E-03	7.20E-03	0.00E+00	4.85E-04	1.62E-03	0.00E+00	2.74E-04	1.01E-03	0.00E+00
33	587584.3	4154406	2.94E-03	6.97E-03	0.00E+00	5.97E-03	7.06E-03	0.00E+00	4.76E-04	1.59E-03	0.00E+00	2.68E-04	9.93E-04	0.00E+00
34	587589.9	4154414	2.84E-03	6.74E-03	0.00E+00	5.77E-03	6.82E-03	0.00E+00	4.60E-04	1.53E-03	0.00E+00	2.59E-04	9.60E-04	0.00E+00
35	587595.6	4154422	2.71E-03	6.42E-03	0.00E+00	5.50E-03	6.50E-03	0.00E+00	4.38E-04	1.46E-03	0.00E+00	2.47E-04	9.14E-04	0.00E+00
36	587601.2	4154430	2.54E-03	6.02E-03	0.00E+00	5.16E-03	6.10E-03	0.00E+00	4.11E-04	1.37E-03	0.00E+00	2.32E-04	8.58E-04	0.00E+00
37	587606.8	4154439	2.34E-03	5.56E-03	0.00E+00	4.77E-03	5.63E-03	0.00E+00	3.80E-04	1.27E-03	0.00E+00	2.14E-04	7.93E-04	0.00E+00
38	587547.9	4154370	2.38E-03	5.64E-03	0.00E+00	4.83E-03	5.71E-03	0.00E+00	3.85E-04	1.28E-03	0.00E+00	2.17E-04	8.04E-04	0.00E+00
39	587553.6	4154378	2.45E-03	5.81E-03	0.00E+00	4.98E-03	5.88E-03	0.00E+00	3.96E-04	1.32E-03	0.00E+00	2.24E-04	8.28E-04	0.00E+00
40	587559.2	4154387	2.50E-03	5.92E-03	0.00E+00	5.07E-03	5.99E-03	0.00E+00	4.04E-04	1.35E-03	0.00E+00	2.28E-04	8.44E-04	0.00E+00
41	587564.8	4154395	2.51E-03	5.96E-03	0.00E+00	5.10E-03	6.03E-03	0.00E+00	4.07E-04	1.36E-03	0.00E+00	2.29E-04	8.49E-04	0.00E+00
42	587570.4	4154403	2.50E-03	5.92E-03	0.00E+00	5.07E-03	5.99E-03	0.00E+00	4.04E-04	1.35E-03	0.00E+00	2.28E-04	8.44E-04	0.00E+00
43	587576.1	4154411	2.45E-03	5.81E-03	0.00E+00	4.98E-03	5.88E-03	0.00E+00	3.97E-04	1.32E-03	0.00E+00	2.24E-04	8.28E-04	0.00E+00
44	587581.7	4154420	2.37E-03	5.63E-03	0.00E+00	4.82E-03	5.70E-03	0.00E+00	3.84E-04	1.28E-03	0.00E+00	2.17E-04	8.02E-04	0.00E+00
45	587587.3	4154428	2.27E-03	5.38E-03	0.00E+00	4.61E-03	5.45E-03	0.00E+00	3.67E-04	1.22E-03	0.00E+00	2.07E-04	7.67E-04	0.00E+00
46	587592.9	4154436	2.14E-03	5.08E-03	0.00E+00	4.35E-03	5.14E-03	0.00E+00	3.47E-04	1.16E-03	0.00E+00	1.95E-04	7.24E-04	0.00E+00
47	587598.6	4154444	1.99E-03	4.73E-03	0.00E+00	4.05E-03	4.79E-03	0.00E+00	3.23E-04	1.08E-03	0.00E+00	1.82E-04	6.74E-04	0.00E+00
48	587539.7	4154376	2.04E-03	4.85E-03	0.00E+00	4.15E-03	4.91E-03	0.00E+00	3.31E-04	1.10E-03	0.00E+00	1.87E-04	6.91E-04	0.00E+00
49	587545.3	4154384	2.09E-03	4.97E-03	0.00E+00	4.25E-03	5.03E-03	0.00E+00	3.39E-04	1.13E-03	0.00E+00	1.91E-04	7.07E-04	0.00E+00
50	587550.9	4154392	2.12E-03	5.04E-03	0.00E+00	4.31E-03	5.10E-03	0.00E+00	3.44E-04	1.15E-03	0.00E+00	1.94E-04	7.17E-04	0.00E+00
51	587556.6	4154401	2.13E-03	5.06E-03	0.00E+00	4.33E-03	5.12E-03	0.00E+00	3.45E-04	1.15E-03	0.00E+00	1.95E-04	7.20E-04	0.00E+00
52	587562.2	4154409	2.12E-03	5.02E-03	0.00E+00	4.30E-03	5.09E-03	0.00E+00	3.43E-04	1.14E-03	0.00E+00	1.93E-04	7.16E-04	0.00E+00
53	587567.8	4154417	2.08E-03	4.94E-03	0.00E+00	4.23E-03	5.00E-03	0.00E+00	3.37E-04	1.12E-03	0.00E+00	1.90E-04	7.03E-04	0.00E+00
54	587573.4	4154425	2.02E-03	4.79E-03	0.00E+00	4.10E-03	4.85E-03	0.00E+00	3.27E-04	1.09E-03	0.00E+00	1.84E-04	6.83E-04	0.00E+00
55	587579.1	4154433	1.94E-03	4.60E-03	0.00E+00	3.94E-03	4.66E-03	0.00E+00	3.14E-04	1.05E-03	0.00E+00	1.77E-04	6.55E-04	0.00E+00
56	587584.7	4154442	1.84E-03	4.37E-03	0.00E+00	3.74E-03	4.42E-03	0.00E+00	2.98E-04	9.93E-04	0.00E+00	1.68E-04	6.22E-04	0.00E+00
57	587590.3	4154450	1.73E-03	4.10E-03	0.00E+00	3.51E-03	4.15E-03	0.00E+00	2.80E-04	9.32E-04	0.00E+00	1.58E-04	5.83E-04	0.00E+00
58	587537.1	4154390	1.81E-03	4.30E-03	0.00E+00	3.68E-03	4.35E-03	0.00E+00	2.94E-04	9.78E-04	0.00E+00	1.65E-04	6.13E-04	0.00E+00
59	587542.7	4154398	1.83E-03	4.35E-03	0.00E+00	3.73E-03	4.40E-03	0.00E+00	2.97E-04	9.89E-04	0.00E+00	1.67E-04	6.20E-04	0.00E+00
60	587548.3	4154406	1.84E-03	4.36E-03	0.00E+00	3.74E-03	4.41E-03	0.00E+00	2.98E-04	9.92E-04	0.00E+00	1.68E-04	6.21E-04	0.00E+00
61	587553.9	4154414	1.83E-03	4.33E-03	0.00E+00	3.71E-03	4.38E-03	0.00E+00	2.96E-04	9.85E-04	0.00E+00	1.67E-04	6.17E-04	0.00E+00
62	587559.6	4154423	1.79E-03	4.26E-03	0.00E+00	3.65E-03	4.31E-03	0.00E+00	2.91E-04	9.69E-04	0.00E+00	1.64E-04	6.07E-04	0.00E+00
63	587565.2	4154431	1.75E-03	4.14E-03	0.00E+00	3.55E-03	4.20E-03	0.00E+00	2.83E-04	9.43E-04	0.00E+00	1.59E-04	5.90E-04	0.00E+00
64	587570.8	4154439	1.68E-03	3.99E-03	0.00E+00	3.42E-03	4.04E-03	0.00E+00	2.72E-04	9.08E-04	0.00E+00	1.54E-04	5.69E-04	0.00E+00
65	587576.4	4154447	1.60E-03	3.81E-03	0.00E+00	3.26E-03	3.85E-03	0.00E+00	2.60E-04	8.66E-04	0.00E+00	1.46E-04	5.42E-04	0.00E+00
66	587582.1	4154456	1.51E-03	3.59E-03	0.00E+00	3.08E-03	3.64E-03	0.00E+00	2.45E-04	8.17E-04	0.00E+00	1.38E-04	5.12E-04	0.00E+00
67	587528.8	4154395	1.59E-03	3.77E-03	0.00E+00	3.23E-03	3.82E-03	0.00E+00	2.57E-04	8.57E-04	0.00E+00	1.45E-04	5.37E-04	0.00E+00
68	587534.4	4154404	1.60E-03	3.80E-03	0.00E+00	3.26E-03	3.85E-03	0.00E+00	2.60E-04	8.65E-04	0.00E+00	1.46E-04	5.42E-04	0.00E+00
69	587540.1	4154412	1.61E-03	3.81E-03	0.00E+00	3.26E-03	3.86E-03	0.00E+00	2.60E-04	8.67E-04	0.00E+00	1.47E-04	5.43E-04	0.00E+00
70	587545.7	4154420	1.59E-03	3.78E-03	0.00E+00	3.24E-03	3.83E-03	0.00E+00	2.58E-04	8.61E-04	0.00E+00	1.46E-04	5.39E-04	0.00E+00
71	587551.3	4154428	1.57E-03	3.72E-03	0.00E+00	3.19E-03	3.77E-03	0.00E+00	2.54E-04	8.47E-04	0.00E+00	1.43E-04	5.30E-04	0.00E+00
72	587556.9	4154437	1.53E-03	3.63E-03	0.00E+00	3.11E-03	3.67E-03	0.00E+00	2.48E-04	8.26E-04	0.00E+00	1.40E-04	5.17E-04	0.00E+00
73	587562.6	4154445	1.48E-03	3.51E-03	0.00E+00	3.00E-03	3.55E-03	0.00E+00	2.39E-04	7.98E-04	0.00E+00	1.35E-04	4.99E-04	0.00E+00
74	587568.2	4154453	1.41E-03	3.36E-03	0.00E+00	2.87E-03	3.40E-03	0.00E+00	2.29E-04	7.63E-04	0.00E+00	1.29E-04	4.78E-04	0.00E+00
75	587573.8	4154461	1.34E-03	3.18E-03	0.00E+00	2.73E-03	3.22E-03	0.00E+00	2.17E-04	7.24E-04	0.00E+00	1.22E-04	4.53E-04	0.00E+00
76	587514.9	4154393	1.39E-03	3.29E-03	0.00E+00	2.82E-03	3.33E-03	0.00E+00	2.25E-04	7.49E-04	0.00E+00	1.27E-04	4.69E-04	0.00E+00
77	587520.6	4154401	1.41E-03	3.34E-03	0.00E+00	2.86E-03	3.38E-03	0.00E+00	2.28E-04	7.59E-04	0.00E+00	1.28E-04	4.75E-04	0.00E+00
78	587526.2	4154409	1.42E-03	3.36E-03	0.00E+00	2.88E-03	3.40E-03	0.00E+00	2.29E-04	7.65E-04	0.00E+00	1.29E-04	4.79E-04	0.00E+00
79	587531.8	4154418	1.42E-03	3.36E-03	0.00E+00	2.88E-03	3.40E-03	0.00E+00	2.30E-04	7.65E-04	0.00E+00	1.29E-04	4.79E-04	0.00E+00
80	587537.4	4154426	1.41E-03	3.34E-03	0.00E+00	2.86E-03	3.38E-03	0.00E+00	2.28E-04	7.60E-04	0.00E+00	1.29E-04	4.76E-04	0.00E+00
81	587543.1	4154434	1.39E-03	3.29E-03	0.00E+00	2.82E-03	3.33E-03	0.00E+00	2.25E-04	7.48E-04	0.00E+00	1.27E-04	4.69E-04	0.00E+00
82	587548.7	4154442	1.35E-03	3.21E-03	0.00E+00	2.75E-03	3.25E-03	0.00E+00	2.19E-04	7.31E-04	0.00E+00	1.24E-04	4.58E-04	0.00E+00
83	587554.3	4154450	1.31E-03	3.11E-03	0.00E+00	2.66E-03	3.15E-03	0.00E+00	2.12E-04	7.08E-04	0.00E+00	1.20E-04	4.43E-04	0.00E+00
84	587559.9	4154459	1.26E-03	2.99E-03	0.00E+00	2.56E-03	3.02E-03	0.00E+00	2.04E-04	6.80E-04	0.00E+00	1.15E-04	4.26E-04	0.00E+00
85	587565.6	4154467	1.20E-03	2.85E-03	0.00E+00	2.44E-03	2.88E-03	0.00E+00	1.94E-04	6.47E-04	0.00E+00	1.09E-04	4.05E-04	0.00E+00
86	587506.7	4154399	1.24E-03	2.94E-03	0.00E+00	2.52E-03	2.98E-03	0.00E+00	2.01E-04	6.70E-04	0.00E+00	1.13E-04	4.19E-04	0.00E+00
87	587512.3	4154407	1.26E-03	2.98E-03	0.00E+00	2.55E-03	3.02E-03	0.00E+00	2.03E-04	6.78E-04	0.00E+00	1.15E-04	4.24E-04	0.00E+00
88	587517.9	4154415	1.26E-03	3.00E-03	0.00E+00	2.57E-03	3.03E-03	0.00E+00	2.05E-04	6.82E-04	0.00E+00	1.15E-04	4.27E-04	0.00E+00
89	587523.6	4154423	1.26E-03	3.00E-03	0.00E+00	2.57E-03	3.03E-03	0.00E+00	2.05E-04	6.82E-04	0.00E+00	1.15E-04	4.27E-04	0.00E+00
90	587529.2	4154431	1.25E-03	2.98E-03	0.00E+00	2.55E-03	3.01E-03	0.00E+00	2.03E-04	6.77E-04	0.00E+00	1.14E-04	4.24E-04	0.00E+00
91	587534.8	4154440	1.24E-03	2.93E-03	0.00E+00	2.51E-03	2.97E-03	0.00E+00	2.00E-04	6.67E-04	0.00E+00	1.13E-04	4.18E-04	0.00E+00
92	587540.4	4154448	1.21E-03	2.87E-03	0.00E+00	2.46E-03	2.90E-03	0.00E+00	1.96E-04	6.53E-04	0.00E+00	1.10E-04	4.09E-04	0.00E+00
93	587546.1	4154456	1.17E-03	2.78E-03	0.00E+00	2.38E-03	2.82E-03	0.00E+00	1.90E-04	6.33E-04	0.00E+00	1.07E-04	3.97E-04	0.00E+00

94	587551.7	4154464	1.13E-03	2.68E-03	0.00E+00	2.30E-03	2.71E-03	0.00E+00	1.83E-04	6.10E-04	0.00E+00	1.03E-04	3.82E-04	0.00E+00
95	587557.3	4154472	1.08E-03	2.56E-03	0.00E+00	2.20E-03	2.60E-03	0.00E+00	1.75E-04	5.83E-04	0.00E+00	9.86E-05	3.65E-04	0.00E+00
96	587498.4	4154404	1.12E-03	2.65E-03	0.00E+00	2.27E-03	2.69E-03	0.00E+00	1.81E-04	6.03E-04	0.00E+00	1.02E-04	3.78E-04	0.00E+00
97	587504.1	4154412	1.13E-03	2.68E-03	0.00E+00	2.30E-03	2.71E-03	0.00E+00	1.83E-04	6.10E-04	0.00E+00	1.03E-04	3.82E-04	0.00E+00
98	587509.7	4154421	1.13E-03	2.69E-03	0.00E+00	2.31E-03	2.73E-03	0.00E+00	1.84E-04	6.13E-04	0.00E+00	1.04E-04	3.84E-04	0.00E+00
99	587515.3	4154429	1.13E-03	2.69E-03	0.00E+00	2.31E-03	2.72E-03	0.00E+00	1.84E-04	6.12E-04	0.00E+00	1.04E-04	3.83E-04	0.00E+00
100	587520.9	4154437	1.13E-03	2.67E-03	0.00E+00	2.29E-03	2.71E-03	0.00E+00	1.82E-04	6.08E-04	0.00E+00	1.03E-04	3.81E-04	0.00E+00
101	587526.6	4154445	1.11E-03	2.64E-03	0.00E+00	2.26E-03	2.67E-03	0.00E+00	1.80E-04	6.00E-04	0.00E+00	1.01E-04	3.75E-04	0.00E+00
102	587532.2	4154453	1.09E-03	2.58E-03	0.00E+00	2.21E-03	2.61E-03	0.00E+00	1.76E-04	5.87E-04	0.00E+00	9.93E-05	3.68E-04	0.00E+00
103	587537.8	4154462	1.06E-03	2.51E-03	0.00E+00	2.15E-03	2.54E-03	0.00E+00	1.71E-04	5.71E-04	0.00E+00	9.66E-05	3.58E-04	0.00E+00
104	587543.4	4154470	1.02E-03	2.42E-03	0.00E+00	2.08E-03	2.45E-03	0.00E+00	1.65E-04	5.51E-04	0.00E+00	9.32E-05	3.45E-04	0.00E+00
105	587549.1	4154478	9.80E-04	2.32E-03	0.00E+00	1.99E-03	2.35E-03	0.00E+00	1.59E-04	5.29E-04	0.00E+00	8.94E-05	3.31E-04	0.00E+00
106	587490.2	4154410	1.01E-03	2.41E-03	0.00E+00	2.06E-03	2.43E-03	0.00E+00	1.64E-04	5.47E-04	0.00E+00	9.25E-05	3.43E-04	0.00E+00
107	587495.8	4154418	1.02E-03	2.43E-03	0.00E+00	2.08E-03	2.46E-03	0.00E+00	1.66E-04	5.52E-04	0.00E+00	9.33E-05	3.46E-04	0.00E+00
108	587501.4	4154426	1.03E-03	2.44E-03	0.00E+00	2.09E-03	2.47E-03	0.00E+00	1.66E-04	5.54E-04	0.00E+00	9.37E-05	3.47E-04	0.00E+00
109	587507	4154434	1.03E-03	2.43E-03	0.00E+00	2.08E-03	2.46E-03	0.00E+00	1.66E-04	5.54E-04	0.00E+00	9.36E-05	3.47E-04	0.00E+00
110	587512.7	4154443	1.02E-03	2.42E-03	0.00E+00	2.07E-03	2.45E-03	0.00E+00	1.65E-04	5.50E-04	0.00E+00	9.30E-05	3.44E-04	0.00E+00
111	587518.3	4154451	1.00E-03	2.38E-03	0.00E+00	2.04E-03	2.41E-03	0.00E+00	1.63E-04	5.42E-04	0.00E+00	9.18E-05	3.40E-04	0.00E+00
112	587523.9	4154459	9.85E-04	2.34E-03	0.00E+00	2.00E-03	2.37E-03	0.00E+00	1.60E-04	5.32E-04	0.00E+00	9.00E-05	3.33E-04	0.00E+00
113	587529.5	4154467	9.60E-04	2.28E-03	0.00E+00	1.95E-03	2.31E-03	0.00E+00	1.55E-04	5.18E-04	0.00E+00	8.76E-05	3.24E-04	0.00E+00
114	587535.2	4154476	9.29E-04	2.20E-03	0.00E+00	1.89E-03	2.23E-03	0.00E+00	1.50E-04	5.01E-04	0.00E+00	8.48E-05	3.14E-04	0.00E+00
115	587540.8	4154484	8.93E-04	2.12E-03	0.00E+00	1.82E-03	2.15E-03	0.00E+00	1.45E-04	4.82E-04	0.00E+00	8.16E-05	3.02E-04	0.00E+00
116	587481.9	4154415	9.24E-04	2.19E-03	0.00E+00	1.88E-03	2.22E-03	0.00E+00	1.50E-04	4.99E-04	0.00E+00	8.44E-05	3.12E-04	0.00E+00
117	587487.5	4154424	0.000931	2.21E-03	0.00E+00	1.89E-03	2.24E-03	0.00E+00	1.51E-04	5.03E-04	0.00E+00	8.50E-05	3.15E-04	0.00E+00
118	587493.2	4154432	0.000934	2.22E-03	0.00E+00	1.90E-03	2.24E-03	0.00E+00	1.51E-04	5.04E-04	0.00E+00	8.53E-05	3.16E-04	0.00E+00
119	587498.8	4154440	0.000933	2.21E-03	0.00E+00	1.90E-03	2.24E-03	0.00E+00	1.51E-04	5.04E-04	0.00E+00	8.52E-05	3.15E-04	0.00E+00
120	587504.4	4154448	0.000926	2.20E-03	0.00E+00	1.88E-03	2.23E-03	0.00E+00	1.50E-04	5.00E-04	0.00E+00	8.46E-05	3.13E-04	0.00E+00
121	587510	4154457	0.000915	2.17E-03	0.00E+00	1.86E-03	2.20E-03	0.00E+00	1.48E-04	4.94E-04	0.00E+00	8.35E-05	3.09E-04	0.00E+00
122	587515.7	4154465	0.000898	2.13E-03	0.00E+00	1.82E-03	2.16E-03	0.00E+00	1.45E-04	4.85E-04	0.00E+00	8.19E-05	3.03E-04	0.00E+00
123	587521.3	4154473	0.000876	2.08E-03	0.00E+00	1.78E-03	2.10E-03	0.00E+00	1.42E-04	4.73E-04	0.00E+00	7.99E-05	2.96E-04	0.00E+00
124	587526.9	4154481	0.000849	2.02E-03	0.00E+00	1.73E-03	2.04E-03	0.00E+00	1.38E-04	4.58E-04	0.00E+00	7.75E-05	2.87E-04	0.00E+00
125	587532.5	4154489	0.000819	1.94E-03	0.00E+00	1.66E-03	1.97E-03	0.00E+00	1.33E-04	4.42E-04	0.00E+00	7.48E-05	2.77E-04	0.00E+00
126	587473.7	4154421	0.000847	2.01E-03	0.00E+00	1.72E-03	2.03E-03	0.00E+00	1.37E-04	4.57E-04	0.00E+00	7.73E-05	2.86E-04	0.00E+00
127	587479.3	4154429	0.000852	2.02E-03	0.00E+00	1.73E-03	2.05E-03	0.00E+00	1.38E-04	4.60E-04	0.00E+00	7.78E-05	2.88E-04	0.00E+00
128	587484.9	4154438	0.000855	2.03E-03	0.00E+00	1.74E-03	2.05E-03	0.00E+00	1.38E-04	4.61E-04	0.00E+00	7.80E-05	2.89E-04	0.00E+00
129	587490.5	4154446	0.000853	2.02E-03	0.00E+00	1.73E-03	2.05E-03	0.00E+00	1.38E-04	4.60E-04	0.00E+00	7.79E-05	2.88E-04	0.00E+00
130	587496.2	4154454	0.000847	2.01E-03	0.00E+00	1.72E-03	2.03E-03	0.00E+00	1.37E-04	4.57E-04	0.00E+00	7.73E-05	2.86E-04	0.00E+00
131	587501.8	4154462	0.000837	1.99E-03	0.00E+00	1.70E-03	2.01E-03	0.00E+00	1.36E-04	4.52E-04	0.00E+00	7.64E-05	2.83E-04	0.00E+00
132	587507.4	4154470	0.000822	1.95E-03	0.00E+00	1.67E-03	1.97E-03	0.00E+00	1.33E-04	4.44E-04	0.00E+00	7.50E-05	2.78E-04	0.00E+00
133	587513	4154479	0.000803	1.91E-03	0.00E+00	1.63E-03	1.93E-03	0.00E+00	1.30E-04	4.33E-04	0.00E+00	7.33E-05	2.71E-04	0.00E+00
134	587518.7	4154487	0.00078	1.85E-03	0.00E+00	1.59E-03	1.87E-03	0.00E+00	1.26E-04	4.21E-04	0.00E+00	7.12E-05	2.64E-04	0.00E+00
135	587524.3	4154495	0.000754	1.79E-03	0.00E+00	1.53E-03	1.81E-03	0.00E+00	1.22E-04	4.07E-04	0.00E+00	6.88E-05	2.55E-04	0.00E+00
136	587465.4	4154427	0.000779	1.85E-03	0.00E+00	1.58E-03	1.87E-03	0.00E+00	1.26E-04	4.21E-04	0.00E+00	7.11E-05	2.63E-04	0.00E+00
137	587471	4154435	0.000784	1.86E-03	0.00E+00	1.59E-03	1.88E-03	0.00E+00	1.27E-04	4.23E-04	0.00E+00	7.16E-05	2.65E-04	0.00E+00
138	587476.7	4154443	0.000785	1.86E-03	0.00E+00	1.60E-03	1.89E-03	0.00E+00	1.27E-04	4.24E-04	0.00E+00	7.17E-05	2.65E-04	0.00E+00
139	587482.3	4154451	0.000784	1.86E-03	0.00E+00	1.59E-03	1.88E-03	0.00E+00	1.27E-04	4.23E-04	0.00E+00	7.15E-05	2.65E-04	0.00E+00
140	587487.9	4154460	0.000778	1.85E-03	0.00E+00	1.58E-03	1.87E-03	0.00E+00	1.26E-04	4.20E-04	0.00E+00	7.11E-05	2.63E-04	0.00E+00
141	587493.5	4154468	0.000769	1.83E-03	0.00E+00	1.56E-03	1.85E-03	0.00E+00	1.25E-04	4.15E-04	0.00E+00	7.02E-05	2.60E-04	0.00E+00
142	587499.2	4154476	0.000756	1.79E-03	0.00E+00	1.54E-03	1.82E-03	0.00E+00	1.22E-04	4.08E-04	0.00E+00	6.90E-05	2.56E-04	0.00E+00
143	587504.8	4154484	0.000739	1.75E-03	0.00E+00	1.50E-03	1.78E-03	0.00E+00	1.20E-04	3.99E-04	0.00E+00	6.75E-05	2.50E-04	0.00E+00
144	587510.4	4154492	0.000719	1.71E-03	0.00E+00	1.46E-03	1.73E-03	0.00E+00	1.17E-04	3.88E-04	0.00E+00	6.57E-05	2.43E-04	0.00E+00
145	587516	4154501	0.000697	1.65E-03	0.00E+00	1.42E-03	1.67E-03	0.00E+00	1.13E-04	3.76E-04	0.00E+00	6.36E-05	2.36E-04	0.00E+00
146	587457.2	4154432	0.00072	1.71E-03	0.00E+00	1.46E-03	1.73E-03	0.00E+00	1.17E-04	3.89E-04	0.00E+00	6.57E-05	2.43E-04	0.00E+00
147	587462.8	4154441	0.000724	1.72E-03	0.00E+00	1.47E-03	1.74E-03	0.00E+00	1.17E-04	3.91E-04	0.00E+00	6.61E-05	2.45E-04	0.00E+00
148	587468.4	4154449	0.000725	1.72E-03	0.00E+00	1.47E-03	1.74E-03	0.00E+00	1.17E-04	3.91E-04	0.00E+00	6.62E-05	2.45E-04	0.00E+00
149	587474	4154457	0.000723	1.72E-03	0.00E+00	1.47E-03	1.74E-03	0.00E+00	1.17E-04	3.90E-04	0.00E+00	6.60E-05	2.44E-04	0.00E+00
150	587479.7	4154465	0.000718	1.70E-03	0.00E+00	1.46E-03	1.72E-03	0.00E+00	1.16E-04	3.88E-04	0.00E+00	6.56E-05	2.43E-04	0.00E+00
151	587485.3	4154473	0.00071	1.68E-03	0.00E+00	1.44E-03	1.71E-03	0.00E+00	1.15E-04	3.83E-04	0.00E+00	6.48E-05	2.40E-04	0.00E+00
152	587490.9	4154482	0.000698	1.66E-03	0.00E+00	1.42E-03	1.68E-03	0.00E+00	1.13E-04	3.77E-04	0.00E+00	6.38E-05	2.36E-04	0.00E+00
153	587496.5	4154490	0.000684	1.62E-03	0.00E+00	1.39E-03	1.64E-03	0.00E+00	1.11E-04	3.69E-04	0.00E+00	6.24E-05	2.31E-04	0.00E+00
154	587502.2	4154498	0.000666	1.58E-03	0.00E+00	1.35E-03	1.60E-03	0.00E+00	1.08E-04	3.60E-04	0.00E+00	6.08E-05	2.25E-04	0.00E+00
155	587507.8	4154506	0.000646	1.53E-03	0.00E+00	1.31E-03	1.55E-03	0.00E+00	1.05E-04	3.49E-04	0.00E+00	5.90E-05	2.18E-04	0.00E+00
156	587448.9	4154438	0.000668	1.58E-03	0.00E+00	1.36E-03	1.60E-03	0.00E+00	1.08E-04	3.61E-04	0.00E+00	6.10E-05	2.26E-04	0.00E+00
157	587454.5	4154446	0.000671	1.59E-03	0.00E+00	1.36E-03	1.61E-03	0.00E+00	1.09E-04	3.62E-04	0.00E+00	6.12E-05	2.27E-04	0.00E+00
158	587460.2	4154455	0.000671	1.59E-03	0.00E+00	1.36E-03	1.61E-03	0.00E+00	1.09E-04	3.63E-04	0.00E+00	6.13E-05	2.27E-04	0.00E+00
159	587465.8	4154463	0.00067	1.59E-03	0.00E+00	1.36E-03	1.61E-03	0.00E+00	1.08E-04	3.61E-04	0.00E+00	6.11E-05	2.26E-04	0.00E+00
160	587471.4	4154471	0.000665	1.58E-03	0.00E+00	1.35E-03	1.60E-03	0.00E+00	1.08E-04	3.59E-04	0.00E+00	6.07E-05	2.25E-04	0.00E+00
161	587477	4154479	0.000658	1.56E-03	0.00E+00	1.34E-03	1.58E-03	0.00E+00	1.07E-04	3.55E-04	0.00E+00	6.00E-05	2.22E-04	0.00E+00
162	587482.7	4154487	0.000647	1.54E-03	0.00E+00	1.32E-03	1.56E-03	0.00E+00	1.05E-04	3.50E-04	0.00E+00	5.91E-05	2.19E-04	0.00E+00
163	587488.3	4154496	0.000634	1.51E-03	0.00E+00	1.29E-03	1.52E-03	0.00E+00	1.03E-04	3.43E-04	0.00E+00	5.79E-05	2.14E-04	0.00E+00
164	587493.9	4154504	0.000619	1.47E-03	0.00E+00	1.26E-03	1.49E-03	0.00E+00	1.00E-04	3.34E-04	0.00E+00	5.65E-05	2.09E-04	0.00E+00
165	587499.5	4154512	0.000601	1.43E-03	0.00E+00	1.22E-03	1.44E-03	0.00E+00	9.74E-05	3.25E-04	0.00E+00	5.49E-05	2.03E-04	0.00E+00
166	587440.7	4154444	0.000621	1.47E-03	0.00E+00	1.26E-03	1.49E-03	0.00E+00	1.01E-04	3.35E-04	0.00E+00	5.67E-05	2.10E-04	0.00E+00
167	587446.3	4154452	0.000624	1.48E-03	0.00E+00	1.27E-03	1.50E-03	0.00E+00	1.01E-04	3.37E-04	0.00E+00	5.70E-05	2.11E-04	0.00E+00
168	587451.9	4154460	0.000624	1.48E-03	0.00E+00	1.27E-03	1.50E-03	0.00E+00	1.01E-04	3.37E-04	0.00E+00	5.70E-05	2.11E-04	0.00E+00
169	587457.5	4154468	0.000622	1.48E-03	0.00E+00	1.26E-03	1.49E-03	0.00E+00	1.01E-04	3.36E-04	0.00E+00	5.68E-05	2.10E-04	0.00E+00
170	587463.2	4154477	0.000618	1.47E-03	0.00E+00	1.26E-03	1.48E-03	0.00E+00	1.00E-04	3.34E-04	0.00E+00	5.64E-05	2.09E-04	0.00E+00
171	587468.8	4154485	0.000611	1.45E-03	0.00E+00	1.24E-03	1.47E-03	0.00E+00	9.90E-05	3.30E-04	0.00E+00	5.58E-05	2.07E-04	0.00E+00
172	587474.4	4154493	0.000602	1.43E-03	0.00E+00	1.22E-03	1.45E-03	0.00E+00	9.75E-05	3.25E-04	0.00E+00	5.50E-05	2.04E-04	0.00E+00
173	587480	4154501	0.000591	1.40E-03	0.00E+00	1.20E-03	1.42E-03	0.00E+00	9.56E-05	3.19E-04	0.00E+00	5.39E-05	2.00E-04	0.00E+00
174	587485.7	4154509	0.000577	1.37E-03	0.00E+00	1.17E-03	1.39E-03	0.00E+00	9.34E-05	3.11E-04	0.00E+00	5.27E-05	1.95E-04	0.00E+00
175	587491.3	4154518	0.000561	1.33E-03	0.00E+00	1.14E-03	1.35E-03	0.00E+00	9.09E-05	3.03E-04	0.00E+00	5.13E-05	1.90E-04	0.00E+00
176	587432.4	4154449	0.00058	1.38E-03	0.00E+00	1.18E-03	1.39E-03	0.00E+00	9.39E-05	3.13E-04	0.00E+00	5.29E-05	1.96E-04	0.00E+00
177	587438	4154458	0.000582	1.38E-03	0.00E+00	1.18E-03	1.40E-03	0.00E+00	9.42E-05	3.14E-04	0.00E+00	5.31E-05	1.97E-04	0.00E+00
178	587443.7	4154466	0.000582	1.38E-03	0.00E+00	1.18E-03	1.40E-03	0.00E+00	9.43E-05	3.14E-04	0.00E+00	5.31E-05	1.97E-04	0.00E+00
179	587449.3	4154474	0.00058	1.38E-03	0.00E+00	1.18E-03	1.39E-03	0.00E+00	9.40E-05	3.13E-04	0.00E+00	5.30E-05	1.96E-04	0.00E+00
180	587454.9	4154482	0.000576	1.37E-03	0.00E+00	1.17E-03	1.38E-03	0.00E+00	9.33E-05	3.11E-04	0.00E+00	5.26E-05	1.95E-04	0.00E+00
181	587460.5	4154490	0.00057	1.35E-03	0.00E+00	1.16E-03	1.37E-03	0.00E+00	9.23E-05	3.08E-04	0.00E+00	5.21E-05	1.93E-04	0.00E+00
182	587466.2	4154499	0.000562	1.33E-03	0.00E+00	1.14E-03	1.35E-03	0.00E+00	9.10E-05	3.03E-04	0.00E+00	5.13E-05	1.90E-04	0.00E+00
183	587471.8	4154507	0.000551	1.31E-03	0.00E+00	1.12E-03	1.32E-03	0.00E+00	8.93E-05	2.98E-04	0.00E+00	5.03E-05	1.86E-04	0.00E+00
184	587477.4	4154515	0.000539	1.28E-03	0.00E+00	1.10E-03	1.30E-03	0.00E+00	8.73E-05	2.91E-04	0.00E+00	4.92E-05	1.82E-04	0.00E+00
185	587483	4154523	0.000525	1.25E-03	0.00E+00	1.07E-03	1.26E-03	0.00E+00	8.51E-05	2.84E-04	0.00E+00	4.80E-05	1.78E-04	0.00E+00
186	587424.2	4154455	0.000543	1.29E-03	0.00E+00	1.10E-03	1.30E-03	0.00E+00	8.79E-05	2.93E-04	0.00E+00	4.96E-05	1.83E-04	0.00E+00
187	587429.8	4154463	0.000544	1.29E-03	0.00E+00	1.11E-03	1.31E-03	0.00E+00	8.82E-05	2.94E-04	0.00E+00	4.97E-05	1.84E-04	0.00E+00
188	587435.4	4154471	0.000544	1.29E-03	0.00E+00	1.11E-03	1.31E-03	0.00E+00	8.81E-05	2.94E-04	0.00E+00	4.97E-05	1.84E-04	0.00E+00
189	587441	4154480	0.000542	1.29E-03	0.00E+00	1.10E-03	1.30E-03	0.00E+00	8.79E-05	2.93E-04	0.00E+00	4.95E-05	1.83E-04	0.00E+00

190	587446.7	4154488	0.000539	1.28E-03	0.00E+00	1.10E-03	1.29E-03	0.00E+00	8.73E-05	2.91E-04	0.00E+00	4.92E-05	1.82E-04	0.00E+00
191	587452.3	4154496	0.000533	1.27E-03	0.00E+00	1.08E-03	1.28E-03	0.00E+00	8.64E-05	2.88E-04	0.00E+00	4.87E-05	1.80E-04	0.00E+00
192	587457.9	4154504	0.000526	1.25E-03	0.00E+00	1.07E-03	1.26E-03	0.00E+00	8.51E-05	2.84E-04	0.00E+00	4.80E-05	1.78E-04	0.00E+00
193	587463.5	4154513	0.000516	1.23E-03	0.00E+00	1.05E-03	1.24E-03	0.00E+00	8.36E-05	2.79E-04	0.00E+00	4.71E-05	1.75E-04	0.00E+00
194	587469.2	4154521	0.000506	1.20E-03	0.00E+00	1.03E-03	1.21E-03	0.00E+00	8.19E-05	2.73E-04	0.00E+00	4.62E-05	1.71E-04	0.00E+00
195	587474.8	4154529	0.000493	1.17E-03	0.00E+00	1.00E-03	1.18E-03	0.00E+00	7.99E-05	2.66E-04	0.00E+00	4.50E-05	1.67E-04	0.00E+00
196	587415.9	4154461	0.000509	1.21E-03	0.00E+00	1.04E-03	1.22E-03	0.00E+00	8.25E-05	2.75E-04	0.00E+00	4.65E-05	1.72E-04	0.00E+00
197	587421.5	4154469	0.000511	1.21E-03	0.00E+00	1.04E-03	1.23E-03	0.00E+00	8.27E-05	2.76E-04	0.00E+00	4.66E-05	1.73E-04	0.00E+00
198	587427.2	4154477	0.00051	1.21E-03	0.00E+00	1.04E-03	1.23E-03	0.00E+00	8.26E-05	2.76E-04	0.00E+00	4.66E-05	1.73E-04	0.00E+00
199	587432.8	4154485	0.000509	1.21E-03	0.00E+00	1.03E-03	1.22E-03	0.00E+00	8.24E-05	2.75E-04	0.00E+00	4.64E-05	1.72E-04	0.00E+00
200	587438.4	4154494	0.000505	1.20E-03	0.00E+00	1.03E-03	1.21E-03	0.00E+00	8.18E-05	2.73E-04	0.00E+00	4.61E-05	1.71E-04	0.00E+00
201	587444	4154502	0.0005	1.19E-03	0.00E+00	1.02E-03	1.20E-03	0.00E+00	8.10E-05	2.70E-04	0.00E+00	4.57E-05	1.69E-04	0.00E+00
202	587449.7	4154510	0.000493	1.17E-03	0.00E+00	1.00E-03	1.18E-03	0.00E+00	7.99E-05	2.66E-04	0.00E+00	4.50E-05	1.67E-04	0.00E+00
203	587455.3	4154518	0.000485	1.15E-03	0.00E+00	9.85E-04	1.16E-03	0.00E+00	7.85E-05	2.62E-04	0.00E+00	4.43E-05	1.64E-04	0.00E+00
204	587460.9	4154526	0.000475	1.13E-03	0.00E+00	9.65E-04	1.14E-03	0.00E+00	7.69E-05	2.56E-04	0.00E+00	4.34E-05	1.61E-04	0.00E+00
205	587466.5	4154535	0.000464	1.10E-03	0.00E+00	9.43E-04	1.11E-03	0.00E+00	7.51E-05	2.50E-04	0.00E+00	4.23E-05	1.57E-04	0.00E+00
206	587407.7	4154466	0.000479	1.14E-03	0.00E+00	9.74E-04	1.15E-03	0.00E+00	7.76E-05	2.59E-04	0.00E+00	4.37E-05	1.62E-04	0.00E+00
207	587413.3	4154475	0.00048	1.14E-03	0.00E+00	9.76E-04	1.15E-03	0.00E+00	7.77E-05	2.59E-04	0.00E+00	4.38E-05	1.62E-04	0.00E+00
208	587418.9	4154483	0.00048	1.14E-03	0.00E+00	9.75E-04	1.15E-03	0.00E+00	7.77E-05	2.59E-04	0.00E+00	4.38E-05	1.62E-04	0.00E+00
209	587424.5	4154491	0.000478	1.13E-03	0.00E+00	9.71E-04	1.15E-03	0.00E+00	7.74E-05	2.58E-04	0.00E+00	4.36E-05	1.62E-04	0.00E+00
210	587430.2	4154499	0.000475	1.13E-03	0.00E+00	9.65E-04	1.14E-03	0.00E+00	7.69E-05	2.56E-04	0.00E+00	4.33E-05	1.60E-04	0.00E+00
211	587435.8	4154507	0.00047	1.12E-03	0.00E+00	9.56E-04	1.13E-03	0.00E+00	7.61E-05	2.54E-04	0.00E+00	4.29E-05	1.59E-04	0.00E+00
212	587441.4	4154516	0.000464	1.10E-03	0.00E+00	9.43E-04	1.11E-03	0.00E+00	7.51E-05	2.50E-04	0.00E+00	4.24E-05	1.57E-04	0.00E+00
213	587447	4154524	0.000456	1.08E-03	0.00E+00	9.27E-04	1.10E-03	0.00E+00	7.39E-05	2.46E-04	0.00E+00	4.17E-05	1.54E-04	0.00E+00
214	587452.7	4154532	0.000447	1.06E-03	0.00E+00	9.09E-04	1.07E-03	0.00E+00	7.24E-05	2.41E-04	0.00E+00	4.08E-05	1.51E-04	0.00E+00
215	587458.3	4154540	0.000437	1.04E-03	0.00E+00	8.89E-04	1.05E-03	0.00E+00	7.08E-05	2.36E-04	0.00E+00	3.99E-05	1.48E-04	0.00E+00
216	587379.9	4154375	0.000514	1.22E-03	0.00E+00	1.05E-03	1.24E-03	0.00E+00	8.33E-05	2.78E-04	0.00E+00	4.70E-05	1.74E-04	0.00E+00
217	587376	4154356	0.000525	1.25E-03	0.00E+00	1.07E-03	1.26E-03	0.00E+00	8.50E-05	2.83E-04	0.00E+00	4.79E-05	1.77E-04	0.00E+00
218	587374	4154346	0.00053	1.26E-03	0.00E+00	1.08E-03	1.27E-03	0.00E+00	8.59E-05	2.86E-04	0.00E+00	4.84E-05	1.79E-04	0.00E+00
219	587372.1	4154337	0.000536	1.27E-03	0.00E+00	1.09E-03	1.29E-03	0.00E+00	8.68E-05	2.89E-04	0.00E+00	4.89E-05	1.81E-04	0.00E+00
220	587370.1	4154327	0.000541	1.28E-03	0.00E+00	1.10E-03	1.30E-03	0.00E+00	8.77E-05	2.92E-04	0.00E+00	4.94E-05	1.83E-04	0.00E+00
221	587399.4	4154472	0.000451	1.07E-03	0.00E+00	9.18E-04	1.08E-03	0.00E+00	7.31E-05	2.44E-04	0.00E+00	4.12E-05	1.53E-04	0.00E+00
222	587405	4154480	0.000452	1.07E-03	0.00E+00	9.19E-04	1.09E-03	0.00E+00	7.32E-05	2.44E-04	0.00E+00	4.13E-05	1.53E-04	0.00E+00
223	587410.7	4154488	0.000452	1.07E-03	0.00E+00	9.18E-04	1.09E-03	0.00E+00	7.32E-05	2.44E-04	0.00E+00	4.13E-05	1.53E-04	0.00E+00
224	587416.3	4154497	0.00045	1.07E-03	0.00E+00	9.15E-04	1.08E-03	0.00E+00	7.29E-05	2.43E-04	0.00E+00	4.11E-05	1.52E-04	0.00E+00
225	587421.9	4154505	0.000447	1.06E-03	0.00E+00	9.09E-04	1.07E-03	0.00E+00	7.24E-05	2.41E-04	0.00E+00	4.08E-05	1.51E-04	0.00E+00
226	587427.5	4154513	0.000443	1.05E-03	0.00E+00	9.00E-04	1.06E-03	0.00E+00	7.17E-05	2.39E-04	0.00E+00	4.04E-05	1.50E-04	0.00E+00
227	587433.2	4154521	0.000437	1.04E-03	0.00E+00	8.89E-04	1.05E-03	0.00E+00	7.08E-05	2.36E-04	0.00E+00	3.99E-05	1.48E-04	0.00E+00
228	587438.8	4154529	0.00043	1.02E-03	0.00E+00	8.75E-04	1.03E-03	0.00E+00	6.97E-05	2.32E-04	0.00E+00	3.93E-05	1.45E-04	0.00E+00
229	587444.4	4154538	0.000422	1.00E-03	0.00E+00	8.58E-04	1.01E-03	0.00E+00	6.84E-05	2.28E-04	0.00E+00	3.85E-05	1.43E-04	0.00E+00
230	587450	4154546	0.000413	9.80E-04	0.00E+00	8.39E-04	9.92E-04	0.00E+00	6.69E-05	2.23E-04	0.00E+00	3.77E-05	1.40E-04	0.00E+00
231	587371.9	4154382	0.000484	1.15E-03	0.00E+00	9.84E-04	1.16E-03	0.00E+00	7.84E-05	2.61E-04	0.00E+00	4.42E-05	1.64E-04	0.00E+00
232	587369.9	4154372	0.000489	1.16E-03	0.00E+00	9.93E-04	1.17E-03	0.00E+00	7.91E-05	2.64E-04	0.00E+00	4.46E-05	1.65E-04	0.00E+00
233	587368	4154363	0.000493	1.17E-03	0.00E+00	1.00E-03	1.19E-03	0.00E+00	7.99E-05	2.66E-04	0.00E+00	4.50E-05	1.67E-04	0.00E+00
234	587366.1	4154353	0.000498	1.18E-03	0.00E+00	1.01E-03	1.20E-03	0.00E+00	8.07E-05	2.69E-04	0.00E+00	4.55E-05	1.68E-04	0.00E+00
235	587364.1	4154344	0.000503	1.19E-03	0.00E+00	1.02E-03	1.21E-03	0.00E+00	8.15E-05	2.72E-04	0.00E+00	4.59E-05	1.70E-04	0.00E+00
236	587362.2	4154334	0.000508	1.21E-03	0.00E+00	1.03E-03	1.22E-03	0.00E+00	8.23E-05	2.74E-04	0.00E+00	4.64E-05	1.72E-04	0.00E+00
237	587360.3	4154324	0.000513	1.22E-03	0.00E+00	1.04E-03	1.23E-03	0.00E+00	8.32E-05	2.77E-04	0.00E+00	4.69E-05	1.74E-04	0.00E+00
238	587391.2	4154478	0.000426	1.01E-03	0.00E+00	8.67E-04	1.02E-03	0.00E+00	6.91E-05	2.30E-04	0.00E+00	3.89E-05	1.44E-04	0.00E+00
239	587396.8	4154486	0.000427	1.01E-03	0.00E+00	8.68E-04	1.03E-03	0.00E+00	6.92E-05	2.31E-04	0.00E+00	3.90E-05	1.44E-04	0.00E+00
240	587402.4	4154494	0.000427	1.01E-03	0.00E+00	8.67E-04	1.02E-03	0.00E+00	6.91E-05	2.30E-04	0.00E+00	3.89E-05	1.44E-04	0.00E+00
241	587408	4154502	0.000425	1.01E-03	0.00E+00	8.64E-04	1.02E-03	0.00E+00	6.88E-05	2.29E-04	0.00E+00	3.88E-05	1.44E-04	0.00E+00
242	587413.7	4154510	0.000422	1.00E-03	0.00E+00	8.58E-04	1.01E-03	0.00E+00	6.84E-05	2.28E-04	0.00E+00	3.85E-05	1.43E-04	0.00E+00
243	587419.3	4154519	0.000418	9.92E-04	0.00E+00	8.50E-04	1.00E-03	0.00E+00	6.77E-05	2.26E-04	0.00E+00	3.82E-05	1.41E-04	0.00E+00
244	587424.9	4154527	0.000413	9.80E-04	0.00E+00	8.39E-04	9.92E-04	0.00E+00	6.69E-05	2.23E-04	0.00E+00	3.77E-05	1.40E-04	0.00E+00
245	587430.5	4154535	0.000407	9.65E-04	0.00E+00	8.27E-04	9.77E-04	0.00E+00	6.59E-05	2.20E-04	0.00E+00	3.71E-05	1.37E-04	0.00E+00
246	587436.2	4154543	0.000399	9.47E-04	0.00E+00	8.11E-04	9.59E-04	0.00E+00	6.47E-05	2.16E-04	0.00E+00	3.64E-05	1.35E-04	0.00E+00
247	587441.8	4154552	0.000391	9.28E-04	0.00E+00	7.94E-04	9.39E-04	0.00E+00	6.33E-05	2.11E-04	0.00E+00	3.57E-05	1.32E-04	0.00E+00
248	587363.8	4154388	0.000456	1.08E-03	0.00E+00	9.27E-04	1.10E-03	0.00E+00	7.39E-05	2.46E-04	0.00E+00	4.17E-05	1.54E-04	0.00E+00
249	587361.9	4154379	0.000461	1.09E-03	0.00E+00	9.36E-04	1.11E-03	0.00E+00	7.46E-05	2.49E-04	0.00E+00	4.20E-05	1.56E-04	0.00E+00
250	587360	4154369	0.000465	1.10E-03	0.00E+00	9.45E-04	1.12E-03	0.00E+00	7.53E-05	2.51E-04	0.00E+00	4.24E-05	1.57E-04	0.00E+00
251	587358	4154360	0.000469	1.11E-03	0.00E+00	9.54E-04	1.13E-03	0.00E+00	7.60E-05	2.53E-04	0.00E+00	4.28E-05	1.59E-04	0.00E+00
252	587356.1	4154351	0.000474	1.12E-03	0.00E+00	9.63E-04	1.14E-03	0.00E+00	7.67E-05	2.56E-04	0.00E+00	4.32E-05	1.60E-04	0.00E+00
253	587354.2	4154341	0.000478	1.14E-03	0.00E+00	9.72E-04	1.15E-03	0.00E+00	7.75E-05	2.58E-04	0.00E+00	4.37E-05	1.62E-04	0.00E+00
254	587352.3	4154332	0.000483	1.15E-03	0.00E+00	9.82E-04	1.16E-03	0.00E+00	7.82E-05	2.61E-04	0.00E+00	4.41E-05	1.63E-04	0.00E+00
255	587382.9	4154483	0.000404	9.58E-04	0.00E+00	8.20E-04	9.69E-04	0.00E+00	6.53E-05	2.18E-04	0.00E+00	3.68E-05	1.36E-04	0.00E+00
256	587388.5	4154491	0.000404	9.59E-04	0.00E+00	8.21E-04	9.70E-04	0.00E+00	6.54E-05	2.18E-04	0.00E+00	3.69E-05	1.37E-04	0.00E+00
257	587394.2	4154500	0.000403	9.57E-04	0.00E+00	8.20E-04	9.69E-04	0.00E+00	6.53E-05	2.18E-04	0.00E+00	3.68E-05	1.36E-04	0.00E+00
258	587399.8	4154508	0.000402	9.54E-04	0.00E+00	8.17E-04	9.65E-04	0.00E+00	6.51E-05	2.17E-04	0.00E+00	3.67E-05	1.36E-04	0.00E+00
259	587405.4	4154516	0.000399	9.47E-04	0.00E+00	8.12E-04	9.59E-04	0.00E+00	6.47E-05	2.16E-04	0.00E+00	3.65E-05	1.35E-04	0.00E+00
260	587411	4154524	0.000396	9.39E-04	0.00E+00	8.04E-04	9.50E-04	0.00E+00	6.41E-05	2.14E-04	0.00E+00	3.61E-05	1.34E-04	0.00E+00
261	587416.7	4154533	0.000391	9.27E-04	0.00E+00	7.94E-04	9.39E-04	0.00E+00	6.33E-05	2.11E-04	0.00E+00	3.57E-05	1.32E-04	0.00E+00
262	587422.3	4154541	0.000385	9.14E-04	0.00E+00	7.82E-04	9.25E-04	0.00E+00	6.23E-05	2.08E-04	0.00E+00	3.51E-05	1.30E-04	0.00E+00
263	587427.9	4154549	0.000378	8.97E-04	0.00E+00	7.69E-04	9.08E-04	0.00E+00	6.12E-05	2.04E-04	0.00E+00	3.45E-05	1.28E-04	0.00E+00
264	587433.5	4154557	0.000371	8.79E-04	0.00E+00	7.53E-04	8.90E-04	0.00E+00	6.00E-05	2.00E-04	0.00E+00	3.38E-05	1.25E-04	0.00E+00
265	587355.7	4154395	0.000431	1.02E-03	0.00E+00	8.76E-04	1.04E-03	0.00E+00	6.98E-05	2.33E-04	0.00E+00	3.94E-05	1.46E-04	0.00E+00
266	587353.8	4154386	0.000435	1.03E-03	0.00E+00	8.84E-04	1.04E-03	0.00E+00	7.04E-05	2.35E-04	0.00E+00	3.97E-05	1.47E-04	0.00E+00
267	587351.9	4154376	0.000439	1.04E-03	0.00E+00	8.92E-04	1.05E-03	0.00E+00	7.11E-05	2.37E-04	0.00E+00	4.01E-05	1.48E-04	0.00E+00
268	587350	4154367	0.000443	1.05E-03	0.00E+00	9.00E-04	1.06E-03	0.00E+00	7.17E-05	2.39E-04	0.00E+00	4.04E-05	1.50E-04	0.00E+00
269	587348.1	4154357	0.000447	1.06E-03	0.00E+00	9.08E-04	1.07E-03	0.00E+00	7.24E-05	2.41E-04	0.00E+00	4.08E-05	1.51E-04	0.00E+00
270	587346.2	4154348	0.000451	1.07E-03	0.00E+00	9.17E-04	1.08E-03	0.00E+00	7.30E-05	2.43E-04	0.00E+00	4.12E-05	1.52E-04	0.00E+00
271	587344.3	4154339	0.000455	1.08E-03	0.00E+00	9.26E-04	1.09E-03	0.00E+00	7.37E-05	2.46E-04	0.00E+00	4.16E-05	1.54E-04	0.00E+00
272	587374.7	4154489	0.000383	9.08E-04	0.00E+00	7.77E-04	9.19E-04	0.00E+00	6.19E-05	2.06E-04	0.00E+00	3.49E-05	1.29E-04	0.00E+00
273	587380.3	4154497	0.000383	9.08E-04	0.00E+00	7.78E-04	9.20E-04	0.00E+00	6.20E-05	2.07E-04	0.00E+00	3.50E-05	1.29E-04	0.00E+00
274	587385.9	4154505	0.000382	9.07E-04	0.00E+00	7.77E-04	9.18E-04	0.00E+00	6.19E-05	2.06E-04	0.00E+00	3.49E-05	1.29E-04	0.00E+00
275	587391.5	4154514	0.000381	9.04E-04	0.00E+00	7.74E-04	9.15E-04	0.00E+00	6.17E-05	2.06E-04	0.00E+00	3.48E-05	1.29E-04	0.00E+00
276	587397.2	4154522	0.000378	8.98E-04	0.00E+00	7.69E-04	9.09E-04	0.00E+00	6.13E-05	2.04E-04	0.00E+00	3.45E-05	1.28E-04	0.00E+00
277	587402.8	4154530	0.000375	8.90E-04	0.00E+00	7.62E-04	9.00E-04	0.00E+00	6.07E-05	2.02E-04	0.00E+00	3.42E-05	1.27E-04	0.00E+00
278	587408.4	4154538	0.00037	8.79E-04	0.00E+00	7.53E-04	8.90E-04	0.00E+00	6.00E-05	2.00E-04	0.00E+00	3.38E-05	1.25E-04	0.00E+00
279	587414	4154546	0.000365	8.66E-04	0.00E+00	7.42E-04	8.77E-04	0.00E+00	5.91E-05	1.97E-04	0.00E+00	3.33E-05	1.23E-04	0.00E+00
280	587419.7	4154555	0.000359	8.52E-04	0.00E+00	7.29E-04	8.62E-04	0.00E+00	5.81E-05	1.94E-04	0.00E+00	3.28E-05	1.21E-04	0.00E+00
281	587425.3	4154563	0.000352	8.35E-04	0.00E+00	7.15E-04	8.45E-04	0.00E+00	5.70E-05	1.90E-04	0.00E+00	3.21E-05	1.19E-04	0.00E+00
282	587346.7	4154397	0.00041	9.72E-04	0.00E+00	8.33E-04	9.84E-04	0.00E+00	6.64E-05	2.21E-04	0.00E+00	3.74E-05	1.39E-04	0.00E+00
283	587344.8	4154387	0.000413	9.81E-04	0.00E+00	8.40E-04	9.93E-04	0.00E+00	6.69E-05	2.23E-04	0.00E+00	3.77E-05	1.40E-04	0.00E+00
284	587342.8	4154378	0.000417	9.90E-04	0.00E+00	8.48E-04	1.00E-03	0.00E+00	6.75E-05	2.25E-04	0.00E+00	3.81E-05	1.41E-04	0.00E+00
285	587340.8	4154368	0.000421	9.99E-04	0.00E+00	8.55E-04	1.01E-03	0.00E+00	6.82E-05	2.27E-04	0.00E+00	3.84E-05	1.42E-04	0.00E+00

286	587338.9	4154358	0.000425	1.01E-03	0.00E+00	8.63E-04	1.02E-03	0.00E+00	6.88E-05	2.29E-04	0.00E+00	3.88E-05	1.44E-04	0.00E+00
287	587336.9	4154348	0.000429	1.02E-03	0.00E+00	8.72E-04	1.03E-03	0.00E+00	6.94E-05	2.31E-04	0.00E+00	3.92E-05	1.45E-04	0.00E+00
288	587334.9	4154339	0.000433	1.03E-03	0.00E+00	8.80E-04	1.04E-03	0.00E+00	7.01E-05	2.34E-04	0.00E+00	3.95E-05	1.46E-04	0.00E+00
289	587366.4	4154495	0.000363	8.62E-04	0.00E+00	7.38E-04	8.72E-04	0.00E+00	5.88E-05	1.96E-04	0.00E+00	3.32E-05	1.23E-04	0.00E+00
290	587372	4154503	0.000363	8.62E-04	0.00E+00	7.39E-04	8.73E-04	0.00E+00	5.89E-05	1.96E-04	0.00E+00	3.32E-05	1.23E-04	0.00E+00
291	587377.7	4154511	0.000363	8.61E-04	0.00E+00	7.37E-04	8.72E-04	0.00E+00	5.88E-05	1.96E-04	0.00E+00	3.31E-05	1.23E-04	0.00E+00
292	587383.3	4154519	0.000361	8.58E-04	0.00E+00	7.35E-04	8.68E-04	0.00E+00	5.85E-05	1.95E-04	0.00E+00	3.30E-05	1.22E-04	0.00E+00
293	587388.9	4154527	0.000359	8.52E-04	0.00E+00	7.30E-04	8.63E-04	0.00E+00	5.82E-05	1.94E-04	0.00E+00	3.28E-05	1.21E-04	0.00E+00
294	587394.5	4154536	0.000356	8.44E-04	0.00E+00	7.23E-04	8.55E-04	0.00E+00	5.76E-05	1.92E-04	0.00E+00	3.25E-05	1.20E-04	0.00E+00
295	587400.2	4154544	0.000352	8.35E-04	0.00E+00	7.15E-04	8.45E-04	0.00E+00	5.70E-05	1.90E-04	0.00E+00	3.21E-05	1.19E-04	0.00E+00
296	587405.8	4154552	0.000347	8.23E-04	0.00E+00	7.05E-04	8.33E-04	0.00E+00	5.62E-05	1.87E-04	0.00E+00	3.17E-05	1.17E-04	0.00E+00
297	587411.4	4154560	0.000341	8.09E-04	0.00E+00	6.93E-04	8.19E-04	0.00E+00	5.52E-05	1.84E-04	0.00E+00	3.11E-05	1.15E-04	0.00E+00
298	587417	4154569	0.000335	7.94E-04	0.00E+00	6.80E-04	8.04E-04	0.00E+00	5.42E-05	1.81E-04	0.00E+00	3.06E-05	1.13E-04	0.00E+00
299	587338.7	4154404	0.000388	9.22E-04	0.00E+00	7.90E-04	9.33E-04	0.00E+00	6.29E-05	2.10E-04	0.00E+00	3.55E-05	1.31E-04	0.00E+00
300	587336.7	4154394	0.000392	9.30E-04	0.00E+00	7.96E-04	9.41E-04	0.00E+00	6.34E-05	2.11E-04	0.00E+00	3.58E-05	1.32E-04	0.00E+00
301	587334.8	4154384	0.000395	9.38E-04	0.00E+00	8.03E-04	9.49E-04	0.00E+00	6.40E-05	2.13E-04	0.00E+00	3.61E-05	1.34E-04	0.00E+00
302	587332.8	4154375	0.000398	9.46E-04	0.00E+00	8.10E-04	9.57E-04	0.00E+00	6.45E-05	2.15E-04	0.00E+00	3.64E-05	1.35E-04	0.00E+00
303	587330.9	4154365	0.000402	9.54E-04	0.00E+00	8.17E-04	9.66E-04	0.00E+00	6.51E-05	2.17E-04	0.00E+00	3.67E-05	1.36E-04	0.00E+00
304	587328.9	4154355	0.000406	9.63E-04	0.00E+00	8.25E-04	9.75E-04	0.00E+00	6.57E-05	2.19E-04	0.00E+00	3.70E-05	1.37E-04	0.00E+00
305	587327	4154346	0.00041	9.72E-04	0.00E+00	8.32E-04	9.84E-04	0.00E+00	6.63E-05	2.21E-04	0.00E+00	3.74E-05	1.38E-04	0.00E+00
306	587358.2	4154500	0.000345	8.20E-04	0.00E+00	7.02E-04	8.30E-04	0.00E+00	5.59E-05	1.86E-04	0.00E+00	3.15E-05	1.17E-04	0.00E+00
307	587363.8	4154508	0.000346	8.20E-04	0.00E+00	7.02E-04	8.30E-04	0.00E+00	5.60E-05	1.87E-04	0.00E+00	3.15E-05	1.17E-04	0.00E+00
308	587369.4	4154517	0.000345	8.19E-04	0.00E+00	7.01E-04	8.29E-04	0.00E+00	5.59E-05	1.86E-04	0.00E+00	3.15E-05	1.17E-04	0.00E+00
309	587375	4154525	0.000344	8.15E-04	0.00E+00	6.98E-04	8.25E-04	0.00E+00	5.56E-05	1.85E-04	0.00E+00	3.14E-05	1.16E-04	0.00E+00
310	587380.7	4154533	0.000341	8.10E-04	0.00E+00	6.94E-04	8.20E-04	0.00E+00	5.53E-05	1.84E-04	0.00E+00	3.12E-05	1.15E-04	0.00E+00
311	587386.3	4154541	0.000338	8.03E-04	0.00E+00	6.88E-04	8.13E-04	0.00E+00	5.48E-05	1.83E-04	0.00E+00	3.09E-05	1.14E-04	0.00E+00
312	587391.9	4154550	0.000335	7.94E-04	0.00E+00	6.80E-04	8.04E-04	0.00E+00	5.42E-05	1.81E-04	0.00E+00	3.05E-05	1.13E-04	0.00E+00
313	587397.5	4154558	0.00033	7.83E-04	0.00E+00	6.71E-04	7.93E-04	0.00E+00	5.34E-05	1.78E-04	0.00E+00	3.01E-05	1.12E-04	0.00E+00
314	587403.2	4154566	0.000325	7.71E-04	0.00E+00	6.60E-04	7.80E-04	0.00E+00	5.26E-05	1.75E-04	0.00E+00	2.96E-05	1.10E-04	0.00E+00
315	587408.8	4154574	0.000319	7.56E-04	0.00E+00	6.48E-04	7.66E-04	0.00E+00	5.16E-05	1.72E-04	0.00E+00	2.91E-05	1.08E-04	0.00E+00
316	587330.6	4154410	0.000369	8.76E-04	0.00E+00	7.50E-04	8.86E-04	0.00E+00	5.98E-05	1.99E-04	0.00E+00	3.37E-05	1.25E-04	0.00E+00
317	587328.7	4154401	0.000372	8.83E-04	0.00E+00	7.56E-04	8.94E-04	0.00E+00	6.02E-05	2.01E-04	0.00E+00	3.40E-05	1.26E-04	0.00E+00
318	587326.7	4154391	0.000375	8.90E-04	0.00E+00	7.62E-04	9.01E-04	0.00E+00	6.07E-05	2.02E-04	0.00E+00	3.42E-05	1.27E-04	0.00E+00
319	587324.8	4154381	0.000378	8.97E-04	0.00E+00	7.68E-04	9.08E-04	0.00E+00	6.12E-05	2.04E-04	0.00E+00	3.45E-05	1.28E-04	0.00E+00
320	587322.9	4154372	0.000381	9.05E-04	0.00E+00	7.75E-04	9.16E-04	0.00E+00	6.17E-05	2.06E-04	0.00E+00	3.48E-05	1.29E-04	0.00E+00
321	587320.9	4154362	0.000385	9.13E-04	0.00E+00	7.82E-04	9.24E-04	0.00E+00	6.23E-05	2.08E-04	0.00E+00	3.51E-05	1.30E-04	0.00E+00
322	587319	4154353	0.000388	9.21E-04	0.00E+00	7.89E-04	9.32E-04	0.00E+00	6.28E-05	2.09E-04	0.00E+00	3.54E-05	1.31E-04	0.00E+00
323	587349.9	4154506	0.000329	7.81E-04	0.00E+00	6.69E-04	7.90E-04	0.00E+00	5.33E-05	1.78E-04	0.00E+00	3.00E-05	1.11E-04	0.00E+00
324	587355.5	4154514	0.000329	7.81E-04	0.00E+00	6.69E-04	7.90E-04	0.00E+00	5.33E-05	1.78E-04	0.00E+00	3.00E-05	1.11E-04	0.00E+00
325	587361.2	4154522	0.000328	7.79E-04	0.00E+00	6.68E-04	7.89E-04	0.00E+00	5.32E-05	1.77E-04	0.00E+00	3.00E-05	1.11E-04	0.00E+00
326	587366.8	4154531	0.000327	7.76E-04	0.00E+00	6.65E-04	7.86E-04	0.00E+00	5.30E-05	1.77E-04	0.00E+00	2.99E-05	1.11E-04	0.00E+00
327	587372.4	4154539	0.000325	7.71E-04	0.00E+00	6.61E-04	7.81E-04	0.00E+00	5.26E-05	1.75E-04	0.00E+00	2.97E-05	1.10E-04	0.00E+00
328	587378	4154547	0.000322	7.65E-04	0.00E+00	6.55E-04	7.74E-04	0.00E+00	5.22E-05	1.74E-04	0.00E+00	2.94E-05	1.09E-04	0.00E+00
329	587383.7	4154555	0.000319	7.56E-04	0.00E+00	6.48E-04	7.65E-04	0.00E+00	5.16E-05	1.72E-04	0.00E+00	2.91E-05	1.08E-04	0.00E+00
330	587389.3	4154563	0.000314	7.46E-04	0.00E+00	6.39E-04	7.55E-04	0.00E+00	5.09E-05	1.70E-04	0.00E+00	2.87E-05	1.06E-04	0.00E+00
331	587394.9	4154572	0.00031	7.35E-04	0.00E+00	6.29E-04	7.44E-04	0.00E+00	5.01E-05	1.67E-04	0.00E+00	2.83E-05	1.05E-04	0.00E+00
332	587400.5	4154580	0.000304	7.22E-04	0.00E+00	6.18E-04	7.30E-04	0.00E+00	4.92E-05	1.64E-04	0.00E+00	2.78E-05	1.03E-04	0.00E+00
333	587318.7	4154398	0.000356	8.46E-04	0.00E+00	7.25E-04	8.56E-04	0.00E+00	5.77E-05	1.92E-04	0.00E+00	3.25E-05	1.20E-04	0.00E+00
334	587316.8	4154388	0.000359	8.53E-04	0.00E+00	7.30E-04	8.63E-04	0.00E+00	5.82E-05	1.94E-04	0.00E+00	3.28E-05	1.21E-04	0.00E+00
335	587314.8	4154379	0.000362	8.59E-04	0.00E+00	7.36E-04	8.70E-04	0.00E+00	5.86E-05	1.95E-04	0.00E+00	3.31E-05	1.22E-04	0.00E+00
336	587312.9	4154369	0.000365	8.66E-04	0.00E+00	7.42E-04	8.77E-04	0.00E+00	5.91E-05	1.97E-04	0.00E+00	3.33E-05	1.23E-04	0.00E+00
337	587311	4154360	0.000368	8.74E-04	0.00E+00	7.48E-04	8.85E-04	0.00E+00	5.96E-05	1.99E-04	0.00E+00	3.36E-05	1.24E-04	0.00E+00
338	587341.7	4154512	0.000314	7.45E-04	0.00E+00	6.38E-04	7.54E-04	0.00E+00	5.08E-05	1.69E-04	0.00E+00	2.86E-05	1.06E-04	0.00E+00
339	587347.3	4154520	0.000314	7.45E-04	0.00E+00	6.38E-04	7.54E-04	0.00E+00	5.08E-05	1.69E-04	0.00E+00	2.86E-05	1.06E-04	0.00E+00
340	587352.9	4154528	0.000313	7.43E-04	0.00E+00	6.36E-04	7.52E-04	0.00E+00	5.07E-05	1.69E-04	0.00E+00	2.86E-05	1.06E-04	0.00E+00
341	587358.5	4154536	0.000312	7.40E-04	0.00E+00	6.34E-04	7.49E-04	0.00E+00	5.05E-05	1.68E-04	0.00E+00	2.85E-05	1.05E-04	0.00E+00
342	587364.2	4154544	0.00031	7.35E-04	0.00E+00	6.30E-04	7.44E-04	0.00E+00	5.02E-05	1.67E-04	0.00E+00	2.83E-05	1.05E-04	0.00E+00
343	587369.8	4154553	0.000307	7.29E-04	0.00E+00	6.24E-04	7.38E-04	0.00E+00	4.98E-05	1.66E-04	0.00E+00	2.80E-05	1.04E-04	0.00E+00
344	587375.4	4154561	0.000304	7.21E-04	0.00E+00	6.18E-04	7.30E-04	0.00E+00	4.92E-05	1.64E-04	0.00E+00	2.78E-05	1.03E-04	0.00E+00
345	587381	4154569	0.0003	7.12E-04	0.00E+00	6.10E-04	7.21E-04	0.00E+00	4.86E-05	1.62E-04	0.00E+00	2.74E-05	1.01E-04	0.00E+00
346	587386.7	4154577	0.000295	7.01E-04	0.00E+00	6.01E-04	7.10E-04	0.00E+00	4.79E-05	1.60E-04	0.00E+00	2.70E-05	9.99E-05	0.00E+00
347	587392.3	4154585	0.00029	6.89E-04	0.00E+00	5.90E-04	6.97E-04	0.00E+00	4.70E-05	1.57E-04	0.00E+00	2.65E-05	9.82E-05	0.00E+00
348	587781.9	4154320	0.024311	5.77E-02	0.00E+00	4.94E-02	5.84E-02	0.00E+00	3.94E-03	1.31E-02	0.00E+00	2.22E-03	8.22E-03	0.00E+00
349	587776.8	4154312	0.025943	6.16E-02	0.00E+00	5.27E-02	6.23E-02	0.00E+00	4.20E-03	1.40E-02	0.00E+00	2.37E-03	8.77E-03	0.00E+00
350	587790.4	4154315	0.018906	4.49E-02	0.00E+00	3.84E-02	4.54E-02	0.00E+00	3.06E-03	1.02E-02	0.00E+00	1.73E-03	6.39E-03	0.00E+00
351	587785.3	4154307	0.02001	4.75E-02	0.00E+00	4.07E-02	4.81E-02	0.00E+00	3.24E-03	1.08E-02	0.00E+00	1.83E-03	6.76E-03	0.00E+00
352	587798.9	4154310	0.015188	3.60E-02	0.00E+00	3.09E-02	3.65E-02	0.00E+00	2.46E-03	8.20E-03	0.00E+00	1.39E-03	5.13E-03	0.00E+00
353	587793.8	4154302	0.015924	3.78E-02	0.00E+00	3.24E-02	3.83E-02	0.00E+00	2.58E-03	8.60E-03	0.00E+00	1.45E-03	5.38E-03	0.00E+00
354	587783.6	4154285	0.016136	3.83E-02	0.00E+00	3.28E-02	3.88E-02	0.00E+00	2.61E-03	8.71E-03	0.00E+00	1.47E-03	5.45E-03	0.00E+00
355	587778.5	4154277	0.015684	3.72E-02	0.00E+00	3.19E-02	3.77E-02	0.00E+00	2.54E-03	8.47E-03	0.00E+00	1.43E-03	5.30E-03	0.00E+00
356	587773.4	4154269	0.014866	3.53E-02	0.00E+00	3.02E-02	3.57E-02	0.00E+00	2.41E-03	8.03E-03	0.00E+00	1.36E-03	5.03E-03	0.00E+00
357	587768.3	4154261	0.013673	3.24E-02	0.00E+00	2.78E-02	3.28E-02	0.00E+00	2.21E-03	7.38E-03	0.00E+00	1.25E-03	4.62E-03	0.00E+00
358	587763.3	4154253	0.012138	2.88E-02	0.00E+00	2.47E-02	2.92E-02	0.00E+00	1.97E-03	6.55E-03	0.00E+00	1.11E-03	4.10E-03	0.00E+00
359	587758.2	4154245	0.010369	2.46E-02	0.00E+00	2.11E-02	2.49E-02	0.00E+00	1.68E-03	5.60E-03	0.00E+00	9.47E-04	3.51E-03	0.00E+00
360	587807.3	4154305	0.012545	2.98E-02	0.00E+00	2.55E-02	3.01E-02	0.00E+00	2.03E-03	6.77E-03	0.00E+00	1.15E-03	4.24E-03	0.00E+00
361	587802.3	4154296	0.01303	3.09E-02	0.00E+00	2.65E-02	3.13E-02	0.00E+00	2.11E-03	7.03E-03	0.00E+00	1.19E-03	4.40E-03	0.00E+00
362	587792.1	4154280	0.013064	3.10E-02	0.00E+00	2.66E-02	3.14E-02	0.00E+00	2.12E-03	7.05E-03	0.00E+00	1.19E-03	4.42E-03	0.00E+00
363	587787	4154272	0.012645	3.00E-02	0.00E+00	2.57E-02	3.04E-02	0.00E+00	2.05E-03	6.83E-03	0.00E+00	1.15E-03	4.27E-03	0.00E+00
364	587781.9	4154264	0.011951	2.84E-02	0.00E+00	2.43E-02	2.87E-02	0.00E+00	1.94E-03	6.45E-03	0.00E+00	1.09E-03	4.04E-03	0.00E+00
365	587776.8	4154256	0.010997	2.61E-02	0.00E+00	2.24E-02	2.64E-02	0.00E+00	1.78E-03	5.94E-03	0.00E+00	1.00E-03	3.72E-03	0.00E+00
366	587771.7	4154248	0.009837	2.33E-02	0.00E+00	2.00E-02	2.36E-02	0.00E+00	1.59E-03	5.31E-03	0.00E+00	8.98E-04	3.33E-03	0.00E+00
367	587766.7	4154239	0.008572	2.03E-02	0.00E+00	1.74E-02	2.06E-02	0.00E+00	1.39E-03	4.63E-03	0.00E+00	7.83E-04	2.90E-03	0.00E+00
368	587815.8	4154299	0.010576	2.51E-02	0.00E+00	2.15E-02	2.54E-02	0.00E+00	1.71E-03	5.71E-03	0.00E+00	9.66E-04	3.58E-03	0.00E+00
369	587810.7	4154291	0.010892	2.58E-02	0.00E+00	2.21E-02	2.62E-02	0.00E+00	1.76E-03	5.88E-03	0.00E+00	9.94E-04	3.68E-03	0.00E+00
370	587800.6	4154275	0.010815	2.57E-02	0.00E+00	2.20E-02	2.60E-02	0.00E+00	1.75E-03	5.84E-03	0.00E+00	9.87E-04	3.66E-03	0.00E+00
371	587795.5	4154267	0.01044	2.48E-02	0.00E+00	2.12E-02	2.51E-02	0.00E+00	1.69E-03	5.64E-03	0.00E+00	9.53E-04	3.53E-03	0.00E+00
372	587790.4	4154259	0.009861	2.34E-02	0.00E+00	2.00E-02	2.37E-02	0.00E+00	1.60E-03	5.32E-03	0.00E+00	9.00E-04	3.33E-03	0.00E+00
373	587824.3	4154294	0.009054	2.15E-02	0.00E+00	1.84E-02	2.17E-02	0.00E+00	1.47E-03	4.89E-03	0.00E+00	8.27E-04	3.06E-03	0.00E+00
374	587819.2	4154286	0.009257	2.20E-02	0.00E+00	1.88E-02	2.22E-02	0.00E+00	1.50E-03	5.00E-03	0.00E+00	8.45E-04	3.13E-03	0.00E+00
375	587809	4154270	0.009118	2.16E-02	0.00E+00	1.85E-02	2.19E-02	0.00E+00	1.48E-03	4.92E-03	0.00E+00	8.33E-04	3.08E-03	0.00E+00
376	587804	4154261	0.008788	2.09E-02	0.00E+00	1.79E-02	2.11E-02	0.00E+00	1.42E-03	4.74E-03	0.00E+00	8.02E-04	2.97E-03	0.00E+00
377	587798.9	4154253	0.008308	1.97E-02	0.00E+00	1.69E-02	2.00E-02	0.00E+00	1.35E-03	4.49E-03	0.00E+00	7.59E-04	2.81E-03	0.00E+00
378	587793.8	4154245	0.007699	1.83E-02	0.00E+00	1.56E-02	1.85E-02	0.00E+00	1.25E-03	4.16E-03	0.00E+00	7.03E-04	2.60E-03	0.00E+00
379	587788.7	4154237	0.007003	1.66E-02	0.00E+00	1.42E-02	1.68E-02	0.00E+00	1.13E-03	3.78E-03	0.00E+00	6.39E-04	2.37E-03	0.00E+00
380	587832.8	4154289	0.007846	1.86E-02	0.00E+00	1.59E-02	1.88E-02	0.00E+00	1.27E-03	4.24E-03	0.00E+00	7.16E-04	2.65E-03	0.00E+00
381	587827.7	4154281	0.007973	1.89E-02	0.00E+00	1.62E-02	1.92E-02	0.00E+00	1.29E-03	4.30E-03	0.00E+00	7.28E-04	2.70E-03	0.00E+00

382	587817.5	4154264	0.007802	1.85E-02	0.00E+00	1.59E-02	1.87E-02	0.00E+00	1.26E-03	4.21E-03	0.00E+00	7.12E-04	2.64E-03	0.00E+00
383	587812.4	4154256	0.007516	1.78E-02	0.00E+00	1.53E-02	1.81E-02	0.00E+00	1.22E-03	4.06E-03	0.00E+00	6.86E-04	2.54E-03	0.00E+00
384	587807.3	4154248	0.007117	1.69E-02	0.00E+00	1.45E-02	1.71E-02	0.00E+00	1.15E-03	3.84E-03	0.00E+00	6.50E-04	2.41E-03	0.00E+00
385	587802.3	4154240	0.006626	1.57E-02	0.00E+00	1.35E-02	1.59E-02	0.00E+00	1.07E-03	3.58E-03	0.00E+00	6.05E-04	2.24E-03	0.00E+00
386	587841.3	4154283	0.006869	1.63E-02	0.00E+00	1.40E-02	1.65E-02	0.00E+00	1.11E-03	3.71E-03	0.00E+00	6.27E-04	2.32E-03	0.00E+00
387	587836.2	4154275	0.006944	1.65E-02	0.00E+00	1.41E-02	1.67E-02	0.00E+00	1.12E-03	3.75E-03	0.00E+00	6.34E-04	2.35E-03	0.00E+00
388	587826	4154259	0.006762	1.60E-02	0.00E+00	1.37E-02	1.62E-02	0.00E+00	1.10E-03	3.65E-03	0.00E+00	6.17E-04	2.29E-03	0.00E+00
389	587820.9	4154251	0.006515	1.55E-02	0.00E+00	1.32E-02	1.56E-02	0.00E+00	1.06E-03	3.52E-03	0.00E+00	5.95E-04	2.20E-03	0.00E+00
390	587815.8	4154243	0.006182	1.47E-02	0.00E+00	1.26E-02	1.49E-02	0.00E+00	1.00E-03	3.34E-03	0.00E+00	5.64E-04	2.09E-03	0.00E+00
391	587849.7	4154278	0.006068	1.44E-02	0.00E+00	1.23E-02	1.46E-02	0.00E+00	9.83E-04	3.28E-03	0.00E+00	5.54E-04	2.05E-03	0.00E+00
392	587844.7	4154270	0.006108	1.45E-02	0.00E+00	1.24E-02	1.47E-02	0.00E+00	9.89E-04	3.30E-03	0.00E+00	5.58E-04	2.06E-03	0.00E+00
393	587858.2	4154273	0.005401	1.28E-02	0.00E+00	1.10E-02	1.30E-02	0.00E+00	8.75E-04	2.92E-03	0.00E+00	4.93E-04	1.83E-03	0.00E+00
394	587853.1	4154265	0.005418	1.29E-02	0.00E+00	1.10E-02	1.30E-02	0.00E+00	8.77E-04	2.92E-03	0.00E+00	4.95E-04	1.83E-03	0.00E+00
395	587959.2	4154381	0.001788	4.24E-03	0.00E+00	3.63E-03	4.30E-03	0.00E+00	2.90E-04	9.65E-04	0.00E+00	1.63E-04	6.05E-04	0.00E+00
396	587972.6	4154366	0.001765	4.19E-03	0.00E+00	3.59E-03	4.24E-03	0.00E+00	2.86E-04	9.53E-04	0.00E+00	1.61E-04	5.97E-04	0.00E+00
397	587969.1	4154383	0.001665	3.95E-03	0.00E+00	3.39E-03	4.00E-03	0.00E+00	2.70E-04	8.99E-04	0.00E+00	1.52E-04	5.63E-04	0.00E+00
398	587963.9	4154390	0.001649	3.91E-03	0.00E+00	3.35E-03	3.96E-03	0.00E+00	2.67E-04	8.90E-04	0.00E+00	1.51E-04	5.57E-04	0.00E+00
399	587974.4	4154322	0.002013	4.78E-03	0.00E+00	4.09E-03	4.84E-03	0.00E+00	3.26E-04	1.09E-03	0.00E+00	1.84E-04	6.80E-04	0.00E+00
400	587976	4154332	0.001948	4.62E-03	0.00E+00	3.96E-03	4.68E-03	0.00E+00	3.15E-04	1.05E-03	0.00E+00	1.78E-04	6.58E-04	0.00E+00
401	587979.2	4154350	0.001801	4.28E-03	0.00E+00	3.66E-03	4.33E-03	0.00E+00	2.92E-04	9.72E-04	0.00E+00	1.64E-04	6.09E-04	0.00E+00
402	587980.8	4154359	0.001724	4.09E-03	0.00E+00	3.50E-03	4.14E-03	0.00E+00	2.79E-04	9.31E-04	0.00E+00	1.57E-04	5.83E-04	0.00E+00
403	587982.4	4154368	0.001644	3.90E-03	0.00E+00	3.34E-03	3.95E-03	0.00E+00	2.66E-04	8.88E-04	0.00E+00	1.50E-04	5.56E-04	0.00E+00
404	587978.9	4154385	0.001555	3.69E-03	0.00E+00	3.16E-03	3.74E-03	0.00E+00	2.52E-04	8.39E-04	0.00E+00	1.42E-04	5.26E-04	0.00E+00
405	587982.6	4154316	0.001926	4.57E-03	0.00E+00	3.92E-03	4.63E-03	0.00E+00	3.12E-04	1.04E-03	0.00E+00	1.76E-04	6.51E-04	0.00E+00
406	587984.2	4154325	0.001871	4.44E-03	0.00E+00	3.80E-03	4.50E-03	0.00E+00	3.03E-04	1.01E-03	0.00E+00	1.71E-04	6.33E-04	0.00E+00
407	587985.8	4154334	0.001811	4.30E-03	0.00E+00	3.68E-03	4.35E-03	0.00E+00	2.93E-04	9.77E-04	0.00E+00	1.65E-04	6.12E-04	0.00E+00
408	587987.4	4154343	0.001746	4.14E-03	0.00E+00	3.55E-03	4.19E-03	0.00E+00	2.83E-04	9.42E-04	0.00E+00	1.59E-04	5.90E-04	0.00E+00
409	587989	4154352	0.001678	3.98E-03	0.00E+00	3.41E-03	4.03E-03	0.00E+00	2.72E-04	9.06E-04	0.00E+00	1.53E-04	5.67E-04	0.00E+00
410	587990.6	4154361	0.001607	3.81E-03	0.00E+00	3.27E-03	3.86E-03	0.00E+00	2.60E-04	8.68E-04	0.00E+00	1.47E-04	5.43E-04	0.00E+00
411	587992.2	4154370	0.001536	3.65E-03	0.00E+00	3.12E-03	3.69E-03	0.00E+00	2.49E-04	8.29E-04	0.00E+00	1.40E-04	5.19E-04	0.00E+00
412	587973.6	4154409	0.001401	3.32E-03	0.00E+00	2.85E-03	3.37E-03	0.00E+00	2.27E-04	7.56E-04	0.00E+00	1.28E-04	4.74E-04	0.00E+00
413	587993.6	4154325	0.001762	4.18E-03	0.00E+00	3.58E-03	4.23E-03	0.00E+00	2.85E-04	9.51E-04	0.00E+00	1.61E-04	5.96E-04	0.00E+00
414	587995.3	4154334	0.001704	4.04E-03	0.00E+00	3.46E-03	4.09E-03	0.00E+00	2.76E-04	9.20E-04	0.00E+00	1.56E-04	5.76E-04	0.00E+00
415	587996.9	4154343	0.001642	3.90E-03	0.00E+00	3.34E-03	3.94E-03	0.00E+00	2.66E-04	8.86E-04	0.00E+00	1.50E-04	5.55E-04	0.00E+00
416	587998.6	4154353	0.001577	3.74E-03	0.00E+00	3.20E-03	3.79E-03	0.00E+00	2.55E-04	8.51E-04	0.00E+00	1.44E-04	5.33E-04	0.00E+00
417	588000.3	4154362	0.00151	3.58E-03	0.00E+00	3.07E-03	3.63E-03	0.00E+00	2.45E-04	8.15E-04	0.00E+00	1.38E-04	5.10E-04	0.00E+00
418	588001.9	4154372	0.001442	3.42E-03	0.00E+00	2.93E-03	3.46E-03	0.00E+00	2.33E-04	7.78E-04	0.00E+00	1.32E-04	4.87E-04	0.00E+00
419	587993	4154397	0.001352	3.21E-03	0.00E+00	2.75E-03	3.25E-03	0.00E+00	2.19E-04	7.30E-04	0.00E+00	1.23E-04	4.57E-04	0.00E+00
420	588008.5	4154355	0.001475	3.50E-03	0.00E+00	3.00E-03	3.54E-03	0.00E+00	2.39E-04	7.96E-04	0.00E+00	1.35E-04	4.99E-04	0.00E+00
421	588010.1	4154365	0.001414	3.36E-03	0.00E+00	2.87E-03	3.40E-03	0.00E+00	2.29E-04	7.63E-04	0.00E+00	1.29E-04	4.78E-04	0.00E+00
422	588008.2	4154391	0.001283	3.04E-03	0.00E+00	2.61E-03	3.08E-03	0.00E+00	2.08E-04	6.93E-04	0.00E+00	1.17E-04	4.34E-04	0.00E+00
423	588031.4	4154378	0.001198	2.84E-03	0.00E+00	2.44E-03	2.88E-03	0.00E+00	1.94E-04	6.47E-04	0.00E+00	1.09E-04	4.05E-04	0.00E+00
424	588027.8	4154395	0.00114	2.71E-03	0.00E+00	2.32E-03	2.74E-03	0.00E+00	1.85E-04	6.16E-04	0.00E+00	1.04E-04	3.85E-04	0.00E+00
425	588039.6	4154371	0.001177	2.79E-03	0.00E+00	2.39E-03	2.83E-03	0.00E+00	1.91E-04	6.35E-04	0.00E+00	1.07E-04	3.98E-04	0.00E+00
426	588041.2	4154380	0.001131	2.68E-03	0.00E+00	2.30E-03	2.72E-03	0.00E+00	1.83E-04	6.10E-04	0.00E+00	1.03E-04	3.82E-04	0.00E+00
427	588037.7	4154397	0.001078	2.56E-03	0.00E+00	2.19E-03	2.59E-03	0.00E+00	1.75E-04	5.82E-04	0.00E+00	9.84E-05	3.64E-04	0.00E+00
428	588032.6	4154404	0.001069	2.54E-03	0.00E+00	2.17E-03	2.57E-03	0.00E+00	1.73E-04	5.77E-04	0.00E+00	9.76E-05	3.61E-04	0.00E+00
429	588049.2	4154373	0.001115	2.65E-03	0.00E+00	2.27E-03	2.68E-03	0.00E+00	1.81E-04	6.02E-04	0.00E+00	1.02E-04	3.77E-04	0.00E+00
430	588050.9	4154382	0.001071	2.54E-03	0.00E+00	2.18E-03	2.57E-03	0.00E+00	1.73E-04	5.78E-04	0.00E+00	9.78E-05	3.62E-04	0.00E+00
431	588047.3	4154399	0.00102	2.42E-03	0.00E+00	2.07E-03	2.45E-03	0.00E+00	1.65E-04	5.51E-04	0.00E+00	9.31E-05	3.45E-04	0.00E+00
432	588042	4154407	0.001012	2.40E-03	0.00E+00	2.06E-03	2.43E-03	0.00E+00	1.64E-04	5.46E-04	0.00E+00	9.24E-05	3.42E-04	0.00E+00
433	588036.7	4154415	0.001	2.37E-03	0.00E+00	2.03E-03	2.40E-03	0.00E+00	1.62E-04	5.40E-04	0.00E+00	9.13E-05	3.38E-04	0.00E+00
434	588060.7	4154384	0.001014	2.41E-03	0.00E+00	2.06E-03	2.44E-03	0.00E+00	1.64E-04	5.47E-04	0.00E+00	9.26E-05	3.43E-04	0.00E+00
435	588057.1	4154401	0.000968	2.30E-03	0.00E+00	1.97E-03	2.32E-03	0.00E+00	1.57E-04	5.22E-04	0.00E+00	8.83E-05	3.27E-04	0.00E+00
436	588051.9	4154409	0.00096	2.28E-03	0.00E+00	1.95E-03	2.31E-03	0.00E+00	1.55E-04	5.18E-04	0.00E+00	8.76E-05	3.24E-04	0.00E+00
437	588046.7	4154417	0.000949	2.25E-03	0.00E+00	1.93E-03	2.28E-03	0.00E+00	1.54E-04	5.13E-04	0.00E+00	8.67E-05	3.21E-04	0.00E+00
438	588041.4	4154425	0.000937	2.22E-03	0.00E+00	1.90E-03	2.25E-03	0.00E+00	1.52E-04	5.06E-04	0.00E+00	8.56E-05	3.17E-04	0.00E+00
439	588057.4	4154313	0.001239	2.94E-03	0.00E+00	2.52E-03	2.98E-03	0.00E+00	2.01E-04	6.69E-04	0.00E+00	1.13E-04	4.19E-04	0.00E+00
440	588059.1	4154322	0.001209	2.87E-03	0.00E+00	2.46E-03	2.90E-03	0.00E+00	1.96E-04	6.53E-04	0.00E+00	1.10E-04	4.09E-04	0.00E+00
441	588067	4154403	0.000919	2.18E-03	0.00E+00	1.87E-03	2.21E-03	0.00E+00	1.49E-04	4.96E-04	0.00E+00	8.39E-05	3.11E-04	0.00E+00
442	588061.8	4154411	0.000912	2.16E-03	0.00E+00	1.85E-03	2.19E-03	0.00E+00	1.48E-04	4.92E-04	0.00E+00	8.32E-05	3.08E-04	0.00E+00
443	588056.6	4154419	0.000902	2.14E-03	0.00E+00	1.83E-03	2.17E-03	0.00E+00	1.46E-04	4.87E-04	0.00E+00	8.24E-05	3.05E-04	0.00E+00
444	588051.4	4154426	0.000891	2.11E-03	0.00E+00	1.81E-03	2.14E-03	0.00E+00	1.44E-04	4.81E-04	0.00E+00	8.14E-05	3.01E-04	0.00E+00
445	588046.2	4154434	0.000878	2.08E-03	0.00E+00	1.78E-03	2.11E-03	0.00E+00	1.42E-04	4.74E-04	0.00E+00	8.02E-05	2.97E-04	0.00E+00
446	588020.3	4154473	0.000785	1.86E-03	0.00E+00	1.60E-03	1.89E-03	0.00E+00	1.27E-04	4.24E-04	0.00E+00	7.17E-05	2.65E-04	0.00E+00
447	588065.7	4154306	0.001198	2.84E-03	0.00E+00	2.43E-03	2.88E-03	0.00E+00	1.94E-04	6.46E-04	0.00E+00	1.09E-04	4.05E-04	0.00E+00
448	588067.3	4154315	0.001171	2.78E-03	0.00E+00	2.38E-03	2.81E-03	0.00E+00	1.90E-04	6.32E-04	0.00E+00	1.07E-04	3.96E-04	0.00E+00
449	588068.9	4154325	0.001143	2.71E-03	0.00E+00	2.32E-03	2.74E-03	0.00E+00	1.85E-04	6.17E-04	0.00E+00	1.04E-04	3.86E-04	0.00E+00
450	588070.6	4154334	0.001113	2.64E-03	0.00E+00	2.26E-03	2.67E-03	0.00E+00	1.80E-04	6.01E-04	0.00E+00	1.02E-04	3.76E-04	0.00E+00
451	588072.2	4154343	0.001082	2.57E-03	0.00E+00	2.20E-03	2.60E-03	0.00E+00	1.75E-04	5.84E-04	0.00E+00	9.88E-05	3.66E-04	0.00E+00
452	588076.8	4154405	0.000874	2.07E-03	0.00E+00	1.78E-03	2.10E-03	0.00E+00	1.42E-04	4.72E-04	0.00E+00	7.98E-05	2.95E-04	0.00E+00
453	588071.6	4154413	0.000867	2.06E-03	0.00E+00	1.76E-03	2.08E-03	0.00E+00	1.40E-04	4.68E-04	0.00E+00	7.92E-05	2.93E-04	0.00E+00
454	588066.5	4154421	0.000859	2.04E-03	0.00E+00	1.75E-03	2.06E-03	0.00E+00	1.39E-04	4.64E-04	0.00E+00	7.84E-05	2.90E-04	0.00E+00
455	588061.4	4154428	0.000848	2.01E-03	0.00E+00	1.72E-03	2.04E-03	0.00E+00	1.37E-04	4.58E-04	0.00E+00	7.75E-05	2.87E-04	0.00E+00
456	588056.2	4154436	0.000837	1.99E-03	0.00E+00	1.70E-03	2.01E-03	0.00E+00	1.35E-04	4.52E-04	0.00E+00	7.64E-05	2.83E-04	0.00E+00
457	588035.6	4154467	0.000772	1.83E-03	0.00E+00	1.57E-03	1.86E-03	0.00E+00	1.25E-04	4.17E-04	0.00E+00	7.05E-05	2.61E-04	0.00E+00
458	588030.5	4154474	0.000753	1.79E-03	0.00E+00	1.53E-03	1.81E-03	0.00E+00	1.22E-04	4.06E-04	0.00E+00	6.87E-05	2.54E-04	0.00E+00
459	588025.4	4154482	0.000732	1.74E-03	0.00E+00	1.49E-03	1.76E-03	0.00E+00	1.19E-04	3.95E-04	0.00E+00	6.68E-05	2.47E-04	0.00E+00
460	588020.2	4154490	0.00071	1.68E-03	0.00E+00	1.44E-03	1.70E-03	0.00E+00	1.15E-04	3.83E-04	0.00E+00	6.48E-05	2.40E-04	0.00E+00

			UnMitigated		T3		T3L3		T4	
				6.80E-02		1.38E-01		1.10E-02		6.21E-03
			Yr 1	Total	Yr 1	Total	Yr 1	Total	Yr 1	Total
1	587586.6	4154356	6.25E-02	6.25E-02	1.27E-01	1.27E-01	1.01E-02	1.01E-02	5.71E-03	5.71E-03
2	587592.2	4154364	6.59E-02	6.59E-02	1.34E-01	1.34E-01	1.07E-02	1.07E-02	6.02E-03	6.02E-03
3	587597.8	4154372	6.77E-02	6.77E-02	1.38E-01	1.38E-01	1.10E-02	1.10E-02	6.18E-03	6.18E-03
4	587603.4	4154381	6.80E-02	6.80E-02	1.38E-01	1.38E-01	1.10E-02	1.10E-02	6.21E-03	6.21E-03
5	587609.1	4154389	6.73E-02	6.73E-02	1.37E-01	1.37E-01	1.09E-02	1.09E-02	6.14E-03	6.14E-03
6	587614.7	4154397	6.52E-02	6.52E-02	1.33E-01	1.33E-01	1.06E-02	1.06E-02	5.95E-03	5.95E-03
7	587620.3	4154405	6.17E-02	6.17E-02	1.25E-01	1.25E-01	1.00E-02	1.00E-02	5.64E-03	5.64E-03
8	587625.9	4154413	5.69E-02	5.69E-02	1.16E-01	1.16E-01	9.21E-03	9.21E-03	5.19E-03	5.19E-03
9	587631.6	4154422	5.05E-02	5.05E-02	1.03E-01	1.03E-01	8.18E-03	8.18E-03	4.61E-03	4.61E-03
10	587578.3	4154362	4.90E-02	4.90E-02	9.96E-02	9.96E-02	7.93E-03	7.93E-03	4.47E-03	4.47E-03
11	587583.9	4154370	5.10E-02	5.10E-02	1.04E-01	1.04E-01	8.26E-03	8.26E-03	4.66E-03	4.66E-03
12	587589.6	4154378	5.20E-02	5.20E-02	1.06E-01	1.06E-01	8.42E-03	8.42E-03	4.75E-03	4.75E-03
13	587595.2	4154386	5.20E-02	5.20E-02	1.06E-01	1.06E-01	8.42E-03	8.42E-03	4.75E-03	4.75E-03
14	587600.8	4154394	5.10E-02	5.10E-02	1.04E-01	1.04E-01	8.26E-03	8.26E-03	4.66E-03	4.66E-03
15	587606.4	4154403	4.93E-02	4.93E-02	1.00E-01	1.00E-01	7.98E-03	7.98E-03	4.50E-03	4.50E-03
16	587612.1	4154411	4.67E-02	4.67E-02	9.48E-02	9.48E-02	7.56E-03	7.56E-03	4.26E-03	4.26E-03
17	587617.7	4154419	4.32E-02	4.32E-02	8.78E-02	8.78E-02	6.99E-03	6.99E-03	3.94E-03	3.94E-03
18	587623.3	4154427	3.90E-02	3.90E-02	7.92E-02	7.92E-02	6.31E-03	6.31E-03	3.56E-03	3.56E-03
19	587570.1	4154367	3.95E-02	3.95E-02	8.02E-02	8.02E-02	6.39E-03	6.39E-03	3.60E-03	3.60E-03
20	587575.7	4154375	4.07E-02	4.07E-02	8.28E-02	8.28E-02	6.59E-03	6.59E-03	3.72E-03	3.72E-03
21	587581.3	4154384	4.13E-02	4.13E-02	8.39E-02	8.39E-02	6.69E-03	6.69E-03	3.77E-03	3.77E-03
22	587586.9	4154392	4.11E-02	4.11E-02	8.36E-02	8.36E-02	6.66E-03	6.66E-03	3.75E-03	3.75E-03
23	587592.6	4154400	4.03E-02	4.03E-02	8.19E-02	8.19E-02	6.53E-03	6.53E-03	3.68E-03	3.68E-03
24	587598.2	4154408	3.89E-02	3.89E-02	7.90E-02	7.90E-02	6.30E-03	6.30E-03	3.55E-03	3.55E-03
25	587603.8	4154416	3.69E-02	3.69E-02	7.51E-02	7.51E-02	5.98E-03	5.98E-03	3.37E-03	3.37E-03
26	587609.4	4154425	3.44E-02	3.44E-02	6.99E-02	6.99E-02	5.57E-03	5.57E-03	3.14E-03	3.14E-03
27	587615.1	4154433	3.14E-02	3.14E-02	6.39E-02	6.39E-02	5.09E-03	5.09E-03	2.87E-03	2.87E-03
28	587556.2	4154365	3.13E-02	3.13E-02	6.37E-02	6.37E-02	5.07E-03	5.07E-03	2.86E-03	2.86E-03
29	587561.8	4154373	3.25E-02	3.25E-02	6.61E-02	6.61E-02	5.26E-03	5.26E-03	2.97E-03	2.97E-03
30	587567.4	4154381	3.33E-02	3.33E-02	6.77E-02	6.77E-02	5.40E-03	5.40E-03	3.04E-03	3.04E-03
31	587573.1	4154389	3.37E-02	3.37E-02	6.84E-02	6.84E-02	5.45E-03	5.45E-03	3.07E-03	3.07E-03
32	587578.7	4154397	3.34E-02	3.34E-02	6.80E-02	6.80E-02	5.42E-03	5.42E-03	3.05E-03	3.05E-03
33	587584.3	4154406	3.28E-02	3.28E-02	6.66E-02	6.66E-02	5.31E-03	5.31E-03	2.99E-03	2.99E-03
34	587589.9	4154414	3.17E-02	3.17E-02	6.44E-02	6.44E-02	5.13E-03	5.13E-03	2.89E-03	2.89E-03
35	587595.6	4154422	3.02E-02	3.02E-02	6.14E-02	6.14E-02	4.89E-03	4.89E-03	2.76E-03	2.76E-03
36	587601.2	4154430	2.83E-02	2.83E-02	5.76E-02	5.76E-02	4.59E-03	4.59E-03	2.59E-03	2.59E-03
37	587606.8	4154439	2.62E-02	2.62E-02	5.32E-02	5.32E-02	4.24E-03	4.24E-03	2.39E-03	2.39E-03
38	587547.9	4154370	2.65E-02	2.65E-02	5.39E-02	5.39E-02	4.30E-03	4.30E-03	2.42E-03	2.42E-03
39	587553.6	4154378	2.73E-02	2.73E-02	5.55E-02	5.55E-02	4.42E-03	4.42E-03	2.49E-03	2.49E-03
40	587559.2	4154387	2.79E-02	2.79E-02	5.66E-02	5.66E-02	4.51E-03	4.51E-03	2.54E-03	2.54E-03
41	587564.8	4154395	2.80E-02	2.80E-02	5.70E-02	5.70E-02	4.54E-03	4.54E-03	2.56E-03	2.56E-03
42	587570.4	4154403	2.79E-02	2.79E-02	5.66E-02	5.66E-02	4.51E-03	4.51E-03	2.54E-03	2.54E-03
43	587576.1	4154411	2.73E-02	2.73E-02	5.55E-02	5.55E-02	4.42E-03	4.42E-03	2.49E-03	2.49E-03
44	587581.7	4154420	2.65E-02	2.65E-02	5.38E-02	5.38E-02	4.29E-03	4.29E-03	2.42E-03	2.42E-03
45	587587.3	4154428	2.53E-02	2.53E-02	5.14E-02	5.14E-02	4.10E-03	4.10E-03	2.31E-03	2.31E-03
46	587592.9	4154436	2.39E-02	2.39E-02	4.86E-02	4.86E-02	3.87E-03	3.87E-03	2.18E-03	2.18E-03
47	587598.6	4154444	2.23E-02	2.23E-02	4.52E-02	4.52E-02	3.61E-03	3.61E-03	2.03E-03	2.03E-03
48	587539.7	4154376	2.28E-02	2.28E-02	4.64E-02	4.64E-02	3.69E-03	3.69E-03	2.08E-03	2.08E-03
49	587545.3	4154384	2.34E-02	2.34E-02	4.75E-02	4.75E-02	3.78E-03	3.78E-03	2.13E-03	2.13E-03
50	587550.9	4154392	2.37E-02	2.37E-02	4.82E-02	4.82E-02	3.84E-03	3.84E-03	2.16E-03	2.16E-03
51	587556.6	4154401	2.38E-02	2.38E-02	4.84E-02	4.84E-02	3.85E-03	3.85E-03	2.17E-03	2.17E-03
52	587562.2	4154409	2.36E-02	2.36E-02	4.80E-02	4.80E-02	3.83E-03	3.83E-03	2.16E-03	2.16E-03
53	587567.8	4154417	2.32E-02	2.32E-02	4.72E-02	4.72E-02	3.76E-03	3.76E-03	2.12E-03	2.12E-03
54	587573.4	4154425	2.25E-02	2.25E-02	4.58E-02	4.58E-02	3.65E-03	3.65E-03	2.06E-03	2.06E-03
55	587579.1	4154433	2.16E-02	2.16E-02	4.40E-02	4.40E-02	3.50E-03	3.50E-03	1.97E-03	1.97E-03
56	587584.7	4154442	2.05E-02	2.05E-02	4.17E-02	4.17E-02	3.32E-03	3.32E-03	1.87E-03	1.87E-03
57	587590.3	4154450	1.93E-02	1.93E-02	3.91E-02	3.91E-02	3.12E-03	3.12E-03	1.76E-03	1.76E-03
58	587537.1	4154390	2.02E-02	2.02E-02	4.11E-02	4.11E-02	3.28E-03	3.28E-03	1.85E-03	1.85E-03
59	587542.7	4154398	2.05E-02	2.05E-02	4.16E-02	4.16E-02	3.31E-03	3.31E-03	1.87E-03	1.87E-03
60	587548.3	4154406	2.05E-02	2.05E-02	4.17E-02	4.17E-02	3.32E-03	3.32E-03	1.87E-03	1.87E-03
61	587553.9	4154414	2.04E-02	2.04E-02	4.14E-02	4.14E-02	3.30E-03	3.30E-03	1.86E-03	1.86E-03
62	587559.6	4154423	2.00E-02	2.00E-02	4.07E-02	4.07E-02	3.24E-03	3.24E-03	1.83E-03	1.83E-03
63	587565.2	4154431	1.95E-02	1.95E-02	3.96E-02	3.96E-02	3.16E-03	3.16E-03	1.78E-03	1.78E-03
64	587570.8	4154439	1.88E-02	1.88E-02	3.82E-02	3.82E-02	3.04E-03	3.04E-03	1.71E-03	1.71E-03
65	587576.4	4154447	1.79E-02	1.79E-02	3.64E-02	3.64E-02	2.90E-03	2.90E-03	1.63E-03	1.63E-03
66	587582.1	4154456	1.69E-02	1.69E-02	3.43E-02	3.43E-02	2.74E-03	2.74E-03	1.54E-03	1.54E-03
67	587528.8	4154395	1.77E-02	1.77E-02	3.60E-02	3.60E-02	2.87E-03	2.87E-03	1.62E-03	1.62E-03
68	587534.4	4154404	1.79E-02	1.79E-02	3.64E-02	3.64E-02	2.90E-03	2.90E-03	1.63E-03	1.63E-03
69	587540.1	4154412	1.79E-02	1.79E-02	3.64E-02	3.64E-02	2.90E-03	2.90E-03	1.64E-03	1.64E-03
70	587545.7	4154420	1.78E-02	1.78E-02	3.62E-02	3.62E-02	2.88E-03	2.88E-03	1.62E-03	1.62E-03

71	587551.3	4154428	1.75E-02	1.75E-02	3.56E-02	3.56E-02	2.84E-03	2.84E-03	1.60E-03	1.60E-03
72	587556.9	4154437	1.71E-02	1.71E-02	3.47E-02	3.47E-02	2.76E-03	2.76E-03	1.56E-03	1.56E-03
73	587562.6	4154445	1.65E-02	1.65E-02	3.35E-02	3.35E-02	2.67E-03	2.67E-03	1.51E-03	1.51E-03
74	587568.2	4154453	1.58E-02	1.58E-02	3.21E-02	3.21E-02	2.56E-03	2.56E-03	1.44E-03	1.44E-03
75	587573.8	4154461	1.50E-02	1.50E-02	3.04E-02	3.04E-02	2.42E-03	2.42E-03	1.37E-03	1.37E-03
76	587514.9	4154393	1.55E-02	1.55E-02	3.15E-02	3.15E-02	2.51E-03	2.51E-03	1.41E-03	1.41E-03
77	587520.6	4154401	1.57E-02	1.57E-02	3.19E-02	3.19E-02	2.54E-03	2.54E-03	1.43E-03	1.43E-03
78	587526.2	4154409	1.58E-02	1.58E-02	3.21E-02	3.21E-02	2.56E-03	2.56E-03	1.44E-03	1.44E-03
79	587531.8	4154418	1.58E-02	1.58E-02	3.22E-02	3.22E-02	2.56E-03	2.56E-03	1.44E-03	1.44E-03
80	587537.4	4154426	1.57E-02	1.57E-02	3.19E-02	3.19E-02	2.54E-03	2.54E-03	1.43E-03	1.43E-03
81	587543.1	4154434	1.55E-02	1.55E-02	3.14E-02	3.14E-02	2.51E-03	2.51E-03	1.41E-03	1.41E-03
82	587548.7	4154442	1.51E-02	1.51E-02	3.07E-02	3.07E-02	2.45E-03	2.45E-03	1.38E-03	1.38E-03
83	587554.3	4154450	1.46E-02	1.46E-02	2.97E-02	2.97E-02	2.37E-03	2.37E-03	1.34E-03	1.34E-03
84	587559.9	4154459	1.41E-02	1.41E-02	2.86E-02	2.86E-02	2.28E-03	2.28E-03	1.28E-03	1.28E-03
85	587565.6	4154467	1.34E-02	1.34E-02	2.72E-02	2.72E-02	2.17E-03	2.17E-03	1.22E-03	1.22E-03
86	587506.7	4154399	1.39E-02	1.39E-02	2.82E-02	2.82E-02	2.24E-03	2.24E-03	1.26E-03	1.26E-03
87	587512.3	4154407	1.40E-02	1.40E-02	2.85E-02	2.85E-02	2.27E-03	2.27E-03	1.28E-03	1.28E-03
88	587517.9	4154415	1.41E-02	1.41E-02	2.86E-02	2.86E-02	2.28E-03	2.28E-03	1.29E-03	1.29E-03
89	587523.6	4154423	1.41E-02	1.41E-02	2.86E-02	2.86E-02	2.28E-03	2.28E-03	1.29E-03	1.29E-03
90	587529.2	4154431	1.40E-02	1.40E-02	2.84E-02	2.84E-02	2.27E-03	2.27E-03	1.28E-03	1.28E-03
91	587534.8	4154440	1.38E-02	1.38E-02	2.80E-02	2.80E-02	2.23E-03	2.23E-03	1.26E-03	1.26E-03
92	587540.4	4154448	1.35E-02	1.35E-02	2.74E-02	2.74E-02	2.18E-03	2.18E-03	1.23E-03	1.23E-03
93	587546.1	4154456	1.31E-02	1.31E-02	2.66E-02	2.66E-02	2.12E-03	2.12E-03	1.20E-03	1.20E-03
94	587551.7	4154464	1.26E-02	1.26E-02	2.56E-02	2.56E-02	2.04E-03	2.04E-03	1.15E-03	1.15E-03
95	587557.3	4154472	1.21E-02	1.21E-02	2.45E-02	2.45E-02	1.95E-03	1.95E-03	1.10E-03	1.10E-03
96	587498.4	4154404	1.25E-02	1.25E-02	2.53E-02	2.53E-02	2.02E-03	2.02E-03	1.14E-03	1.14E-03
97	587504.1	4154412	1.26E-02	1.26E-02	2.56E-02	2.56E-02	2.04E-03	2.04E-03	1.15E-03	1.15E-03
98	587509.7	4154421	1.27E-02	1.27E-02	2.57E-02	2.57E-02	2.05E-03	2.05E-03	1.16E-03	1.16E-03
99	587515.3	4154429	1.27E-02	1.27E-02	2.57E-02	2.57E-02	2.05E-03	2.05E-03	1.16E-03	1.16E-03
100	587520.9	4154437	1.26E-02	1.26E-02	2.55E-02	2.55E-02	2.04E-03	2.04E-03	1.15E-03	1.15E-03
101	587526.6	4154445	1.24E-02	1.24E-02	2.52E-02	2.52E-02	2.01E-03	2.01E-03	1.13E-03	1.13E-03
102	587532.2	4154453	1.21E-02	1.21E-02	2.47E-02	2.47E-02	1.97E-03	1.97E-03	1.11E-03	1.11E-03
103	587537.8	4154462	1.18E-02	1.18E-02	2.40E-02	2.40E-02	1.91E-03	1.91E-03	1.08E-03	1.08E-03
104	587543.4	4154470	1.14E-02	1.14E-02	2.32E-02	2.32E-02	1.85E-03	1.85E-03	1.04E-03	1.04E-03
105	587549.1	4154478	1.09E-02	1.09E-02	2.22E-02	2.22E-02	1.77E-03	1.77E-03	9.98E-04	9.98E-04
106	587490.2	4154410	1.13E-02	1.13E-02	2.30E-02	2.30E-02	1.83E-03	1.83E-03	1.03E-03	1.03E-03
107	587495.8	4154418	1.14E-02	1.14E-02	2.32E-02	2.32E-02	1.85E-03	1.85E-03	1.04E-03	1.04E-03
108	587501.4	4154426	1.15E-02	1.15E-02	2.33E-02	2.33E-02	1.86E-03	1.86E-03	1.05E-03	1.05E-03
109	587507	4154434	1.14E-02	1.14E-02	2.33E-02	2.33E-02	1.85E-03	1.85E-03	1.04E-03	1.04E-03
110	587512.7	4154443	1.14E-02	1.14E-02	2.31E-02	2.31E-02	1.84E-03	1.84E-03	1.04E-03	1.04E-03
111	587518.3	4154451	1.12E-02	1.12E-02	2.28E-02	2.28E-02	1.82E-03	1.82E-03	1.02E-03	1.02E-03
112	587523.9	4154459	1.10E-02	1.10E-02	2.23E-02	2.23E-02	1.78E-03	1.78E-03	1.00E-03	1.00E-03
113	587529.5	4154467	1.07E-02	1.07E-02	2.18E-02	2.18E-02	1.73E-03	1.73E-03	9.78E-04	9.78E-04
114	587535.2	4154476	1.04E-02	1.04E-02	2.11E-02	2.11E-02	1.68E-03	1.68E-03	9.46E-04	9.46E-04
115	587540.8	4154484	9.97E-03	9.97E-03	2.03E-02	2.03E-02	1.61E-03	1.61E-03	9.10E-04	9.10E-04
116	587481.9	4154415	1.03E-02	1.03E-02	2.10E-02	2.10E-02	1.67E-03	1.67E-03	9.41E-04	9.41E-04
117	587487.5	4154424	1.04E-02	1.04E-02	2.11E-02	2.11E-02	1.68E-03	1.68E-03	9.49E-04	9.49E-04
118	587493.2	4154432	1.04E-02	1.04E-02	2.12E-02	2.12E-02	1.69E-03	1.69E-03	9.52E-04	9.52E-04
119	587498.8	4154440	1.04E-02	1.04E-02	2.12E-02	2.12E-02	1.69E-03	1.69E-03	9.50E-04	9.50E-04
120	587504.4	4154448	1.03E-02	1.03E-02	2.10E-02	2.10E-02	1.67E-03	1.67E-03	9.44E-04	9.44E-04
121	587510	4154457	1.02E-02	1.02E-02	2.08E-02	2.08E-02	1.65E-03	1.65E-03	9.32E-04	9.32E-04
122	587515.7	4154465	1.00E-02	1.00E-02	2.04E-02	2.04E-02	1.62E-03	1.62E-03	9.15E-04	9.15E-04
123	587521.3	4154473	9.77E-03	9.77E-03	1.99E-02	1.99E-02	1.58E-03	1.58E-03	8.92E-04	8.92E-04
124	587526.9	4154481	9.48E-03	9.48E-03	1.93E-02	1.93E-02	1.53E-03	1.53E-03	8.65E-04	8.65E-04
125	587532.5	4154489	9.14E-03	9.14E-03	1.86E-02	1.86E-02	1.48E-03	1.48E-03	8.34E-04	8.34E-04
126	587473.7	4154421	9.45E-03	9.45E-03	1.92E-02	1.92E-02	1.53E-03	1.53E-03	8.63E-04	8.63E-04
127	587479.3	4154429	9.51E-03	9.51E-03	1.93E-02	1.93E-02	1.54E-03	1.54E-03	8.68E-04	8.68E-04
128	587484.9	4154438	9.54E-03	9.54E-03	1.94E-02	1.94E-02	1.54E-03	1.54E-03	8.71E-04	8.71E-04
129	587490.5	4154446	9.52E-03	9.52E-03	1.93E-02	1.93E-02	1.54E-03	1.54E-03	8.69E-04	8.69E-04
130	587496.2	4154454	9.45E-03	9.45E-03	1.92E-02	1.92E-02	1.53E-03	1.53E-03	8.63E-04	8.63E-04
131	587501.8	4154462	9.34E-03	9.34E-03	1.90E-02	1.90E-02	1.51E-03	1.51E-03	8.53E-04	8.53E-04
132	587507.4	4154470	9.17E-03	9.17E-03	1.86E-02	1.86E-02	1.49E-03	1.49E-03	8.37E-04	8.37E-04
133	587513	4154479	8.96E-03	8.96E-03	1.82E-02	1.82E-02	1.45E-03	1.45E-03	8.18E-04	8.18E-04
134	587518.7	4154487	8.71E-03	8.71E-03	1.77E-02	1.77E-02	1.41E-03	1.41E-03	7.95E-04	7.95E-04
135	587524.3	4154495	8.41E-03	8.41E-03	1.71E-02	1.71E-02	1.36E-03	1.36E-03	7.68E-04	7.68E-04
136	587465.4	4154427	8.70E-03	8.70E-03	1.77E-02	1.77E-02	1.41E-03	1.41E-03	7.94E-04	7.94E-04
137	587471	4154435	8.75E-03	8.75E-03	1.78E-02	1.78E-02	1.42E-03	1.42E-03	7.99E-04	7.99E-04
138	587476.7	4154443	8.77E-03	8.77E-03	1.78E-02	1.78E-02	1.42E-03	1.42E-03	8.00E-04	8.00E-04
139	587482.3	4154451	8.75E-03	8.75E-03	1.78E-02	1.78E-02	1.42E-03	1.42E-03	7.98E-04	7.98E-04
140	587487.9	4154460	8.69E-03	8.69E-03	1.77E-02	1.77E-02	1.41E-03	1.41E-03	7.93E-04	7.93E-04
141	587493.5	4154468	8.58E-03	8.58E-03	1.74E-02	1.74E-02	1.39E-03	1.39E-03	7.84E-04	7.84E-04
142	587499.2	4154476	8.44E-03	8.44E-03	1.71E-02	1.71E-02	1.37E-03	1.37E-03	7.70E-04	7.70E-04
143	587504.8	4154484	8.25E-03	8.25E-03	1.68E-02	1.68E-02	1.34E-03	1.34E-03	7.53E-04	7.53E-04

144	587510.4	4154492	8.03E-03	8.03E-03	1.63E-02	1.63E-02	1.30E-03	1.30E-03	7.33E-04	7.33E-04
145	587516	4154501	7.78E-03	7.78E-03	1.58E-02	1.58E-02	1.26E-03	1.26E-03	7.10E-04	7.10E-04
146	587457.2	4154432	8.04E-03	8.04E-03	1.63E-02	1.63E-02	1.30E-03	1.30E-03	7.34E-04	7.34E-04
147	587462.8	4154441	8.08E-03	8.08E-03	1.64E-02	1.64E-02	1.31E-03	1.31E-03	7.37E-04	7.37E-04
148	587468.4	4154449	8.09E-03	8.09E-03	1.64E-02	1.64E-02	1.31E-03	1.31E-03	7.39E-04	7.39E-04
149	587474	4154457	8.07E-03	8.07E-03	1.64E-02	1.64E-02	1.31E-03	1.31E-03	7.37E-04	7.37E-04
150	587479.7	4154465	8.01E-03	8.01E-03	1.63E-02	1.63E-02	1.30E-03	1.30E-03	7.32E-04	7.32E-04
151	587485.3	4154473	7.92E-03	7.92E-03	1.61E-02	1.61E-02	1.28E-03	1.28E-03	7.23E-04	7.23E-04
152	587490.9	4154482	7.79E-03	7.79E-03	1.58E-02	1.58E-02	1.26E-03	1.26E-03	7.12E-04	7.12E-04
153	587496.5	4154490	7.63E-03	7.63E-03	1.55E-02	1.55E-02	1.24E-03	1.24E-03	6.97E-04	6.97E-04
154	587502.2	4154498	7.44E-03	7.44E-03	1.51E-02	1.51E-02	1.20E-03	1.20E-03	6.79E-04	6.79E-04
155	587507.8	4154506	7.21E-03	7.21E-03	1.47E-02	1.47E-02	1.17E-03	1.17E-03	6.58E-04	6.58E-04
156	587448.9	4154438	7.45E-03	7.45E-03	1.51E-02	1.51E-02	1.21E-03	1.21E-03	6.80E-04	6.80E-04
157	587454.5	4154446	7.49E-03	7.49E-03	1.52E-02	1.52E-02	1.21E-03	1.21E-03	6.83E-04	6.83E-04
158	587460.2	4154455	7.49E-03	7.49E-03	1.52E-02	1.52E-02	1.21E-03	1.21E-03	6.84E-04	6.84E-04
159	587465.8	4154463	7.47E-03	7.47E-03	1.52E-02	1.52E-02	1.21E-03	1.21E-03	6.82E-04	6.82E-04
160	587471.4	4154471	7.42E-03	7.42E-03	1.51E-02	1.51E-02	1.20E-03	1.20E-03	6.78E-04	6.78E-04
161	587477	4154479	7.34E-03	7.34E-03	1.49E-02	1.49E-02	1.19E-03	1.19E-03	6.70E-04	6.70E-04
162	587482.7	4154487	7.23E-03	7.23E-03	1.47E-02	1.47E-02	1.17E-03	1.17E-03	6.60E-04	6.60E-04
163	587488.3	4154496	7.08E-03	7.08E-03	1.44E-02	1.44E-02	1.15E-03	1.15E-03	6.46E-04	6.46E-04
164	587493.9	4154504	6.91E-03	6.91E-03	1.40E-02	1.40E-02	1.12E-03	1.12E-03	6.31E-04	6.31E-04
165	587499.5	4154512	6.71E-03	6.71E-03	1.36E-02	1.36E-02	1.09E-03	1.09E-03	6.13E-04	6.13E-04
166	587440.7	4154444	6.93E-03	6.93E-03	1.41E-02	1.41E-02	1.12E-03	1.12E-03	6.33E-04	6.33E-04
167	587446.3	4154452	6.96E-03	6.96E-03	1.41E-02	1.41E-02	1.13E-03	1.13E-03	6.36E-04	6.36E-04
168	587451.9	4154460	6.97E-03	6.97E-03	1.42E-02	1.42E-02	1.13E-03	1.13E-03	6.36E-04	6.36E-04
169	587457.5	4154468	6.95E-03	6.95E-03	1.41E-02	1.41E-02	1.12E-03	1.12E-03	6.34E-04	6.34E-04
170	587463.2	4154477	6.90E-03	6.90E-03	1.40E-02	1.40E-02	1.12E-03	1.12E-03	6.30E-04	6.30E-04
171	587468.8	4154485	6.82E-03	6.82E-03	1.39E-02	1.39E-02	1.11E-03	1.11E-03	6.23E-04	6.23E-04
172	587474.4	4154493	6.72E-03	6.72E-03	1.37E-02	1.37E-02	1.09E-03	1.09E-03	6.14E-04	6.14E-04
173	587480	4154501	6.59E-03	6.59E-03	1.34E-02	1.34E-02	1.07E-03	1.07E-03	6.02E-04	6.02E-04
174	587485.7	4154509	6.44E-03	6.44E-03	1.31E-02	1.31E-02	1.04E-03	1.04E-03	5.88E-04	5.88E-04
175	587491.3	4154518	6.27E-03	6.27E-03	1.27E-02	1.27E-02	1.01E-03	1.01E-03	5.72E-04	5.72E-04
176	587432.4	4154449	6.47E-03	6.47E-03	1.32E-02	1.32E-02	1.05E-03	1.05E-03	5.91E-04	5.91E-04
177	587438	4154458	6.49E-03	6.49E-03	1.32E-02	1.32E-02	1.05E-03	1.05E-03	5.93E-04	5.93E-04
178	587443.7	4154466	6.50E-03	6.50E-03	1.32E-02	1.32E-02	1.05E-03	1.05E-03	5.93E-04	5.93E-04
179	587449.3	4154474	6.48E-03	6.48E-03	1.32E-02	1.32E-02	1.05E-03	1.05E-03	5.91E-04	5.91E-04
180	587454.9	4154482	6.43E-03	6.43E-03	1.31E-02	1.31E-02	1.04E-03	1.04E-03	5.87E-04	5.87E-04
181	587460.5	4154490	6.36E-03	6.36E-03	1.29E-02	1.29E-02	1.03E-03	1.03E-03	5.81E-04	5.81E-04
182	587466.2	4154499	6.27E-03	6.27E-03	1.27E-02	1.27E-02	1.02E-03	1.02E-03	5.72E-04	5.72E-04
183	587471.8	4154507	6.15E-03	6.15E-03	1.25E-02	1.25E-02	9.97E-04	9.97E-04	5.62E-04	5.62E-04
184	587477.4	4154515	6.02E-03	6.02E-03	1.22E-02	1.22E-02	9.75E-04	9.75E-04	5.50E-04	5.50E-04
185	587483	4154523	5.86E-03	5.86E-03	1.19E-02	1.19E-02	9.50E-04	9.50E-04	5.35E-04	5.35E-04
186	587424.2	4154455	6.06E-03	6.06E-03	1.23E-02	1.23E-02	9.81E-04	9.81E-04	5.53E-04	5.53E-04
187	587429.8	4154463	6.07E-03	6.07E-03	1.23E-02	1.23E-02	9.84E-04	9.84E-04	5.55E-04	5.55E-04
188	587435.4	4154471	6.07E-03	6.07E-03	1.23E-02	1.23E-02	9.84E-04	9.84E-04	5.55E-04	5.55E-04
189	587441	4154480	6.05E-03	6.05E-03	1.23E-02	1.23E-02	9.80E-04	9.80E-04	5.53E-04	5.53E-04
190	587446.7	4154488	6.01E-03	6.01E-03	1.22E-02	1.22E-02	9.74E-04	9.74E-04	5.49E-04	5.49E-04
191	587452.3	4154496	5.95E-03	5.95E-03	1.21E-02	1.21E-02	9.64E-04	9.64E-04	5.43E-04	5.43E-04
192	587457.9	4154504	5.87E-03	5.87E-03	1.19E-02	1.19E-02	9.50E-04	9.50E-04	5.36E-04	5.36E-04
193	587463.5	4154513	5.76E-03	5.76E-03	1.17E-02	1.17E-02	9.33E-04	9.33E-04	5.26E-04	5.26E-04
194	587469.2	4154521	5.64E-03	5.64E-03	1.15E-02	1.15E-02	9.14E-04	9.14E-04	5.15E-04	5.15E-04
195	587474.8	4154529	5.50E-03	5.50E-03	1.12E-02	1.12E-02	8.91E-04	8.91E-04	5.02E-04	5.02E-04
196	587415.9	4154461	5.68E-03	5.68E-03	1.16E-02	1.16E-02	9.20E-04	9.20E-04	5.19E-04	5.19E-04
197	587421.5	4154469	5.70E-03	5.70E-03	1.16E-02	1.16E-02	9.23E-04	9.23E-04	5.20E-04	5.20E-04
198	587427.2	4154477	5.70E-03	5.70E-03	1.16E-02	1.16E-02	9.22E-04	9.22E-04	5.20E-04	5.20E-04
199	587432.8	4154485	5.68E-03	5.68E-03	1.15E-02	1.15E-02	9.19E-04	9.19E-04	5.18E-04	5.18E-04
200	587438.4	4154494	5.64E-03	5.64E-03	1.15E-02	1.15E-02	9.13E-04	9.13E-04	5.15E-04	5.15E-04
201	587444	4154502	5.58E-03	5.58E-03	1.13E-02	1.13E-02	9.04E-04	9.04E-04	5.09E-04	5.09E-04
202	587449.7	4154510	5.50E-03	5.50E-03	1.12E-02	1.12E-02	8.91E-04	8.91E-04	5.02E-04	5.02E-04
203	587455.3	4154518	5.41E-03	5.41E-03	1.10E-02	1.10E-02	8.76E-04	8.76E-04	4.94E-04	4.94E-04
204	587460.9	4154526	5.30E-03	5.30E-03	1.08E-02	1.08E-02	8.58E-04	8.58E-04	4.84E-04	4.84E-04
205	587466.5	4154535	5.18E-03	5.18E-03	1.05E-02	1.05E-02	8.38E-04	8.38E-04	4.73E-04	4.73E-04
206	587407.7	4154466	5.35E-03	5.35E-03	1.09E-02	1.09E-02	8.66E-04	8.66E-04	4.88E-04	4.88E-04
207	587413.3	4154475	5.36E-03	5.36E-03	1.09E-02	1.09E-02	8.67E-04	8.67E-04	4.89E-04	4.89E-04
208	587418.9	4154483	5.35E-03	5.35E-03	1.09E-02	1.09E-02	8.67E-04	8.67E-04	4.89E-04	4.89E-04
209	587424.5	4154491	5.33E-03	5.33E-03	1.08E-02	1.08E-02	8.64E-04	8.64E-04	4.87E-04	4.87E-04
210	587430.2	4154499	5.30E-03	5.30E-03	1.08E-02	1.08E-02	8.58E-04	8.58E-04	4.84E-04	4.84E-04
211	587435.8	4154507	5.25E-03	5.25E-03	1.07E-02	1.07E-02	8.50E-04	8.50E-04	4.79E-04	4.79E-04
212	587441.4	4154516	5.18E-03	5.18E-03	1.05E-02	1.05E-02	8.38E-04	8.38E-04	4.73E-04	4.73E-04
213	587447	4154524	5.09E-03	5.09E-03	1.03E-02	1.03E-02	8.25E-04	8.25E-04	4.65E-04	4.65E-04
214	587452.7	4154532	4.99E-03	4.99E-03	1.01E-02	1.01E-02	8.08E-04	8.08E-04	4.56E-04	4.56E-04
215	587458.3	4154540	4.88E-03	4.88E-03	9.92E-03	9.92E-03	7.90E-04	7.90E-04	4.45E-04	4.45E-04
216	587379.9	4154375	5.74E-03	5.74E-03	1.17E-02	1.17E-02	9.30E-04	9.30E-04	5.24E-04	5.24E-04

217	587376	4154356	5.86E-03	5.86E-03	1.19E-02	1.19E-02	9.49E-04	9.49E-04	5.35E-04	5.35E-04
218	587374	4154346	5.92E-03	5.92E-03	1.20E-02	1.20E-02	9.58E-04	9.58E-04	5.40E-04	5.40E-04
219	587372.1	4154337	5.98E-03	5.98E-03	1.22E-02	1.22E-02	9.68E-04	9.68E-04	5.46E-04	5.46E-04
220	587370.1	4154327	6.04E-03	6.04E-03	1.23E-02	1.23E-02	9.78E-04	9.78E-04	5.51E-04	5.51E-04
221	587399.4	4154472	5.04E-03	5.04E-03	1.02E-02	1.02E-02	8.16E-04	8.16E-04	4.60E-04	4.60E-04
222	587405	4154480	5.05E-03	5.05E-03	1.03E-02	1.03E-02	8.17E-04	8.17E-04	4.61E-04	4.61E-04
223	587410.7	4154488	5.04E-03	5.04E-03	1.02E-02	1.02E-02	8.17E-04	8.17E-04	4.60E-04	4.60E-04
224	587416.3	4154497	5.02E-03	5.02E-03	1.02E-02	1.02E-02	8.14E-04	8.14E-04	4.59E-04	4.59E-04
225	587421.9	4154505	4.99E-03	4.99E-03	1.01E-02	1.01E-02	8.08E-04	8.08E-04	4.56E-04	4.56E-04
226	587427.5	4154513	4.94E-03	4.94E-03	1.00E-02	1.00E-02	8.01E-04	8.01E-04	4.51E-04	4.51E-04
227	587433.2	4154521	4.88E-03	4.88E-03	9.92E-03	9.92E-03	7.90E-04	7.90E-04	4.45E-04	4.45E-04
228	587438.8	4154529	4.80E-03	4.80E-03	9.76E-03	9.76E-03	7.78E-04	7.78E-04	4.38E-04	4.38E-04
229	587444.4	4154538	4.71E-03	4.71E-03	9.58E-03	9.58E-03	7.63E-04	7.63E-04	4.30E-04	4.30E-04
230	587450	4154546	4.61E-03	4.61E-03	9.37E-03	9.37E-03	7.46E-04	7.46E-04	4.21E-04	4.21E-04
231	587371.9	4154382	5.40E-03	5.40E-03	1.10E-02	1.10E-02	8.75E-04	8.75E-04	4.93E-04	4.93E-04
232	587369.9	4154372	5.45E-03	5.45E-03	1.11E-02	1.11E-02	8.83E-04	8.83E-04	4.98E-04	4.98E-04
233	587368	4154363	5.51E-03	5.51E-03	1.12E-02	1.12E-02	8.92E-04	8.92E-04	5.03E-04	5.03E-04
234	587366.1	4154353	5.56E-03	5.56E-03	1.13E-02	1.13E-02	9.00E-04	9.00E-04	5.08E-04	5.08E-04
235	587364.1	4154344	5.62E-03	5.62E-03	1.14E-02	1.14E-02	9.09E-04	9.09E-04	5.13E-04	5.13E-04
236	587362.2	4154334	5.67E-03	5.67E-03	1.15E-02	1.15E-02	9.19E-04	9.19E-04	5.18E-04	5.18E-04
237	587360.3	4154324	5.73E-03	5.73E-03	1.16E-02	1.16E-02	9.28E-04	9.28E-04	5.23E-04	5.23E-04
238	587391.2	4154478	4.76E-03	4.76E-03	9.67E-03	9.67E-03	7.71E-04	7.71E-04	4.34E-04	4.34E-04
239	587396.8	4154486	4.77E-03	4.77E-03	9.69E-03	9.69E-03	7.72E-04	7.72E-04	4.35E-04	4.35E-04
240	587402.4	4154494	4.76E-03	4.76E-03	9.68E-03	9.68E-03	7.71E-04	7.71E-04	4.35E-04	4.35E-04
241	587408	4154502	4.74E-03	4.74E-03	9.64E-03	9.64E-03	7.68E-04	7.68E-04	4.33E-04	4.33E-04
242	587413.7	4154510	4.71E-03	4.71E-03	9.58E-03	9.58E-03	7.63E-04	7.63E-04	4.30E-04	4.30E-04
243	587419.3	4154519	4.67E-03	4.67E-03	9.49E-03	9.49E-03	7.56E-04	7.56E-04	4.26E-04	4.26E-04
244	587424.9	4154527	4.61E-03	4.61E-03	9.37E-03	9.37E-03	7.46E-04	7.46E-04	4.21E-04	4.21E-04
245	587430.5	4154535	4.54E-03	4.54E-03	9.22E-03	9.22E-03	7.35E-04	7.35E-04	4.14E-04	4.14E-04
246	587436.2	4154543	4.46E-03	4.46E-03	9.06E-03	9.06E-03	7.22E-04	7.22E-04	4.07E-04	4.07E-04
247	587441.8	4154552	4.36E-03	4.36E-03	8.87E-03	8.87E-03	7.06E-04	7.06E-04	3.98E-04	3.98E-04
248	587363.8	4154388	5.09E-03	5.09E-03	1.04E-02	1.04E-02	8.25E-04	8.25E-04	4.65E-04	4.65E-04
249	587361.9	4154379	5.14E-03	5.14E-03	1.04E-02	1.04E-02	8.32E-04	8.32E-04	4.69E-04	4.69E-04
250	587360	4154369	5.19E-03	5.19E-03	1.05E-02	1.05E-02	8.40E-04	8.40E-04	4.74E-04	4.74E-04
251	587358	4154360	5.24E-03	5.24E-03	1.06E-02	1.06E-02	8.48E-04	8.48E-04	4.78E-04	4.78E-04
252	587356.1	4154351	5.29E-03	5.29E-03	1.07E-02	1.07E-02	8.56E-04	8.56E-04	4.83E-04	4.83E-04
253	587354.2	4154341	5.34E-03	5.34E-03	1.09E-02	1.09E-02	8.65E-04	8.65E-04	4.87E-04	4.87E-04
254	587352.3	4154332	5.39E-03	5.39E-03	1.10E-02	1.10E-02	8.73E-04	8.73E-04	4.92E-04	4.92E-04
255	587382.9	4154483	4.50E-03	4.50E-03	9.15E-03	9.15E-03	7.29E-04	7.29E-04	4.11E-04	4.11E-04
256	587388.5	4154491	4.51E-03	4.51E-03	9.16E-03	9.16E-03	7.30E-04	7.30E-04	4.12E-04	4.12E-04
257	587394.2	4154500	4.50E-03	4.50E-03	9.15E-03	9.15E-03	7.29E-04	7.29E-04	4.11E-04	4.11E-04
258	587399.8	4154508	4.49E-03	4.49E-03	9.12E-03	9.12E-03	7.26E-04	7.26E-04	4.10E-04	4.10E-04
259	587405.4	4154516	4.46E-03	4.46E-03	9.06E-03	9.06E-03	7.22E-04	7.22E-04	4.07E-04	4.07E-04
260	587411	4154524	4.41E-03	4.41E-03	8.97E-03	8.97E-03	7.15E-04	7.15E-04	4.03E-04	4.03E-04
261	587416.7	4154533	4.36E-03	4.36E-03	8.86E-03	8.86E-03	7.06E-04	7.06E-04	3.98E-04	3.98E-04
262	587422.3	4154541	4.30E-03	4.30E-03	8.73E-03	8.73E-03	6.96E-04	6.96E-04	3.92E-04	3.92E-04
263	587427.9	4154549	4.22E-03	4.22E-03	8.58E-03	8.58E-03	6.83E-04	6.83E-04	3.85E-04	3.85E-04
264	587433.5	4154557	4.14E-03	4.14E-03	8.40E-03	8.40E-03	6.70E-04	6.70E-04	3.78E-04	3.78E-04
265	587355.7	4154395	4.81E-03	4.81E-03	9.78E-03	9.78E-03	7.79E-04	7.79E-04	4.39E-04	4.39E-04
266	587353.8	4154386	4.85E-03	4.85E-03	9.87E-03	9.87E-03	7.86E-04	7.86E-04	4.43E-04	4.43E-04
267	587351.9	4154376	4.90E-03	4.90E-03	9.95E-03	9.95E-03	7.93E-04	7.93E-04	4.47E-04	4.47E-04
268	587350	4154367	4.94E-03	4.94E-03	1.00E-02	1.00E-02	8.00E-04	8.00E-04	4.51E-04	4.51E-04
269	587348.1	4154357	4.99E-03	4.99E-03	1.01E-02	1.01E-02	8.08E-04	8.08E-04	4.55E-04	4.55E-04
270	587346.2	4154348	5.03E-03	5.03E-03	1.02E-02	1.02E-02	8.15E-04	8.15E-04	4.60E-04	4.60E-04
271	587344.3	4154339	5.08E-03	5.08E-03	1.03E-02	1.03E-02	8.23E-04	8.23E-04	4.64E-04	4.64E-04
272	587374.7	4154489	4.27E-03	4.27E-03	8.68E-03	8.68E-03	6.91E-04	6.91E-04	3.90E-04	3.90E-04
273	587380.3	4154497	4.27E-03	4.27E-03	8.68E-03	8.68E-03	6.92E-04	6.92E-04	3.90E-04	3.90E-04
274	587385.9	4154505	4.27E-03	4.27E-03	8.67E-03	8.67E-03	6.91E-04	6.91E-04	3.90E-04	3.90E-04
275	587391.5	4154514	4.25E-03	4.25E-03	8.64E-03	8.64E-03	6.88E-04	6.88E-04	3.88E-04	3.88E-04
276	587397.2	4154522	4.22E-03	4.22E-03	8.58E-03	8.58E-03	6.84E-04	6.84E-04	3.85E-04	3.85E-04
277	587402.8	4154530	4.18E-03	4.18E-03	8.50E-03	8.50E-03	6.77E-04	6.77E-04	3.82E-04	3.82E-04
278	587408.4	4154538	4.13E-03	4.13E-03	8.40E-03	8.40E-03	6.70E-04	6.70E-04	3.77E-04	3.77E-04
279	587414	4154546	4.07E-03	4.07E-03	8.28E-03	8.28E-03	6.60E-04	6.60E-04	3.72E-04	3.72E-04
280	587419.7	4154555	4.01E-03	4.01E-03	8.14E-03	8.14E-03	6.49E-04	6.49E-04	3.66E-04	3.66E-04
281	587425.3	4154563	3.93E-03	3.93E-03	7.98E-03	7.98E-03	6.36E-04	6.36E-04	3.58E-04	3.58E-04
282	587346.7	4154397	4.57E-03	4.57E-03	9.30E-03	9.30E-03	7.41E-04	7.41E-04	4.18E-04	4.18E-04
283	587344.8	4154387	4.61E-03	4.61E-03	9.38E-03	9.38E-03	7.47E-04	7.47E-04	4.21E-04	4.21E-04
284	587342.8	4154378	4.65E-03	4.65E-03	9.46E-03	9.46E-03	7.54E-04	7.54E-04	4.25E-04	4.25E-04
285	587340.8	4154368	4.70E-03	4.70E-03	9.55E-03	9.55E-03	7.61E-04	7.61E-04	4.29E-04	4.29E-04
286	587338.9	4154358	4.74E-03	4.74E-03	9.63E-03	9.63E-03	7.68E-04	7.68E-04	4.33E-04	4.33E-04
287	587336.9	4154348	4.79E-03	4.79E-03	9.73E-03	9.73E-03	7.75E-04	7.75E-04	4.37E-04	4.37E-04
288	587334.9	4154339	4.83E-03	4.83E-03	9.82E-03	9.82E-03	7.83E-04	7.83E-04	4.41E-04	4.41E-04
289	587366.4	4154495	4.05E-03	4.05E-03	8.24E-03	8.24E-03	6.56E-04	6.56E-04	3.70E-04	3.70E-04

290	587372	4154503	4.06E-03	4.06E-03	8.24E-03	8.24E-03	6.57E-04	6.57E-04	3.70E-04	3.70E-04
291	587377.7	4154511	4.05E-03	4.05E-03	8.23E-03	8.23E-03	6.56E-04	6.56E-04	3.70E-04	3.70E-04
292	587383.3	4154519	4.03E-03	4.03E-03	8.20E-03	8.20E-03	6.53E-04	6.53E-04	3.68E-04	3.68E-04
293	587388.9	4154527	4.01E-03	4.01E-03	8.14E-03	8.14E-03	6.49E-04	6.49E-04	3.66E-04	3.66E-04
294	587394.5	4154536	3.97E-03	3.97E-03	8.07E-03	8.07E-03	6.43E-04	6.43E-04	3.63E-04	3.63E-04
295	587400.2	4154544	3.93E-03	3.93E-03	7.98E-03	7.98E-03	6.36E-04	6.36E-04	3.58E-04	3.58E-04
296	587405.8	4154552	3.87E-03	3.87E-03	7.87E-03	7.87E-03	6.27E-04	6.27E-04	3.53E-04	3.53E-04
297	587411.4	4154560	3.81E-03	3.81E-03	7.74E-03	7.74E-03	6.16E-04	6.16E-04	3.48E-04	3.48E-04
298	587417	4154569	3.73E-03	3.73E-03	7.59E-03	7.59E-03	6.05E-04	6.05E-04	3.41E-04	3.41E-04
299	587338.7	4154404	4.34E-03	4.34E-03	8.81E-03	8.81E-03	7.02E-04	7.02E-04	3.96E-04	3.96E-04
300	587336.7	4154394	4.37E-03	4.37E-03	8.89E-03	8.89E-03	7.08E-04	7.08E-04	3.99E-04	3.99E-04
301	587334.8	4154384	4.41E-03	4.41E-03	8.96E-03	8.96E-03	7.14E-04	7.14E-04	4.03E-04	4.03E-04
302	587332.8	4154375	4.45E-03	4.45E-03	9.04E-03	9.04E-03	7.20E-04	7.20E-04	4.06E-04	4.06E-04
303	587330.9	4154365	4.49E-03	4.49E-03	9.12E-03	9.12E-03	7.27E-04	7.27E-04	4.10E-04	4.10E-04
304	587328.9	4154355	4.53E-03	4.53E-03	9.20E-03	9.20E-03	7.33E-04	7.33E-04	4.13E-04	4.13E-04
305	587327	4154346	4.57E-03	4.57E-03	9.29E-03	9.29E-03	7.40E-04	7.40E-04	4.17E-04	4.17E-04
306	587358.2	4154500	3.86E-03	3.86E-03	7.84E-03	7.84E-03	6.24E-04	6.24E-04	3.52E-04	3.52E-04
307	587363.8	4154508	3.86E-03	3.86E-03	7.84E-03	7.84E-03	6.25E-04	6.25E-04	3.52E-04	3.52E-04
308	587369.4	4154517	3.85E-03	3.85E-03	7.82E-03	7.82E-03	6.23E-04	6.23E-04	3.51E-04	3.51E-04
309	587375	4154525	3.83E-03	3.83E-03	7.79E-03	7.79E-03	6.21E-04	6.21E-04	3.50E-04	3.50E-04
310	587380.7	4154533	3.81E-03	3.81E-03	7.74E-03	7.74E-03	6.17E-04	6.17E-04	3.48E-04	3.48E-04
311	587386.3	4154541	3.78E-03	3.78E-03	7.68E-03	7.68E-03	6.12E-04	6.12E-04	3.45E-04	3.45E-04
312	587391.9	4154550	3.73E-03	3.73E-03	7.59E-03	7.59E-03	6.05E-04	6.05E-04	3.41E-04	3.41E-04
313	587397.5	4154558	3.68E-03	3.68E-03	7.49E-03	7.49E-03	5.96E-04	5.96E-04	3.36E-04	3.36E-04
314	587403.2	4154566	3.62E-03	3.62E-03	7.36E-03	7.36E-03	5.87E-04	5.87E-04	3.31E-04	3.31E-04
315	587408.8	4154574	3.56E-03	3.56E-03	7.23E-03	7.23E-03	5.76E-04	5.76E-04	3.25E-04	3.25E-04
316	587330.6	4154410	4.12E-03	4.12E-03	8.37E-03	8.37E-03	6.67E-04	6.67E-04	3.76E-04	3.76E-04
317	587328.7	4154401	4.15E-03	4.15E-03	8.44E-03	8.44E-03	6.72E-04	6.72E-04	3.79E-04	3.79E-04
318	587326.7	4154391	4.18E-03	4.18E-03	8.50E-03	8.50E-03	6.78E-04	6.78E-04	3.82E-04	3.82E-04
319	587324.8	4154381	4.22E-03	4.22E-03	8.58E-03	8.58E-03	6.83E-04	6.83E-04	3.85E-04	3.85E-04
320	587322.9	4154372	4.25E-03	4.25E-03	8.65E-03	8.65E-03	6.89E-04	6.89E-04	3.88E-04	3.88E-04
321	587320.9	4154362	4.29E-03	4.29E-03	8.72E-03	8.72E-03	6.95E-04	6.95E-04	3.92E-04	3.92E-04
322	587319	4154353	4.33E-03	4.33E-03	8.80E-03	8.80E-03	7.01E-04	7.01E-04	3.95E-04	3.95E-04
323	587349.9	4154506	3.67E-03	3.67E-03	7.46E-03	7.46E-03	5.95E-04	5.95E-04	3.35E-04	3.35E-04
324	587355.5	4154514	3.67E-03	3.67E-03	7.46E-03	7.46E-03	5.95E-04	5.95E-04	3.35E-04	3.35E-04
325	587361.2	4154522	3.67E-03	3.67E-03	7.45E-03	7.45E-03	5.94E-04	5.94E-04	3.35E-04	3.35E-04
326	587366.8	4154531	3.65E-03	3.65E-03	7.42E-03	7.42E-03	5.91E-04	5.91E-04	3.33E-04	3.33E-04
327	587372.4	4154539	3.63E-03	3.63E-03	7.37E-03	7.37E-03	5.87E-04	5.87E-04	3.31E-04	3.31E-04
328	587378	4154547	3.60E-03	3.60E-03	7.31E-03	7.31E-03	5.82E-04	5.82E-04	3.28E-04	3.28E-04
329	587383.7	4154555	3.56E-03	3.56E-03	7.23E-03	7.23E-03	5.76E-04	5.76E-04	3.25E-04	3.25E-04
330	587389.3	4154563	3.51E-03	3.51E-03	7.13E-03	7.13E-03	5.68E-04	5.68E-04	3.20E-04	3.20E-04
331	587394.9	4154572	3.45E-03	3.45E-03	7.02E-03	7.02E-03	5.59E-04	5.59E-04	3.15E-04	3.15E-04
332	587400.5	4154580	3.39E-03	3.39E-03	6.90E-03	6.90E-03	5.50E-04	5.50E-04	3.10E-04	3.10E-04
333	587318.7	4154398	3.98E-03	3.98E-03	8.09E-03	8.09E-03	6.44E-04	6.44E-04	3.63E-04	3.63E-04
334	587316.8	4154388	4.01E-03	4.01E-03	8.15E-03	8.15E-03	6.49E-04	6.49E-04	3.66E-04	3.66E-04
335	587314.8	4154379	4.04E-03	4.04E-03	8.21E-03	8.21E-03	6.54E-04	6.54E-04	3.69E-04	3.69E-04
336	587312.9	4154369	4.07E-03	4.07E-03	8.28E-03	8.28E-03	6.60E-04	6.60E-04	3.72E-04	3.72E-04
337	587311	4154360	4.11E-03	4.11E-03	8.35E-03	8.35E-03	6.65E-04	6.65E-04	3.75E-04	3.75E-04
338	587341.7	4154512	3.50E-03	3.50E-03	7.12E-03	7.12E-03	5.67E-04	5.67E-04	3.20E-04	3.20E-04
339	587347.3	4154520	3.50E-03	3.50E-03	7.12E-03	7.12E-03	5.67E-04	5.67E-04	3.20E-04	3.20E-04
340	587352.9	4154528	3.49E-03	3.49E-03	7.10E-03	7.10E-03	5.66E-04	5.66E-04	3.19E-04	3.19E-04
341	587358.5	4154536	3.48E-03	3.48E-03	7.07E-03	7.07E-03	5.64E-04	5.64E-04	3.18E-04	3.18E-04
342	587364.2	4154544	3.46E-03	3.46E-03	7.03E-03	7.03E-03	5.60E-04	5.60E-04	3.16E-04	3.16E-04
343	587369.8	4154553	3.43E-03	3.43E-03	6.97E-03	6.97E-03	5.55E-04	5.55E-04	3.13E-04	3.13E-04
344	587375.4	4154561	3.39E-03	3.39E-03	6.89E-03	6.89E-03	5.49E-04	5.49E-04	3.10E-04	3.10E-04
345	587381	4154569	3.35E-03	3.35E-03	6.81E-03	6.81E-03	5.42E-04	5.42E-04	3.06E-04	3.06E-04
346	587386.7	4154577	3.30E-03	3.30E-03	6.70E-03	6.70E-03	5.34E-04	5.34E-04	3.01E-04	3.01E-04
347	587392.3	4154585	3.24E-03	3.24E-03	6.59E-03	6.59E-03	5.25E-04	5.25E-04	2.96E-04	2.96E-04
348	587781.9	4154320	2.71E-01	2.71E-01	5.51E-01	5.51E-01	4.39E-02	4.39E-02	2.48E-02	2.48E-02
349	587776.8	4154312	2.90E-01	2.90E-01	5.88E-01	5.88E-01	4.69E-02	4.69E-02	2.64E-02	2.64E-02
350	587790.4	4154315	2.11E-01	2.11E-01	4.29E-01	4.29E-01	3.42E-02	3.42E-02	1.93E-02	1.93E-02
351	587785.3	4154307	2.23E-01	2.23E-01	4.54E-01	4.54E-01	3.62E-02	3.62E-02	2.04E-02	2.04E-02
352	587798.9	4154310	1.70E-01	1.70E-01	3.45E-01	3.45E-01	2.75E-02	2.75E-02	1.55E-02	1.55E-02
353	587793.8	4154302	1.78E-01	1.78E-01	3.61E-01	3.61E-01	2.88E-02	2.88E-02	1.62E-02	1.62E-02
354	587783.6	4154285	1.80E-01	1.80E-01	3.66E-01	3.66E-01	2.92E-02	2.92E-02	1.64E-02	1.64E-02
355	587778.5	4154277	1.75E-01	1.75E-01	3.56E-01	3.56E-01	2.83E-02	2.83E-02	1.60E-02	1.60E-02
356	587773.4	4154269	1.66E-01	1.66E-01	3.37E-01	3.37E-01	2.69E-02	2.69E-02	1.51E-02	1.51E-02
357	587768.3	4154261	1.53E-01	1.53E-01	3.10E-01	3.10E-01	2.47E-02	2.47E-02	1.39E-02	1.39E-02
358	587763.3	4154253	1.36E-01	1.36E-01	2.75E-01	2.75E-01	2.19E-02	2.19E-02	1.24E-02	1.24E-02
359	587758.2	4154245	1.16E-01	1.16E-01	2.35E-01	2.35E-01	1.87E-02	1.87E-02	1.06E-02	1.06E-02
360	587807.3	4154305	1.40E-01	1.40E-01	2.85E-01	2.85E-01	2.27E-02	2.27E-02	1.28E-02	1.28E-02
361	587802.3	4154296	1.45E-01	1.45E-01	2.96E-01	2.96E-01	2.35E-02	2.35E-02	1.33E-02	1.33E-02
362	587792.1	4154280	1.46E-01	1.46E-01	2.96E-01	2.96E-01	2.36E-02	2.36E-02	1.33E-02	1.33E-02

363	587787	4154272	1.41E-01	1.41E-01	2.87E-01	2.87E-01	2.29E-02	2.29E-02	1.29E-02	1.29E-02
364	587781.9	4154264	1.33E-01	1.33E-01	2.71E-01	2.71E-01	2.16E-02	2.16E-02	1.22E-02	1.22E-02
365	587776.8	4154256	1.23E-01	1.23E-01	2.49E-01	2.49E-01	1.99E-02	1.99E-02	1.12E-02	1.12E-02
366	587771.7	4154248	1.10E-01	1.10E-01	2.23E-01	2.23E-01	1.78E-02	1.78E-02	1.00E-02	1.00E-02
367	587766.7	4154239	9.57E-02	9.57E-02	1.94E-01	1.94E-01	1.55E-02	1.55E-02	8.73E-03	8.73E-03
368	587815.8	4154299	1.18E-01	1.18E-01	2.40E-01	2.40E-01	1.91E-02	1.91E-02	1.08E-02	1.08E-02
369	587810.7	4154291	1.22E-01	1.22E-01	2.47E-01	2.47E-01	1.97E-02	1.97E-02	1.11E-02	1.11E-02
370	587800.6	4154275	1.21E-01	1.21E-01	2.45E-01	2.45E-01	1.95E-02	1.95E-02	1.10E-02	1.10E-02
371	587795.5	4154267	1.17E-01	1.17E-01	2.37E-01	2.37E-01	1.89E-02	1.89E-02	1.06E-02	1.06E-02
372	587790.4	4154259	1.10E-01	1.10E-01	2.24E-01	2.24E-01	1.78E-02	1.78E-02	1.00E-02	1.00E-02
373	587824.3	4154294	1.01E-01	1.01E-01	2.05E-01	2.05E-01	1.64E-02	1.64E-02	9.22E-03	9.22E-03
374	587819.2	4154286	1.03E-01	1.03E-01	2.10E-01	2.10E-01	1.67E-02	1.67E-02	9.43E-03	9.43E-03
375	587809	4154270	1.02E-01	1.02E-01	2.07E-01	2.07E-01	1.65E-02	1.65E-02	9.29E-03	9.29E-03
376	587804	4154261	9.81E-02	9.81E-02	1.99E-01	1.99E-01	1.59E-02	1.59E-02	8.95E-03	8.95E-03
377	587798.9	4154253	9.27E-02	9.27E-02	1.88E-01	1.88E-01	1.50E-02	1.50E-02	8.46E-03	8.46E-03
378	587793.8	4154245	8.59E-02	8.59E-02	1.75E-01	1.75E-01	1.39E-02	1.39E-02	7.84E-03	7.84E-03
379	587788.7	4154237	7.82E-02	7.82E-02	1.59E-01	1.59E-01	1.27E-02	1.27E-02	7.14E-03	7.14E-03
380	587832.8	4154289	8.76E-02	8.76E-02	1.78E-01	1.78E-01	1.42E-02	1.42E-02	7.99E-03	7.99E-03
381	587827.7	4154281	8.90E-02	8.90E-02	1.81E-01	1.81E-01	1.44E-02	1.44E-02	8.12E-03	8.12E-03
382	587817.5	4154264	8.71E-02	8.71E-02	1.77E-01	1.77E-01	1.41E-02	1.41E-02	7.95E-03	7.95E-03
383	587812.4	4154256	8.39E-02	8.39E-02	1.70E-01	1.70E-01	1.36E-02	1.36E-02	7.66E-03	7.66E-03
384	587807.3	4154248	7.94E-02	7.94E-02	1.61E-01	1.61E-01	1.29E-02	1.29E-02	7.25E-03	7.25E-03
385	587802.3	4154240	7.39E-02	7.39E-02	1.50E-01	1.50E-01	1.20E-02	1.20E-02	6.75E-03	6.75E-03
386	587841.3	4154283	7.67E-02	7.67E-02	1.56E-01	1.56E-01	1.24E-02	1.24E-02	7.00E-03	7.00E-03
387	587836.2	4154275	7.75E-02	7.75E-02	1.58E-01	1.58E-01	1.26E-02	1.26E-02	7.08E-03	7.08E-03
388	587826	4154259	7.55E-02	7.55E-02	1.53E-01	1.53E-01	1.22E-02	1.22E-02	6.89E-03	6.89E-03
389	587820.9	4154251	7.27E-02	7.27E-02	1.48E-01	1.48E-01	1.18E-02	1.18E-02	6.64E-03	6.64E-03
390	587815.8	4154243	6.90E-02	6.90E-02	1.40E-01	1.40E-01	1.12E-02	1.12E-02	6.30E-03	6.30E-03
391	587849.7	4154278	6.77E-02	6.77E-02	1.38E-01	1.38E-01	1.10E-02	1.10E-02	6.18E-03	6.18E-03
392	587844.7	4154270	6.82E-02	6.82E-02	1.39E-01	1.39E-01	1.10E-02	1.10E-02	6.22E-03	6.22E-03
393	587858.2	4154273	6.03E-02	6.03E-02	1.23E-01	1.23E-01	9.76E-03	9.76E-03	5.50E-03	5.50E-03
394	587853.1	4154265	6.05E-02	6.05E-02	1.23E-01	1.23E-01	9.79E-03	9.79E-03	5.52E-03	5.52E-03
395	587959.2	4154381	2.00E-02	2.00E-02	4.06E-02	4.06E-02	3.23E-03	3.23E-03	1.82E-03	1.82E-03
396	587972.6	4154366	1.97E-02	1.97E-02	4.00E-02	4.00E-02	3.19E-03	3.19E-03	1.80E-03	1.80E-03
397	587969.1	4154383	1.86E-02	1.86E-02	3.78E-02	3.78E-02	3.01E-03	3.01E-03	1.70E-03	1.70E-03
398	587963.9	4154390	1.84E-02	1.84E-02	3.74E-02	3.74E-02	2.98E-03	2.98E-03	1.68E-03	1.68E-03
399	587974.4	4154322	2.25E-02	2.25E-02	4.57E-02	4.57E-02	3.64E-03	3.64E-03	2.05E-03	2.05E-03
400	587976	4154332	2.17E-02	2.17E-02	4.42E-02	4.42E-02	3.52E-03	3.52E-03	1.98E-03	1.98E-03
401	587979.2	4154350	2.01E-02	2.01E-02	4.09E-02	4.09E-02	3.26E-03	3.26E-03	1.84E-03	1.84E-03
402	587980.8	4154359	1.92E-02	1.92E-02	3.91E-02	3.91E-02	3.12E-03	3.12E-03	1.76E-03	1.76E-03
403	587982.4	4154368	1.84E-02	1.84E-02	3.73E-02	3.73E-02	2.97E-03	2.97E-03	1.68E-03	1.68E-03
404	587978.9	4154385	1.74E-02	1.74E-02	3.53E-02	3.53E-02	2.81E-03	2.81E-03	1.58E-03	1.58E-03
405	587982.6	4154316	2.15E-02	2.15E-02	4.37E-02	4.37E-02	3.48E-03	3.48E-03	1.96E-03	1.96E-03
406	587984.2	4154325	2.09E-02	2.09E-02	4.24E-02	4.24E-02	3.38E-03	3.38E-03	1.91E-03	1.91E-03
407	587985.8	4154334	2.02E-02	2.02E-02	4.11E-02	4.11E-02	3.27E-03	3.27E-03	1.85E-03	1.85E-03
408	587987.4	4154343	1.95E-02	1.95E-02	3.96E-02	3.96E-02	3.15E-03	3.15E-03	1.78E-03	1.78E-03
409	587989	4154352	1.87E-02	1.87E-02	3.81E-02	3.81E-02	3.03E-03	3.03E-03	1.71E-03	1.71E-03
410	587990.6	4154361	1.79E-02	1.79E-02	3.65E-02	3.65E-02	2.91E-03	2.91E-03	1.64E-03	1.64E-03
411	587992.2	4154370	1.71E-02	1.71E-02	3.48E-02	3.48E-02	2.78E-03	2.78E-03	1.56E-03	1.56E-03
412	587973.6	4154409	1.56E-02	1.56E-02	3.18E-02	3.18E-02	2.53E-03	2.53E-03	1.43E-03	1.43E-03
413	587993.6	4154325	1.97E-02	1.97E-02	4.00E-02	4.00E-02	3.18E-03	3.18E-03	1.80E-03	1.80E-03
414	587995.3	4154334	1.90E-02	1.90E-02	3.86E-02	3.86E-02	3.08E-03	3.08E-03	1.74E-03	1.74E-03
415	587996.9	4154343	1.83E-02	1.83E-02	3.72E-02	3.72E-02	2.97E-03	2.97E-03	1.67E-03	1.67E-03
416	587998.6	4154353	1.76E-02	1.76E-02	3.58E-02	3.58E-02	2.85E-03	2.85E-03	1.61E-03	1.61E-03
417	588000.3	4154362	1.69E-02	1.69E-02	3.42E-02	3.42E-02	2.73E-03	2.73E-03	1.54E-03	1.54E-03
418	588001.9	4154372	1.61E-02	1.61E-02	3.27E-02	3.27E-02	2.61E-03	2.61E-03	1.47E-03	1.47E-03
419	587993	4154397	1.51E-02	1.51E-02	3.07E-02	3.07E-02	2.44E-03	2.44E-03	1.38E-03	1.38E-03
420	588008.5	4154355	1.65E-02	1.65E-02	3.35E-02	3.35E-02	2.67E-03	2.67E-03	1.50E-03	1.50E-03
421	588010.1	4154365	1.58E-02	1.58E-02	3.21E-02	3.21E-02	2.56E-03	2.56E-03	1.44E-03	1.44E-03
422	588008.2	4154391	1.43E-02	1.43E-02	2.91E-02	2.91E-02	2.32E-03	2.32E-03	1.31E-03	1.31E-03
423	588031.4	4154378	1.34E-02	1.34E-02	2.72E-02	2.72E-02	2.17E-03	2.17E-03	1.22E-03	1.22E-03
424	588027.8	4154395	1.27E-02	1.27E-02	2.59E-02	2.59E-02	2.06E-03	2.06E-03	1.16E-03	1.16E-03
425	588039.6	4154371	1.31E-02	1.31E-02	2.67E-02	2.67E-02	2.13E-03	2.13E-03	1.20E-03	1.20E-03
426	588041.2	4154380	1.26E-02	1.26E-02	2.57E-02	2.57E-02	2.04E-03	2.04E-03	1.15E-03	1.15E-03
427	588037.7	4154397	1.20E-02	1.20E-02	2.45E-02	2.45E-02	1.95E-03	1.95E-03	1.10E-03	1.10E-03
428	588032.6	4154404	1.19E-02	1.19E-02	2.42E-02	2.42E-02	1.93E-03	1.93E-03	1.09E-03	1.09E-03
429	588049.2	4154373	1.25E-02	1.25E-02	2.53E-02	2.53E-02	2.02E-03	2.02E-03	1.14E-03	1.14E-03
430	588050.9	4154382	1.20E-02	1.20E-02	2.43E-02	2.43E-02	1.94E-03	1.94E-03	1.09E-03	1.09E-03
431	588047.3	4154399	1.14E-02	1.14E-02	2.32E-02	2.32E-02	1.84E-03	1.84E-03	1.04E-03	1.04E-03
432	588042	4154407	1.13E-02	1.13E-02	2.29E-02	2.29E-02	1.83E-03	1.83E-03	1.03E-03	1.03E-03
433	588036.7	4154415	1.12E-02	1.12E-02	2.27E-02	2.27E-02	1.81E-03	1.81E-03	1.02E-03	1.02E-03
434	588060.7	4154384	1.13E-02	1.13E-02	2.30E-02	2.30E-02	1.83E-03	1.83E-03	1.03E-03	1.03E-03
435	588057.1	4154401	1.08E-02	1.08E-02	2.20E-02	2.20E-02	1.75E-03	1.75E-03	9.86E-04	9.86E-04

436	588051.9	4154409	1.07E-02	1.07E-02	2.18E-02	2.18E-02	1.73E-03	1.73E-03	9.78E-04	9.78E-04
437	588046.7	4154417	1.06E-02	1.06E-02	2.15E-02	2.15E-02	1.72E-03	1.72E-03	9.67E-04	9.67E-04
438	588041.4	4154425	1.05E-02	1.05E-02	2.13E-02	2.13E-02	1.69E-03	1.69E-03	9.55E-04	9.55E-04
439	588057.4	4154313	1.38E-02	1.38E-02	2.81E-02	2.81E-02	2.24E-03	2.24E-03	1.26E-03	1.26E-03
440	588059.1	4154322	1.35E-02	1.35E-02	2.74E-02	2.74E-02	2.18E-03	2.18E-03	1.23E-03	1.23E-03
441	588067	4154403	1.03E-02	1.03E-02	2.08E-02	2.08E-02	1.66E-03	1.66E-03	9.36E-04	9.36E-04
442	588061.8	4154411	1.02E-02	1.02E-02	2.07E-02	2.07E-02	1.65E-03	1.65E-03	9.29E-04	9.29E-04
443	588056.6	4154419	1.01E-02	1.01E-02	2.05E-02	2.05E-02	1.63E-03	1.63E-03	9.19E-04	9.19E-04
444	588051.4	4154426	9.94E-03	9.94E-03	2.02E-02	2.02E-02	1.61E-03	1.61E-03	9.08E-04	9.08E-04
445	588046.2	4154434	9.80E-03	9.80E-03	1.99E-02	1.99E-02	1.59E-03	1.59E-03	8.95E-04	8.95E-04
446	588020.3	4154473	8.76E-03	8.76E-03	1.78E-02	1.78E-02	1.42E-03	1.42E-03	8.00E-04	8.00E-04
447	588065.7	4154306	1.34E-02	1.34E-02	2.72E-02	2.72E-02	2.16E-03	2.16E-03	1.22E-03	1.22E-03
448	588067.3	4154315	1.31E-02	1.31E-02	2.66E-02	2.66E-02	2.12E-03	2.12E-03	1.19E-03	1.19E-03
449	588068.9	4154325	1.28E-02	1.28E-02	2.59E-02	2.59E-02	2.06E-03	2.06E-03	1.16E-03	1.16E-03
450	588070.6	4154334	1.24E-02	1.24E-02	2.52E-02	2.52E-02	2.01E-03	2.01E-03	1.13E-03	1.13E-03
451	588072.2	4154343	1.21E-02	1.21E-02	2.45E-02	2.45E-02	1.95E-03	1.95E-03	1.10E-03	1.10E-03
452	588076.8	4154405	9.75E-03	9.75E-03	1.98E-02	1.98E-02	1.58E-03	1.58E-03	8.90E-04	8.90E-04
453	588071.6	4154413	9.68E-03	9.68E-03	1.97E-02	1.97E-02	1.57E-03	1.57E-03	8.84E-04	8.84E-04
454	588066.5	4154421	9.58E-03	9.58E-03	1.95E-02	1.95E-02	1.55E-03	1.55E-03	8.75E-04	8.75E-04
455	588061.4	4154428	9.47E-03	9.47E-03	1.92E-02	1.92E-02	1.53E-03	1.53E-03	8.64E-04	8.64E-04
456	588056.2	4154436	9.34E-03	9.34E-03	1.90E-02	1.90E-02	1.51E-03	1.51E-03	8.52E-04	8.52E-04
457	588035.6	4154467	8.62E-03	8.62E-03	1.75E-02	1.75E-02	1.40E-03	1.40E-03	7.87E-04	7.87E-04
458	588030.5	4154474	8.40E-03	8.40E-03	1.71E-02	1.71E-02	1.36E-03	1.36E-03	7.67E-04	7.67E-04
459	588025.4	4154482	8.17E-03	8.17E-03	1.66E-02	1.66E-02	1.32E-03	1.32E-03	7.46E-04	7.46E-04
460	588020.2	4154490	7.92E-03	7.92E-03	1.61E-02	1.61E-02	1.28E-03	1.28E-03	7.23E-04	7.23E-04

Area	CalYr	Season	Fuel	Veh	MdlYr	VMT_Frac	Est_Pop	VMT	PM10_RUNEX	PM2_5_RUNEX	TOG_RUNEX	TOG_RUNLS	NOX_RUNEX	CO_RUNEX	SOX_RUNEX	ROG_RUNEX	CO2_RUNEX
Alameda	2023	Annual	Diesel	LDA	Aggregate	1	2383.83598	66808.0632	0.0234575	0.022442739	0.039962434	0	0.272704724	0.37189311	0.00227441	0.035103002	240.030071
Alameda	2023	Annual	Diesel	LDT1	Aggregate	1	32.0960468	392.218921	0.254703729	0.243685358	0.342701823	0	1.680528257	1.69540467	0.00399478	0.301029281	421.590273
Alameda	2023	Annual	Diesel	LDT2	Aggregate	1	848.139429	34133.2441	0.005866277	0.005612505	0.016138555	0	0.056206422	0.1366867	0.00301859	0.014176107	318.567895
Alameda	2023	Annual	Diesel	LHDT1	Aggregate	1	8925.7439	352807.821	0.040591633	0.038835657	0.212292224	0	1.812232887	0.5256413	0.00603588	0.18647749	636.998209
Alameda	2023	Annual	Diesel	LHDT2	Aggregate	1	3758.31472	152722.216	0.036160489	0.034596202	0.193707234	0	1.378670806	0.44130243	0.00722958	0.170152434	762.974994
Alameda	2023	Annual	Diesel	MDV	Aggregate	1	1855.50252	72688.7571	0.006189423	0.005921671	0.013872023	0	0.066895822	0.20365862	0.0039432	0.012185185	416.14629
Alameda	2023	Annual	Diesel	MH	Aggregate	1	683.945855	6905.47621	0.104122844	0.099618536	0.140573061	0	4.22457883	0.41269385	0.01025117	0.123479377	1081.86016
Alameda	2023	Annual	Diesel	OBUS	Aggregate	1	354.990725	26719.4388	0.039946228	0.038218172	0.096423068	0	1.919341566	0.25981238	0.01330915	0.08469874	1405.48996
Alameda	2023	Annual	Diesel	SBUS	Aggregate	1	400.835281	9594.31608	0.013284425	0.012709747	0.036694167	0	2.338612471	0.11226781	0.01103762	0.032232429	1165.60907
Alameda	2023	Annual	Diesel	MHDT	Aggregate	1	13864.8609	593729.329	0.012940082	0.0123803	0.03184899	0	1.139246383	0.10892636	0.01093921	0.02797639	1155.21621
Alameda	2023	Annual	Diesel	HHDT	Aggregate	1	13571.0475	1780455.79	0.028170622	0.026951974	0.018226929	0	1.827477006	0.08224336	0.01529332	0.01601067	1615.02526
Alameda	2023	Annual	Diesel	UBUS	Aggregate	1	691.183375	76010.4395	0.007479854	0.007156278	0.090640923	0	0.726899884	0.09354023	0.01218827	0.079619647	1286.29245
Alameda	2023	Annual	Gasoline	LDA	Aggregate	1	554013.656	20036783.1	0.001331107	0.001223916	0.015065384	0.25822007	0.048676068	0.75968125	0.00279407	0.010327319	282.628126
Alameda	2023	Annual	Gasoline	LDT1	Aggregate	1	53163.5365	1776790.8	0.001911387	0.001757504	0.04094606	0.52594517	0.133199403	1.39128519	0.00330408	0.0280662	334.217342
Alameda	2023	Annual	Gasoline	LDT2	Aggregate	1	246364.519	9488897.95	0.001371058	0.001260641	0.016992823	0.23158633	0.073629098	0.8326772	0.00345323	0.011645836	349.303941
Alameda	2023	Annual	Gasoline	LHDT1	Aggregate	1	18928.5048	709756.827	0.00170161	0.001564567	0.071011001	0.26837207	0.196978766	1.24808942	0.00883168	0.048664416	893.35034
Alameda	2023	Annual	Gasoline	LHDT2	Aggregate	1	2690.87147	98114.7363	0.001517528	0.001395311	0.050108341	0.24002056	0.188816245	0.98483649	0.0099402	0.034339653	1005.48047
Alameda	2023	Annual	Gasoline	MCY	Aggregate	1	26178.5211	151525.781	0.001934262	0.001812682	1.412879116	3.77949268	0.617561176	13.9447015	0.00188744	1.186792948	190.920419
Alameda	2023	Annual	Gasoline	MDV	Aggregate	1	132134.97	4851445.22	0.001385099	0.001273632	0.026038572	0.30675862	0.111797809	0.99438988	0.00418087	0.017866039	422.907648
Alameda	2023	Annual	Gasoline	MH	Aggregate	1	1923.03689	17442.5482	0.001966649	0.001808261	0.120400672	0.31157466	0.498825341	2.06546985	0.01925964	0.082511558	1948.17011
Alameda	2023	Annual	Gasoline	OBUS	Aggregate	1	636.506087	32464.4556	0.001012318	0.000930789	0.098735248	0.14355841	0.463364817	1.49529432	0.01765043	0.067664067	1785.39319
Alameda	2023	Annual	Gasoline	SBUS	Aggregate	1	79.55036	4233.02329	0.00121476	0.001116927	0.127828184	0.38601341	0.761282907	2.2502312	0.0079474	0.087601692	803.903249
Alameda	2023	Annual	Gasoline	MHDT	Aggregate	1	1683.24327	86640.7753	0.001383716	0.001272276	0.128533248	0.29477054	0.552724817	1.85073583	0.0179892	0.088084879	1819.66121
Alameda	2023	Annual	Gasoline	HHDT	Aggregate	1	7.47982347	943.51035	0.001372035	0.001261535	0.766220789	0.34574793	3.274065289	35.9991995	0.02284383	0.525097329	2310.72056
Alameda	2023	Annual	Gasoline	UBUS	Aggregate	1	254.240554	20789.9473	0.001030055	0.000947098	0.009594115	0.10624648	0.038161227	0.56349365	0.01004462	0.006574925	1016.04343

Vehicle Population (Daily) by Vehicle Class & Fuel Type													
Fuel	**LDA**	**LDT1**	**LDT2**	**LHD1**	**LHD2**	**MDV**	**MH**	**OBUS**	**SBUS**	**MHDT**	**HHDT**	**UBUS**	**MCY**
Gas	554,014	53,164	246,365	18,929	2,691	132,135	1,923	637	80	1,683	7	254	26,179
DSL	2,384	32	848	8,926	3,758	1,856	684	355	401	13,865	13,571	691	0
Total	556,397	53,196	247,213	27,854	6,449	133,990	2,607	991	480	15,548	13,579	945	26,179
											Grand Total	1,085,429	

Percent By Vehicle Class & Fuel Type													
Fuel	**LDA**	**LDT1**	**LDT2**	**LHD1**	**LHD2**	**MDV**	**MH**	**OBUS**	**SBUS**	**MHDT**	**HHDT**	**UBUS**	**MCY**
Gas	99.57%	99.94%	99.66%	67.96%	41.72%	98.62%	73.76%	64.20%	16.56%	10.83%	0.06%	26.89%	100.00%
DSL	0.43%	0.06%	0.34%	32.04%	58.28%	1.38%	26.24%	35.80%	83.44%	89.17%	99.94%	73.11%	0.00%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Overall Percent by Vehicle Class & Fuel Type													
Fuel	**LDA**	**LDT1**	**LDT2**	**LHD1**	**LHD2**	**MDV**	**MH**	**OBUS**	**SBUS**	**MHDT**	**HHDT**	**UBUS**	**MCY**
Gas	51.04%	4.90%	22.70%	1.74%	0.25%	12.17%	0.18%	0.06%	0.01%	0.16%	0.00%	0.02%	2.41%
DSL	0.22%	0.00%	0.08%	0.82%	0.35%	0.17%	0.06%	0.03%	0.04%	1.28%	1.25%	0.06%	0.00%
Total	51.26%	4.90%	22.78%	2.57%	0.59%	12.34%	0.24%	0.09%	0.04%	1.43%	1.25%	0.09%	2.41%

TOG Run Exhaust Emission Rate (g/mile) by Vehicle Class & Fuel Type													
Fuel	**LDA**	**LDT1**	**LDT2**	**LHD1**	**LHD2**	**MDV**	**MH**	**OBUS**	**SBUS**	**MHDT**	**HHDT**	**UBUS**	**MCY**
Gas	0.015	0.041	0.017	0.071	0.050	0.026	0.120	0.099	0.128	0.129	0.766	0.010	1.413
DSL	0.040	0.343	0.016	0.212	0.194	0.014	0.141	0.096	0.037	0.032	0.018	0.091	0.000

TOG Evaporative Losses Emission Rate (g/mile) by Vehicle Class & Fuel Type													
Fuel	**LDA**	**LDT1**	**LDT2**	**LHD1**	**LHD2**	**MDV**	**MH**	**OBUS**	**SBUS**	**MHDT**	**HHDT**	**UBUS**	**MCY**
Gas	0.258	0.526	0.232	0.268	0.240	0.307	0.312	0.144	0.386	0.295	0.346	0.106	3.779
DSL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

PM10 Emission Rate (g/mile) by Vehicle Class & Fuel Type													
Fuel	**LDA**	**LDT1**	**LDT2**	**LHD1**	**LHD2**	**MDV**	**MH**	**OBUS**	**SBUS**	**MHDT**	**HHDT**	**UBUS**	**MCY**
Gas	0.002	0.002	0.001	0.002	0.002	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002
DSL	0.023	0.255	0.006	0.041	0.036	0.006	0.104	0.040	0.013	0.013	0.027	0.007	0.000

PM2.5 Emission Rate (g/mile) by Vehicle Class & Fuel Type

Fuel	LDA	LDT1	LDT2	LHD1	LHD2	MDV	MH	OBUS	SBUS	MHDT	HHDT	UBUS	MCY
GAS	0.001	0.002	0.001	0.002	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002
DSL	0.022	0.244	0.006	0.039	0.035	0.006	0.100	0.038	0.013	0.012	0.027	0.007	0.000

NOx Emission Rate (g/mile)
by Vehicle Class & Fuel Type

Fuel	LDA	LDT1	LDT2	LHD1	LHD2	MDV	MH	OBUS	SBUS	MHDT	HHDT	UBUS	MCY
GAS	0.049	0.133	0.074	0.197	0.189	0.112	0.499	0.463	0.761	0.553	3.274	0.038	0.618
DSL	0.273	1.681	0.056	1.812	1.379	0.067	4.225	1.919	2.339	1.139	1.827	0.727	0.000

CO Emission Rate (g/mile)
by Vehicle Class & Fuel Type

Fuel	LDA	LDT1	LDT2	LHD1	LHD2	MDV	MH	OBUS	SBUS	MHDT	HHDT	UBUS	MCY
GAS	0.760	1.391	0.833	1.248	0.985	0.994	2.065	1.495	2.250	1.851	35.999	0.563	13.945
DSL	0.372	1.695	0.137	0.526	0.441	0.204	0.413	0.260	0.112	0.109	0.082	0.094	0.000

SOx Emission Rate (g/mile)
by Vehicle CLass & Fuel Type

Fuel	LDA	LDT1	LDT2	LHD1	LHD2	MDV	MH	OBUS	SBUS	MHDT	HHDT	UBUS	MCY
GAS	0.003	0.003	0.003	0.009	0.010	0.004	0.019	0.018	0.008	0.018	0.023	0.010	0.002
DSL	0.002	0.004	0.003	0.006	0.007	0.004	0.010	0.013	0.011	0.011	0.015	0.012	0.000

ROG Emission Rate (g/mile)
by Vehicle CLass & Fuel Type

Fuel	LDA	LDT1	LDT2	LHD1	LHD2	MDV	MH	OBUS	SBUS	MHDT	HHDT	UBUS	MCY
GAS	0.010	0.028	0.012	0.049	0.034	0.018	0.083	0.068	0.088	0.088	0.525	0.007	1.187
DSL	0.035	0.301	0.014	0.186	0.170	0.012	0.123	0.085	0.032	0.028	0.016	0.080	0.000

CO2 Emission Rate (g/mile)
by Vehicle CLass & Fuel Type

Fuel	LDA	LDT1	LDT2	LHD1	LHD2	MDV	MH	OBUS	SBUS	MHDT	HHDT	UBUS	MCY
GAS	282.63	334.22	349.30	893.35	1005.48	422.91	1948.17	1785.39	803.90	1819.66	2310.72	1016.04	190.92
DSL	240.03	421.59	318.57	637.00	762.97	416.15	1,081.86	1,405.49	1,165.61	1,155.22	1,615.03	1,286.29	0.00

CARB
TOG Speciation Profile
Run Exhaust

CARB
TOG Speciation Profile
Evaporative Losses

CAS#	Chemical Name	Fraction
75070	Acetaldehyde	2.80E-03
107028	Acrolein	1.30E-03
71432	Benzene	2.47E-02
106990	1,3-Butadiene	5.50E-03
100414	Ethylbenzene	1.05E-02
50000	Formaldehyde	1.58E-02
110543	Hexane	1.60E-02
67561	Methanol	1.20E-03
78933	Methyl Ethyl Ketone	2.00E-04
91203	Naphthalene	5.00E-04
115071	Propylene	3.06E-02
100425	Styrene	1.20E-03
108883	Toluene	5.76E-02
1330207	Xylenes	4.80E-02

CAS#	Chemical Name	Fraction
71432	Benzene	3.600E-03
100414	Ethylbenzene	1.180E-03
110543	Hexane	1.540E-02
108883	Toluene	1.700E-02
1330207	Xylenes	5.780E-03

Street Name:	**I-880**					
Street AADT:	**190,000**	Caltrans 2020			**County Code:**	
Use County Trk %	**N**	4.36%	8292	Adjustment	**County Abbr.:**	
User Truck %:	**5.43**	Caltrans 2020	10317	1.24	**Facility ID:**	
Days / Year	**365**				**Device ID**	
Average Speed:	**0-90**	MPH			**Process ID:**	
Distance Modeled:	**670**	meters =	2198	Feet		
Emissions Start Year:	**2023**					

AADT by Vehicle Class & Fuel Type

Fuel	LDA	LDT1	LDT2	LHD1	LHD2	MDV	MH	OBUS	SBUS	MHDT	HHDT	UBUS	MCY
Gas	96,876	9,305	43,089	2,932	310	23,050	307	96	0	0	0	15	4,582
DSL	519	7	185	1,944	819	404	149	77	87	3,020	2,956	151	0
Totals	97,395	9,312	43,274	4,876	1,129	23,454	456	174	87	3,020	2,956	165	4,582

TOG Run Exhaust Emissions (lbs/day) by Vehicles Class & Fuel Type

Fuel	LDA	LDT1	LDT2	LHD1	LHD2	MDV	MH	OBUS	SBUS	MHDT	HHDT	UBUS	MCY
Gas	1.34	0.35	0.67	0.19	0.01	0.55	0.03	0.01	0.00	0.00	0.00	0.00	5.94
DSL	0.02	0.00	0.00	0.38	0.15	0.01	0.02	0.01	0.00	0.09	0.05	0.01	0.00
Sum	1.36	0.35	0.67	0.57	0.16	0.56	0.05	0.02	0.00	0.09	0.05	0.01	5.94
										Lbs / Yr	3,590	lbs/Day	9.84
												GAS	9.10

TOG Evaporative Losses Emissions (lbs/day) by Vehicles Class & Fuel Type

Fuel	LDA	LDT1	LDT2	LHD1	LHD2	MDV	MH	OBUS	SBUS	MHDT	HHDT	UBUS	MCY
Gas	22.96	4.49	9.16	0.72	0.07	6.49	0.09	0.01	0.00	0.00	0.00	0.00	15.90
DSL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sum	22.96	4.49	9.16	0.72	0.07	6.49	0.09	0.01	0.00	0.00	0.00	0.00	15.90
										Lbs / Yr	21,860	lbs/Day	59.89

PM10 Emissions (lbs/day) by Vehicles Class & Fuel Type

Fuel	LDA	LDT1	LDT2	LHD1	LHD2	MDV	MH	OBUS	SBUS	MHDT	HHDT	UBUS	MCY
Gas	0.17	0.02	0.05	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01
DSL	0.01	0.00	0.00	0.07	0.03	0.00	0.01	0.00	0.00	0.04	0.07	0.00	0.00
Sum	0.18	0.02	0.06	0.08	0.03	0.03	0.01	0.00	0.00	0.04	0.07	0.00	0.01
										Lbs / Yr	192.52	lbs/Day	0.53
									DSL Only	Lbs / Yr	89.00	lbs/Day	0.24

PM2.5 Emissions (lbs/day) by Vehicles Class & Fuel Type

Fuel	LDA	LDT1	LDT2	LHD1	LHD2	MDV	MH	OBUS	SBUS	MHDT	HHDT	UBUS	MCY
Gas	0.11	0.02	0.05	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01
DSL	0.01	0.00	0.00	0.07	0.03	0.00	0.01	0.00	0.00	0.03	0.07	0.00	0.00
Sum	0.12	0.02	0.05	0.07	0.03	0.03	0.01	0.00	0.00	0.03	0.07	0.00	0.01
								DSL Only	0.24	Lbs / Yr	164	lbs/Day	0.45

Street Name: I-880

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NOx Emissions (lbs/day) by Vehicles Class & Fuel Type													
Fuel	**LDA**	**LDT1**	**LDT2**	**LHD1**	**LHD2**	**MDV**	**MH**	**OBUS**	**SBUS**	**MHDT**	**HHDT**	**UBUS**	**MCY**
Gas	4.33	1.14	2.91	0.53	0.05	2.37	0.14	0.04	0.00	0.00	0.00	0.00	2.60
DSL	0.13	0.01	0.01	3.23	1.04	0.02	0.58	0.14	0.19	3.16	4.96	0.10	0.00
Sum	4.46	1.15	2.92	3.76	1.09	2.39	0.72	0.18	0.19	3.16	4.96	0.10	2.60
										Lbs / Yr	10,099	lbs/Day	27.67

CO Emissions (lbs/day) by Vehicles Class & Fuel Type													
Fuel	**LDA**	**LDT1**	**LDT2**	**LHD1**	**LHD2**	**MDV**	**MH**	**OBUS**	**SBUS**	**MHDT**	**HHDT**	**UBUS**	**MCY**
Gas	67.55	11.88	32.93	3.36	0.28	21.04	0.58	0.13	0.00	0.00	0.00	0.01	58.65
DSL	0.18	0.01	0.02	0.94	0.33	0.08	0.06	0.02	0.01	0.30	0.22	0.01	0.00
Sum	67.73	11.89	32.95	4.30	0.61	21.11	0.64	0.15	0.01	0.30	0.22	0.02	58.65
										Lbs / Yr	72,486	lbs/Day	198.59

SOx Emissions (lbs/day) by Vehicles Class & Fuel Type													
Fuel	**LDA**	**LDT1**	**LDT2**	**LHD1**	**LHD2**	**MDV**	**MH**	**OBUS**	**SBUS**	**MHDT**	**HHDT**	**UBUS**	**MCY**
Gas	0.25	0.03	0.14	0.02	0.00	0.09	0.01	0.00	0.00	0.00	0.00	0.00	0.01
DSL	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.03	0.04	0.00	0.00
Sum	0.25	0.03	0.14	0.03	0.01	0.09	0.01	0.00	0.00	0.03	0.04	0.00	0.01
										Lbs / Yr	233	lbs/Day	0.64

ROG Emissions (lbs/day) by Vehicles Class & Fuel Type													
Fuel	**LDA**	**LDT1**	**LDT2**	**LHD1**	**LHD2**	**MDV**	**MH**	**OBUS**	**SBUS**	**MHDT**	**HHDT**	**UBUS**	**MCY**
Gas	0.92	0.24	0.46	0.13	0.01	0.38	0.02	0.01	0.00	0.00	0.00	0.00	4.99
DSL	0.02	0.00	0.00	0.33	0.13	0.00	0.02	0.01	0.00	0.08	0.04	0.01	0.00
Sum	0.94	0.24	0.46	0.46	0.14	0.38	0.04	0.01	0.00	0.08	0.04	0.01	4.99
										Lbs / Yr	2,848	lbs/Day	7.80

CO2 Emissions (lbs/day) by Vehicles Class & Fuel Type													
Fuel	**LDA**	**LDT1**	**LDT2**	**LHD1**	**LHD2**	**MDV**	**MH**	**OBUS**	**SBUS**	**MHDT**	**HHDT**	**UBUS**	**MCY**
Gas	25130.75	2854.34	13814.74	2403.98	286.43	8947.42	549.64	157.72	0.00	0.00	0.00	13.95	803.02
DSL	114.38	2.70	54.01	1136.59	573.22	154.36	147.92	99.74	93.40	3201.83	4381.39	177.73	0.00
Sum	25245.13	2857.04	13868.75	3540.56	859.65	9101.77	697.56	257.45	93.40	3201.83	4381.39	191.68	803.02
										Lbs / Yr	23,761,222	lbs/Day	65099.24

- -

Toxic Emissions by Vehicles Category (Lbs/Day)													
Running Exhaust													
CAS#	**LDA**	**LDT1**	**LDT2**	**LHD1**	**LHD2**	**MDV**	**MH**	**OBUS**	**SBUS**	**MHDT**	**HHDT**	**UBUS**	**MCY**
75070	3.75E-03	9.79E-04	1.88E-03	5.35E-04	4.00E-05	1.54E-03	9.51E-05	2.44E-05	0.00E+00	0.00E+00	0.00E+00	3.69E-07	1.66E-02
107028	1.74E-03	4.55E-04	8.74E-04	2.48E-04	1.86E-05	7.16E-04	4.42E-05	1.13E-05	0.00E+00	0.00E+00	0.00E+00	1.71E-07	7.73E-03
71432	3.31E-02	8.64E-03	1.66E-02	4.72E-03	3.53E-04	1.36E-02	8.39E-04	2.15E-04	0.00E+00	0.00E+00	0.00E+00	3.25E-06	1.47E-01
106990	7.37E-03	1.92E-03	3.70E-03	1.05E-03	7.85E-05	3.03E-03	1.87E-04	4.80E-05	0.00E+00	0.00E+00	0.00E+00	7.24E-07	3.27E-02
100414	1.41E-02	3.67E-03	7.06E-03	2.01E-03	1.50E-04	5.78E-03	3.57E-04	9.16E-05	0.00E+00	0.00E+00	0.00E+00	1.38E-06	6.24E-02
50000	2.12E-02	5.53E-03	1.06E-02	3.02E-03	2.26E-04	8.70E-03	5.37E-04	1.38E-04	0.00E+00	0.00E+00	0.00E+00	2.08E-06	9.39E-02
110543	2.14E-02	5.60E-03	1.08E-02	3.06E-03	2.28E-04	8.81E-03	5.44E-04	1.40E-04	0.00E+00	0.00E+00	0.00E+00	2.11E-06	9.51E-02
67561	1.61E-03	4.20E-04	8.06E-04	2.29E-04	1.71E-05	6.61E-04	4.08E-05	1.05E-05	0.00E+00	0.00E+00	0.00E+00	1.58E-07	7.13E-03
78933	2.68E-04	6.99E-05	1.34E-04	3.82E-05	2.85E-06	1.10E-04	6.79E-06	1.74E-06	0.00E+00	0.00E+00	0.00E+00	2.63E-08	1.19E-03
91203	6.70E-04	1.75E-04	3.36E-04	9.55E-05	7.14E-06	2.75E-04	1.70E-05	4.36E-06	0.00E+00	0.00E+00	0.00E+00	6.59E-08	2.97E-03
115071	4.10E-02	1.07E-02	2.06E-02	5.85E-03	4.37E-04	1.69E-02	1.04E-03	2.67E-04	0.00E+00	0.00E+00	0.00E+00	4.03E-06	1.82E-01
100425	1.61E-03	4.20E-04	8.06E-04	2.29E-04	1.71E-05	6.61E-04	4.08E-05	1.05E-05	0.00E+00	0.00E+00	0.00E+00	1.58E-07	7.13E-03
108883	7.72E-02	2.01E-02	3.87E-02	1.10E-02	8.22E-04	3.17E-02	1.96E-03	5.02E-04	0.00E+00	0.00E+00	0.00E+00	7.59E-06	3.42E-01
1330207	6.43E-02	1.68E-02	3.23E-02	9.17E-03	6.85E-04	2.64E-02	1.63E-03	4.19E-04	0.00E+00	0.00E+00	0.00E+00	6.32E-06	2.85E-01
Evaporavtive Losses													
71432	8.27E-02	1.62E-02	3.30E-02	2.60E-03	2.46E-04	2.34E-02	3.16E-04	4.57E-05	0.00E+00	0.00E+00	0.00E+00	5.25E-06	5.72E-02
100414	2.71E-02	5.30E-03	1.08E-02	8.52E-04	8.07E-05	7.66E-03	1.04E-04	1.50E-05	0.00E+00	0.00E+00	0.00E+00	1.72E-06	1.88E-02
110543	3.54E-01	6.92E-02	1.41E-01	1.11E-02	1.05E-03	9.99E-02	1.35E-03	1.95E-04	0.00E+00	0.00E+00	0.00E+00	2.25E-05	2.45E-01
108883	3.90E-01	7.64E-02	1.56E-01	1.23E-02	1.16E-03	1.10E-01	1.49E-03	2.16E-04	0.00E+00	0.00E+00	0.00E+00	2.48E-05	2.70E-01
1330207	1.33E-01	2.60E-02	5.29E-02	4.17E-03	3.95E-04	3.75E-02	5.08E-04	7.33E-05	0.00E+00	0.00E+00	0.00E+00	8.43E-06	9.19E-02

Street Name: **I-880**

District HARP OnRamp Input Table							
County	Facility	Calendar	Device	Process		**lbs**	
Code	ID	Year	ID	ID	CAS#	Annual	Hourly
0	**0**	2023	0	0	9901	8.90E+01	1.02E-02
0	**0**	2023	0	0	75070	9.30E+00	1.06E-03
0	**0**	2023	0	0	107028	4.32E+00	4.93E-04
0	**0**	2023	0	0	71432	1.61E+02	1.84E-02
0	**0**	2023	0	0	106990	1.83E+01	2.09E-03
0	**0**	2023	0	0	100414	6.07E+01	6.93E-03
0	**0**	2023	0	0	50000	5.25E+01	5.99E-03
0	**0**	2023	0	0	110543	3.90E+02	4.45E-02
0	**0**	2023	0	0	67561	3.99E+00	4.55E-04
0	**0**	2023	0	0	78933	6.65E-01	7.59E-05
0	**0**	2023	0	0	91203	1.66E+00	1.90E-04
0	**0**	2023	0	0	115071	1.02E+02	1.16E-02
0	**0**	2023	0	0	100425	3.99E+00	4.55E-04
0	**0**	2023	0	0	108883	5.63E+02	6.43E-02
0	**0**	2023	0	0	1330207	2.86E+02	3.26E-02

Years of Data: **0** Exposure Years **70**

					Gasoline				Diesel			
Risk Year	Period (years)	Age Sensitivity Factor	Sensitivity Weighting Factor	EMFAC Year	VMT /1000	Tons /day	Emission Rate (g/vehicle-mile)	Sensitivity Weighted Emission Rate (g/vehicle-mile)	VMT /1000	Tons /day	Emission Rate (g/vehicle-mile)	Sensitivity Weighted Emission Rate (g/vehiclemile)
1	0	1	0.000				0.0000	0.00000			0.000	0.00000
2	0	1	0.000				0.0000	0.00000			0.000	0.00000
3	0	1	0.000				0.0000	0.00000			0.000	0.00000
4	0	1	0.000				0.0000	0.00000			0.000	0.00000
5	0	1	0.000				0.0000	0.00000			0.000	0.00000
6	0	1	0.000				0.0000	0.00000			0.000	0.00000
7	0	1	0.000				0.0000	0.00000			0.000	0.00000
8	0	1	0.000				0.0000	0.00000			0.000	0.00000
9	0	1	0.000				0.0000	0.00000			0.000	0.00000
10	0	1	0.000				0.0000	0.00000			0.000	0.00000
11	0	1	0.000				0.0000	0.00000			0.000	0.00000
12	0	1	0.000				0.0000	0.00000			0.000	0.00000
13	0	1	0.000				0.0000	0.00000			0.000	0.00000
14	0	1	0.000				0.0000	0.00000			0.000	0.00000
15	0	1	0.000				0.0000	0.00000			0.000	0.00000
16	0	1	0.000				0.0000	0.00000			0.000	0.00000
17	0	1	0.000				0.0000	0.00000			0.000	0.00000
18	0	1	0.000				0.0000	0.00000			0.000	0.00000
19	0	1	0.000				0.0000	0.00000			0.000	0.00000
20	0	1	0.000				0.0000	0.00000			0.000	0.00000
21	0	1	0.000				0.0000	0.00000			0.000	0.00000
22	0	1	0.000				0.0000	0.00000			0.000	0.00000
23	0	1	0.000				0.0000	0.00000			0.000	0.00000
24	0	1	0.000				0.0000	0.00000			0.000	0.00000
25	0	1	0.000				0.0000	0.00000			0.000	0.00000
26	0	1	0.000				0.0000	0.00000			0.000	0.00000
27	0	1	0.000				0.0000	0.00000			0.000	0.00000
28	0	1	0.000				0.0000	0.00000			0.000	0.00000
29	0	1	0.000				0.0000	0.00000			0.000	0.00000
30	0	1	0.000				0.0000	0.00000			0.000	0.00000
31	0	1	0.000				0.0000	0.00000			0.000	0.00000
32	0	1	0.000				0.0000	0.00000			0.000	0.00000
33	0	1	0.000				0.0000	0.00000			0.000	0.00000
34	0	1	0.000				0.0000	0.00000			0.000	0.00000
35	0	1	0.000				0.0000	0.00000			0.000	0.00000
36	0	1	0.000				0.0000	0.00000			0.000	0.00000
	0		0.0				70 yr g/VMT	0.0000			70 yr g/VMT	0.0000

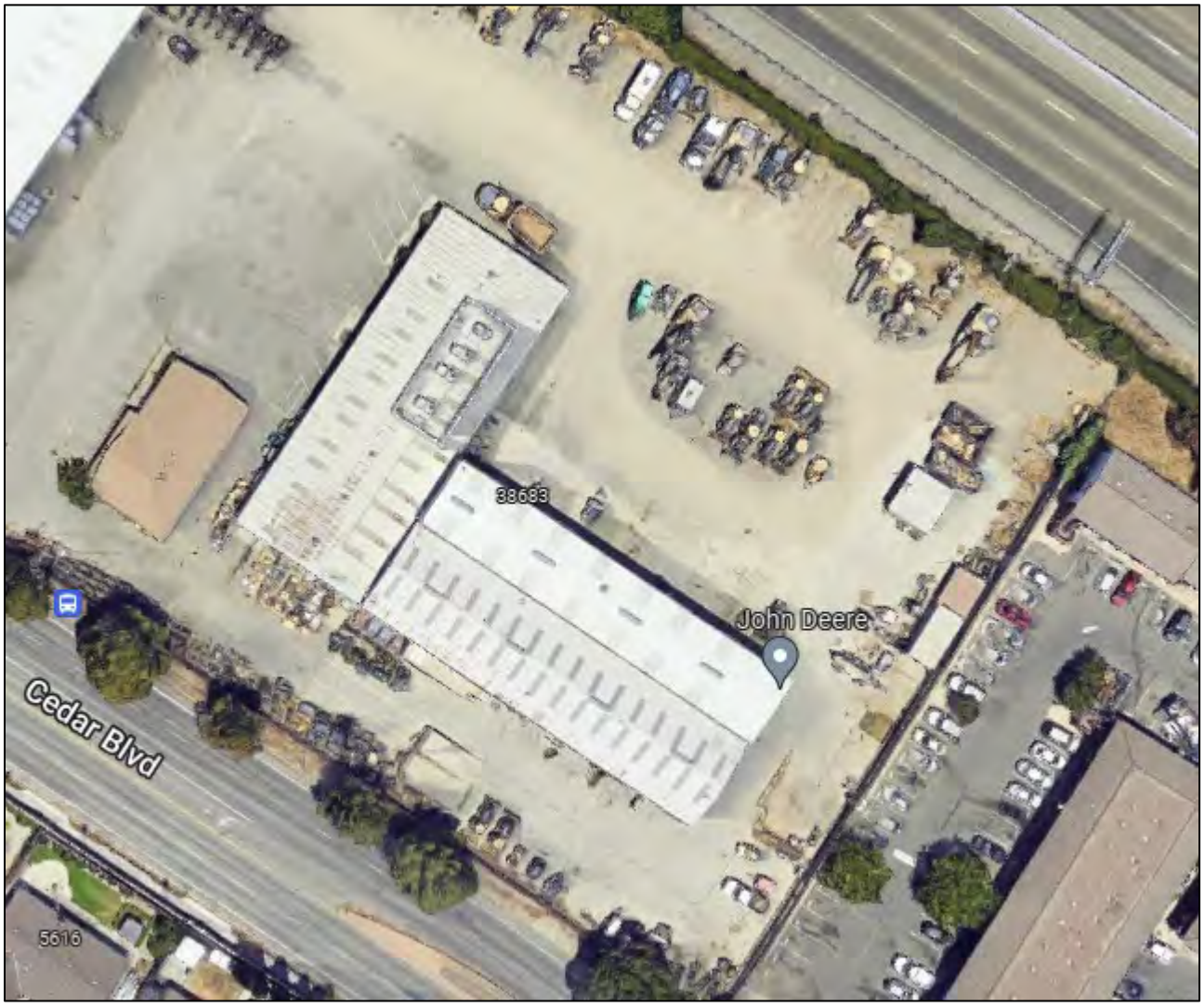
Note: at age 2*, the factors are weighted for 0.25 years by 10 and 0.75 years by 3; at age 16**, the factor is weighted by 0.25 years at 3 and 0.75 by 1.

TOG Adjustment Factor	#DIV/0!

PM10 Adjustment Factor	1.00

APPENDIX B

Historic Resource Evaluation
38600 Cedar Blvd.
Newark, Alameda County, California



Prepared for
Waymark Development
Newport Beach, California

Prepared by
Diana J. Painter, PhD
Painter Preservation

November 21, 2022

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Painter Preservation
HISTORIC PRESERVATION & URBAN DESIGN

November 21, 2022

Mr. Caden Proctor
Waymark Development
2801 W. Coast Hwy., Suite 270
Newport Beach, CA 92663

Re Historic Resource Evaluation for 38600 Cedar Blvd., Newark, CA

Dear Caden,

This letter and the attached Department of Parks and Recreation (DPR) 523 forms comprise an Historic Resource Evaluation (HRE) for the property at 38600 Cedar Blvd., Newark, Alameda County, California. The property is composed of two parcels currently occupied by Pape Machinery. The subject parcel includes two buildings, both constructed in 1962. The neighboring property to the northwest is occupied by one building that was constructed in 1979. As a result, it is not evaluated here as it is not yet 50 years of age, the threshold by which a property may typically be considered a historic resource if it is significant and also retains integrity.

Purpose
This HRE was undertaken to establish the historic significance of the buildings at 38600 Cedar Blvd. in Newark. If found to be historic resources under the National Register Criteria for Evaluation, the California Eligibility Criteria, or the City of Newark criteria for designation, the demolition of the two buildings could be found to have an impact under CEQA. To be eligible for listing in these registers, the buildings would have to be over 50 years of age, be historically significant, and have to retain integrity.

Findings
This HRE finds that, although the subject buildings are over 50 years of age, they are not historically significant under any of the criteria documented in this HRE. They are not found to be part of important events or patterns of local, state or national history. Nor are they significant for an association with people important to local, state or national history. They are not architecturally significant. Nor are they important for their information value (see attached DPR forms for additional information).

Research and field methods
The subject buildings were recorded and documented in photos and field notes on November 3, 2022. The following resources were utilized in documenting the history and architecture of the buildings. Two people were interviewed, the utilities manager on site and the district manager of Pape Machinery. Resources from government offices included building permits from the City of Newark and Assessor Records from the Alameda County Assessor. Information about the City of Newark was obtained from the city's website and standard history texts, including "Newark" by Frank Addiego and "A Brief History of Washington Township" by Phil Holmes, published by the Washington County Museum of Local History on their website. Other online sources include newspaper articles. Architectural background was provided by standard architectural texts (see References) and previous HREs by Diana Painter. Additional information was provided by historic maps and aerial photographs.

Evaluator qualifications
Diana Painter, who undertook preparation of this report, is a qualified architectural historian whose credentials meet the Secretary of the Interior's Professional Qualification Standards in the area of Architectural History (36 CFR Part 61). Ms. Painter holds a PhD in Architecture and has a Master's

Degree in Urban Design/Urban Planning. She has 40 years of professional experience in historic preservation and urban design. She is the owner of Painter Preservation, a full-service historic preservation consulting firm established in Petaluma in 2002. She is listed as an architectural historian on the roster of consultants on file with the California Historical Resource Information System at the University of California, Riverside.

Please do not hesitate to contact me if you have any comments or questions.

Sincerely,

Diana Painter

Diana J. Painter, PhD
Owner/Principal Architectural Historian

State of California ♦ The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code
Other Listings
Review Code Reviewer Date

***Resource Name:** 38600 Cedar Blvd.

P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ■ **Unrestricted**

***a. County** Alameda **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad** Newark **Date** 2021 **T** ___; **R** ___; ___ ☐ **of** ___ ☐ **of Sec** ___; Mt. Diablo_**B.M.**

c. Address 38600 Cedar Blvd. City Newark Zip 94560

d. UTM: (Give more than one for large and/or linear resources) Zone ___, _____ mE/ _____ mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
APN 92A-2585-31

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Location and setting

Pape Machinery, at 38600 Cedar Blvd. is a located on a 40,000 square foot parcel located between the Nimitz Freeway (I-880), which trends northwest to southeast here, and Cedar Blvd., which parallels the freeway to the southwest. It is about one-third of a mile northwest of the intersection of the freeway and Mowry Avenue, which crosses the freeway with an overpass. This is also the location of an interchange, allowing for exiting and accessing the freeway. The closest cross street to the parcel is Moores Avenue, which abuts Cedar Blvd. about where the driveway into the site is located on the southwest side. The lot is occupied by two buildings. **Continued on sheet 2**

***P3b. Resource Attributes:** (List attributes and codes) HP8: Industrial bldg.; HP6: 1-3 story commercial bldg.

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



***P4. Resources Present:** ■ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (view, date, accession #) Garage, west façade, looking east, 11-3-2022

***P6. Date Constructed/Age and Source:** ■ Historic ☐ Prehistoric ☐ Both 1962

***P7. Owner and Address:**
Waymark Development
2801 W. Coast Hwy., Suite 270
Newport Beach, CA 92663

***P8. Recorded by:** (Name, affiliation, and address)
Diana J. Painter, PhD
Painter Preservation
3681 Cleveland Avenue
Santa Rosa, CA 95403

***P9. Date Recorded:**
November 3, 2022

***P10. Survey Type:** (Describe)
Intensive for Historic Resource Evaluation

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") None

***Attachments:** ☐NONE ■Location Map ■Continuation Sheet ■Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List): _____

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 38600 Cedar Blvd ***NRHP Status Code** 6Z

B1. Historic Name: International Harvester
B2. Common Name: 38600 Cedar Blvd.
B3. Original Use: Construction equipment dealership
B4. Present Use: Construction equipment dealership
***B5. Architectural Style:** Other: Utilitarian; Modern Movement: Ranch style
***B6. Construction History:** (Construction date, alterations, and date of alterations)
Both the garage and office building were constructed in 1962. No known alterations took place between 1962 and 1965, when the buildings appeared as they are today. An exception is the enclosure of the HVAC equipment on Wing A was added in 2005.

***B7. Moved?** ■**No** □**Yes** □**Unknown** **Date:** _____ **Original Location:** _____
***B8. Related Features:**
Related features include fences, signage, a concrete ramp, and landscaping.

B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme** Industrial development **Area** Newark
Period of Significance 1962 **Property Type** Garage, office **Applicable Criteria** None
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

The attached Department of Parks and Recreation (DPR) 523 forms and cover document comprise a Historic Resource Evaluation (HRE) for the property at 38600 Cedar Blvd., Newark, Alameda County, California. This HRE finds that, although the subject buildings are over 50 years of age, they are not historically significant under any of the criteria documented in this HRE. They are not found to be part of important events or patterns of local, state or national history. Nor are they significant for an association with people important to local, state or national history. They are not architecturally significant. Nor are they important for their information value (see attached DPR forms for additional information). **Continued on sheet 3**

B11. Additional Resource Attributes: (List attributes and codes) HP8: Industrial bldg.; HP6: 1-3 story commercial bldg.
***B12. References:**
See sheet 35

B13. Remarks: None

***B14. Evaluator:** Diana J. Painter, PhD
***Date of Evaluation:** November 18, 2022

(Sketch Map with north arrow required.)

(This space reserved for official comments.)

***P3a. Description: Continued from sheet 1**

Architectural description – 38600 Cedar Blvd.

The land that Pape Machinery is located on today consists of two parcels. The northwest parcel is .918 acres in size and is occupied by a warehouse. The warehouse was constructed in 1979 and will not be evaluated here, as it is not 50 years of age, which is the typical threshold for a building to be considered a historic resource. The second and subject parcel is 2.63 acres in size and is occupied by two buildings, a garage that is 23,704 square feet in size and a Ranch style office that is 1,984 square feet in size. Both were constructed in 1962. The building with the residential appearance was constructed as an office for the adjacent shop and warehouse.

The area in which the buildings are located exhibits a wide variety of land uses. Many of the parcels paralleling the freeway on the southwest side are occupied with industrial uses, often in similar metal buildings. These are slowly giving way to housing developments. For example, a large parcel to the southeast of the subject parcel was redeveloped from industrial buildings to apartment dwellings some time between 2016 and 2018. Nearby, single-family neighborhoods were developed in the 1960s. Newer, more intensive residential development is recent. A large shopping mall called Newpark, with structured and surface parking, is located in the south-southeast quadrant of the intersection of the freeway and Mowry Avenue. Other commercial development and a high school is located south of the ring road encircling the mall. Additional commercial development is located in the north-northwest and north-northeast quadrants of the intersection of the interchange. Numerous motels are located in the area as well. The subject lot is zoned for medium density residential uses.

Architecture - garage

Overview. The garage is occupied by several uses, including offices and the garage portion of the building, which is dominated by craneways, which are the beams on which a crane trolley travels. The L-shaped building is one story in height, with mezzanines in the central portion of Wing C that are occupied by offices or former offices and a library with repair manuals. The main entrance to the building faces west (northwest), toward the lot line between this parcel and the neighboring parcel to the northwest, which is occupied by the 1979 warehouse. The building itself has at least three component parts. A portion with a shallow gable is located on the west side of the building, with its ridgeline oriented largely north-south (Wing A). This portion of the building has the lowest roof and contains the main entrance. A high corrugated metal wall with a metal coping which encloses HVAC equipment is located on the east side of the roof. Two parallel components of the building on the east side have gable ridgelines oriented west to east. The southerly gabled building (Wing C) has a moderately sloped gable roof. The northerly building (Wing B) has a low pitched gable but is a taller building. According to the utilities manager Manny Quintalla, this is necessary due to the larger equipment that the business services here. A shallow enclosure with a shed roof on the south side of the building is used for hazardous materials storage. Steel I-beams in multiple bays frame the building. The beams supporting the roofs are symmetrical, while the vertical beams are tapered, with the smaller dimension located closest to the ground. The building is clad in corrugated metal and the foundation is slab concrete. The roof is clad in metal as well, with corrugated fiberglass panels for additional light. It is a utilitarian building.

Figure 1: Key map



Wing A – west facade: This wing of the building faces the interior of the lot and contains the main building entrance to the offices. These offices came into use when the Horton building, as the Ranch house building is known, was no longer used for offices after Pape Machinery located here. The main entry is composed of a double entry door with full height glass topped by a transom window. To its left is a tall, paired fixed light over a bulkhead that is a solid brown panel. Above the door and these two windows are three solid panels that extend to the narrow building eaves, the one over the door having "Pape Machinery" spelled out. Frames are anodized aluminum. A low concrete pad fronts this ensemble. To the right of the doorway is a one-over-one-light window, the upper light being fixed and the lower one being a hopper window. The bulkhead and transom here are solid panels of the same proportions as seen on the entry ensemble. There are two additional windows of the same design to the left. To the left of these windows are three similarly proportioned windows that do not display the same black anodized aluminum frames as the central windows and instead match the color of the corrugated metal siding of the building. On the right side of this façade is a metal pedestrian door with a small light in the upper

portion and a large solid panel that appears to have been an overhead door at one time. Above the eaves on this façade the corrugated metal enclosure that screens the HVAC units is visible.

North façade: The north façade of this wing displays a wall of glazing that is composed of a bank of tall windows over solid bulkheads. Above the windows are solid panels, under deep open eaves. This façade is fronted by foundation plantings and a narrow sidewalk. It faces out onto a yard that is used for parking equipment. Beyond that is the freeway, separated from the yard by tall shrubs.

East façade: The east façade of the wing faces a work area that is defined by the L-formation of Wings A and B. There is one window on this façade of the same design as those seen on the west façade of Wing A. There are otherwise three metal pedestrian doors on this façade under narrow eaves. There are no other openings on this façade.

Wing B - north façade: The north façade of Wing B forms the other side of the work yard that is defined in part by Wing A. Wing B is the tallest wing on the site and has no eave overhang. It is composed of seven very large overhead metal doors with narrow ribs. Above the doors are three signs displaying the equipment brands that the company services, plus one said that says “We Service All Makes.” A small, six-light window is located on the far north end of this façade.

East façade: There are no openings on the east façade of this building. The bottom portion is clad in corrugated metal siding with wide proportions, while the cladding above the eave line has narrow corrugations. There is no eave overhang.

Wing C – south façade: The south façade of Wing C has four large overhead doors on the southeast end similar in design as those seen on Wing B. They extend to under the narrow eave line because this wing is shorter than Wing B. Toward the west end is a doorway to a projecting addition with a shed roof that is used to store hazardous materials. There are four entry doors on this addition. To its left is a two-light sliding window with an aluminum frame. Also visible on this façade is the south end façade of Wing A. This displays one overhead garage door near the southwest corner.

East façade*:* The east façade of Wing C has no openings. Like the east façade of Wing B, which it is adjacent to, it has wide corrugated metal cladding on the lower portion and narrower cladding on the upper portion, extending to narrow eaves.

Changes over time: All three wings of the 1962 building were in place in 1965; it is not known whether construction was phased (UCSB Library Geospatial Collection). The HVAC roof screen on Wing A was added in 2005.

Interiors: The interior of Wing A is made up of enclosed offices and cubicles. Rooms are used for offices and conference rooms. There is a receptionist counter at the entry and a parts counter on the south side of this wing. A hall with a door to the service area is located on the back, east wall in the southeast corner and a hall with a door to the training center is located on the east wall in the northeast corner. Also present in this area are restrooms and coffee stations. This wing is finished in sheet rock with interior cubical partitions, a dropped ceiling, fluorescent lighting, and linoleum floors.

Two major craneways are located within Wings B and C, both oriented east-west, or down the length of the buildings. The cranes are attached to longitudinal beams that are in turn mounted on the steel ceiling rafters. Numerous types of pneumatic equipment are operated in each bay. The bays between the two buildings are largely open, allowing passage from one side to the other. Toward the west end of Wing C are offices and restrooms. At the mezzanine level, up a flight of 14 steps, is a library that is open to the floor and a former enclosed office. Finishes here are primarily the corrugated metal of the building

exteriors and wood-framing and plywood in the portion with offices. The fluorescent lighting is augmented by corrugated fiberglass panels on the ceiling. Floors are concrete. Changes to the garage interior are unknown.

Architecture – Ranch house

Ranch house (former office): The Ranch house is so-called because of the style of the building. It also referred to as the Horton building, after its former owner. The one-story building has a rectangular footprint and is composed of very shallow-pitched cross hip and gable roofs with gables facing west and north, towards the freeway. The fascia on the roofs is wide, covering boxed eaves. The west-facing façade contains the main entry to the building; it is oriented toward the interior of the lot and the main driveway into the parcel. The wood-frame building is finished in stucco with stone cladding at the entry and horizontal wood under the gable ends, with a composition shingle roof (formerly with a rock finish) and a concrete slab foundation. Like the garage building, it was constructed in 1962,

Front (west) façade: The front façade displays a shallow projection that contains the main entry and is clad in stone from the building base to the eaves. The eaves are formed by a shallow pent roof under a slightly pitched gable roof. The entry door is in a recessed alcove on the west face. It features an original starburst detail on the door knob. To its left, within the projection, is a four-light window with aluminum frames. At the base of this portion of the building vents are built into the stone cladding. To the left are two, three-part fixed and casement windows with aluminum frames. A low, stone planter fronts this portion of the building.

South façade: The south façade displays four, two-part sliding windows in aluminum frames.
Rear (east) façade: The rear façade displays one, three-part fixed and casement window and two two-part sliding windows, all with aluminum frames. There are two flush doors on this façade.

North façade: The north façade has two, two-part sliding windows with aluminum frames under a gable end.

Interiors: Access was not available to this building, so interior features are unknown.

Site features

The main driveway into the site is located to the west of the Ranch house. The driveway is not differentiated from the rest of the site (including the parcel to the west), which is finished in asphalt and concrete. The large open spaces on the parcel(s) are used for equipment parking, employee parking, and outdoor work space.

Features on the site include two tall signs, one on the freeway, which is composed of a large pylon with the word “Pape” on it, and a pole sign, on the Cedar Blvd. side that spells out “Pape Machinery.” An additional sign on the garage also spells out “Pape Machinery.” Freestanding directional signage is located at the west-southwest corner of the Ranch building.

Additional features include a freestanding concrete ramp on the south side of the yard. Fencing includes a concrete masonry unit wall on the east side of the parcel and chain link fencing with barbed wire on the Cedar Blvd. side of the site and the west side of these two parcels. The site is separated from the freeway with a guard rail and landscaping. There are also storage tanks on the site.

***Resource Name or #** 38600 Cedar Blvd.

***Map Name:** Newark Quadrangle ***Scale:** 1:24,000 ***Date of map:** 2021

Figure 1: Regional location map

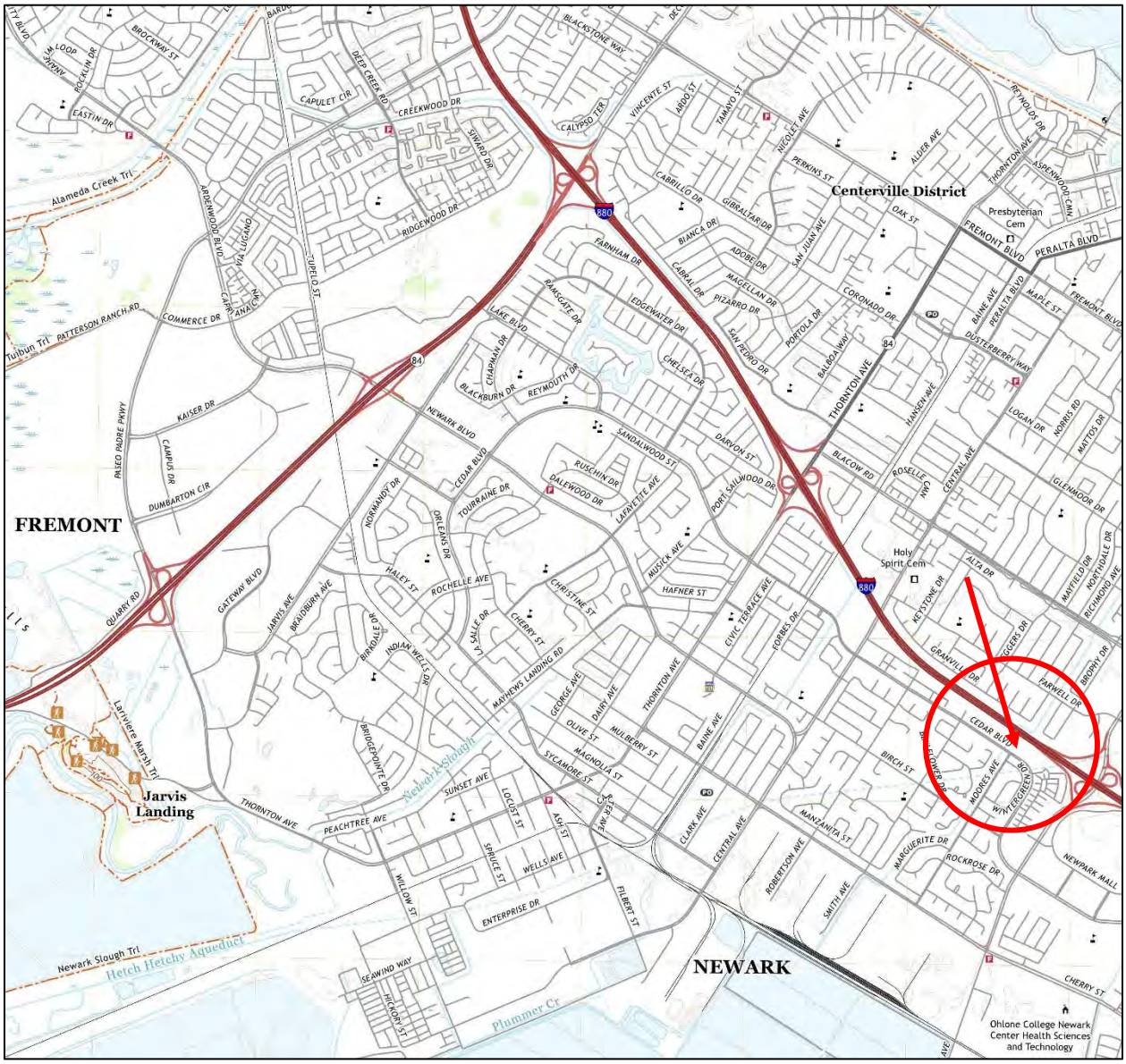
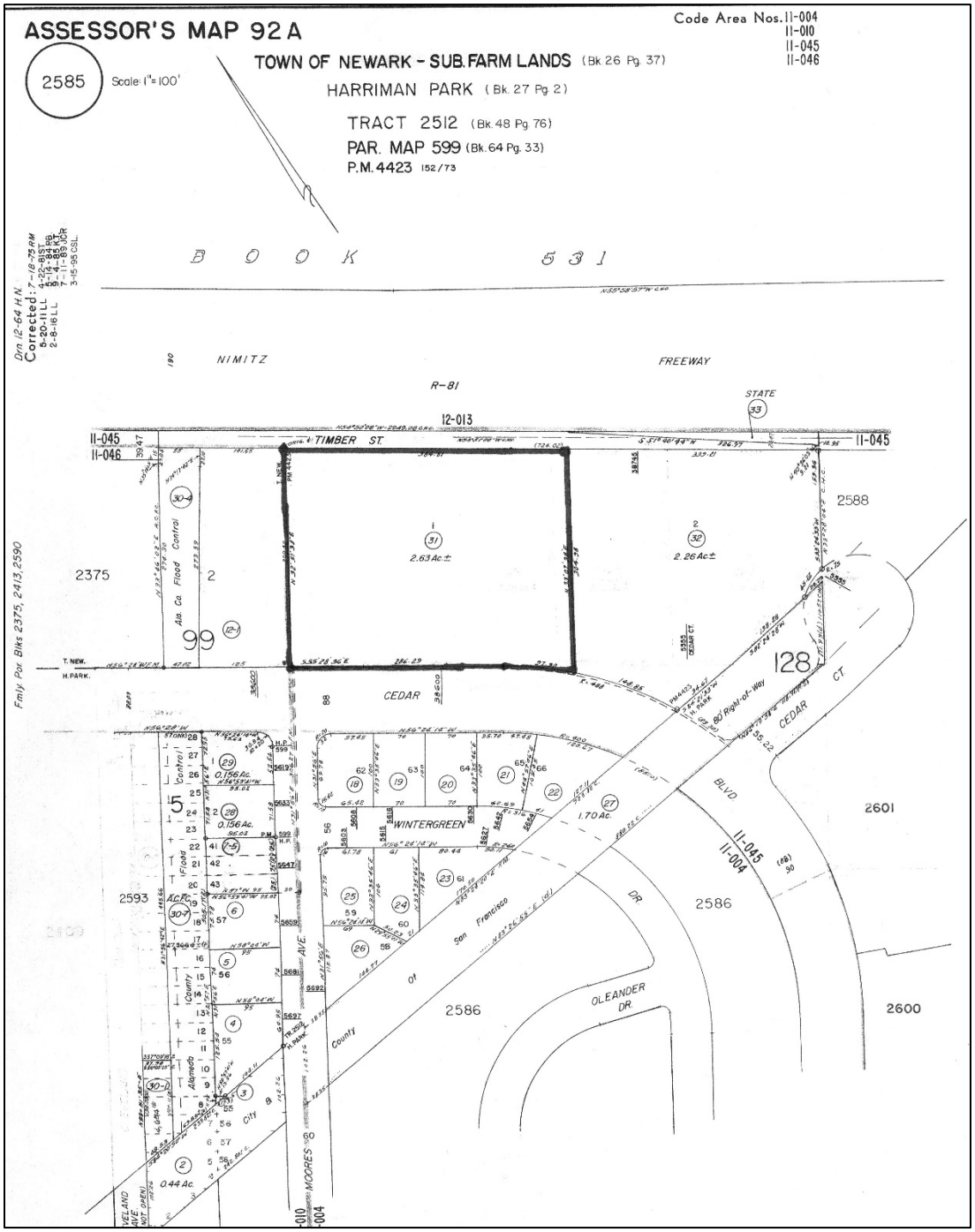


Figure 2: Local location map



Source: City of Fremont

Figure 3: Parcel map for 38600 Cedar Blvd.



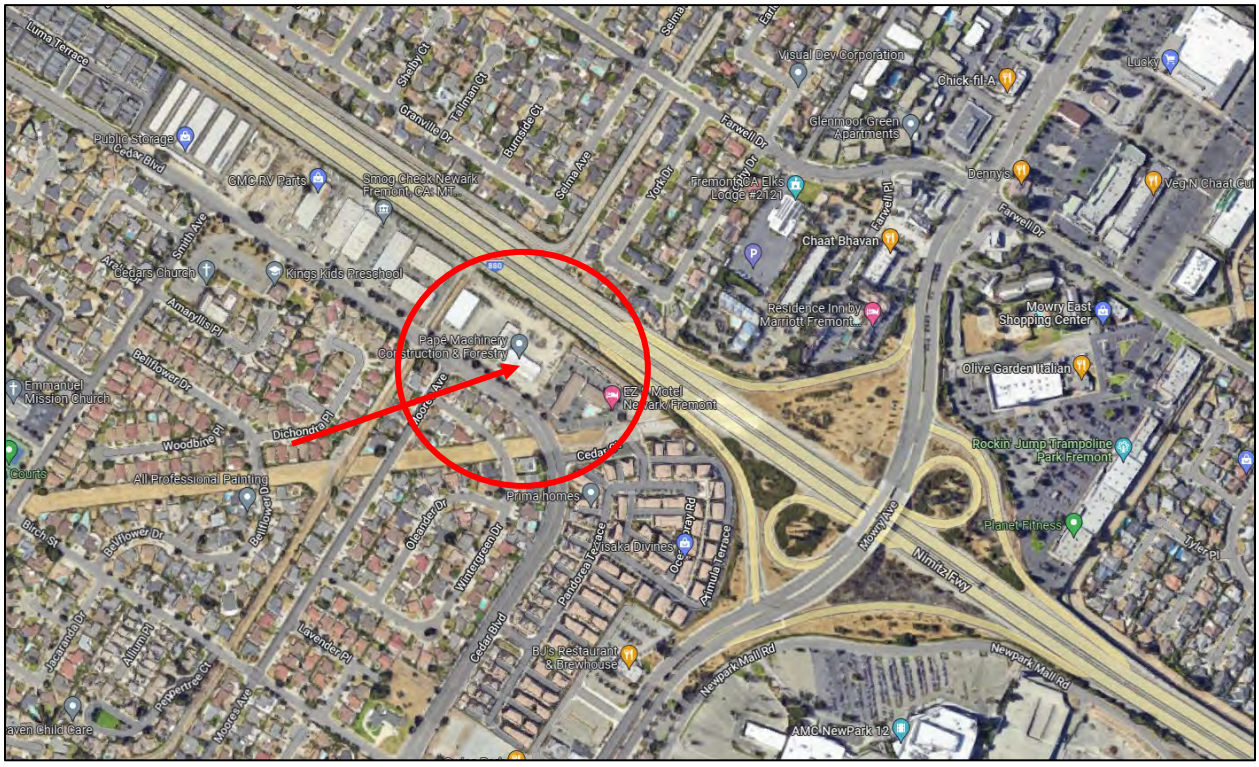
Page 10 **of** 36 ***Resource Name or #** 38600 Cedar Blvd.

***Drawn by:** Google maps ***Date of map:** 2022



Parcel outlined in red

Figure 5: Neighborhood context



Source: Google maps



Photo 1 of 21 – Front façade of garage, looking east; Ranch house to right



Photo 2 of 21 – Main entry to garage, looking east



Photo 3 of 21 – Front (west) façade, looking north



Photo 4 of 21 – North façade of garage, looking east



Photo 5 of 21 – Rear façade of Wing A, looking west



Photo 6 of 21 – North façade of Wing B, looking south



Photo 7 of 21 – East facades of Wings B and C, looking north



Photo 8 of 21 – Wing C, south façade, looking west



Photo 9 of 21 – Main entry lobby

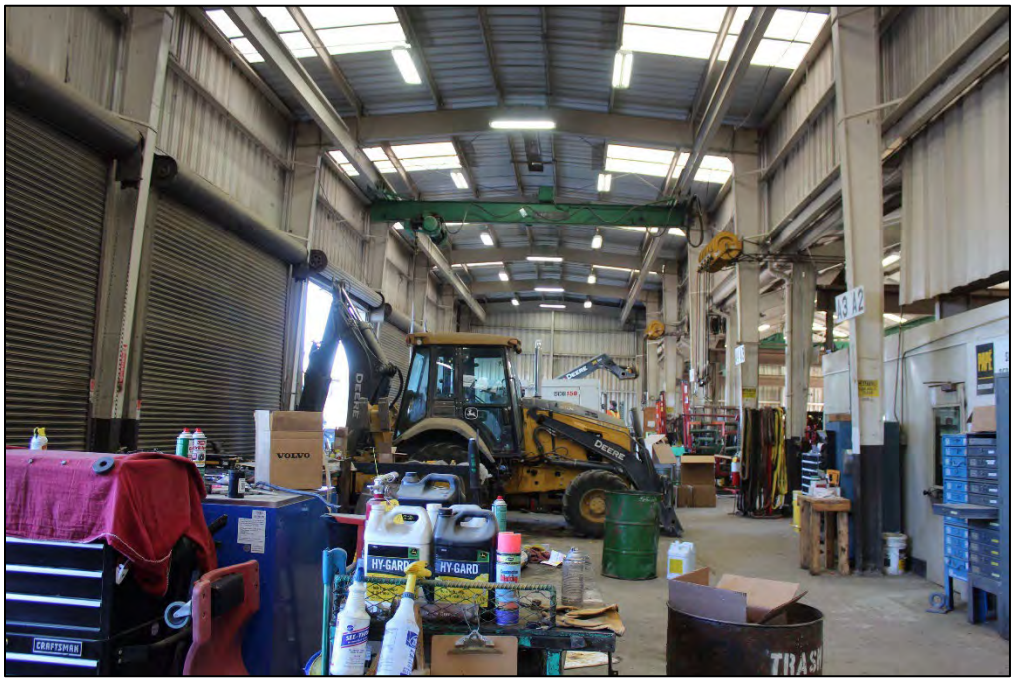


Photo 10 of 21 – Wing B, looking east at travel crane



Photo 11 of 21 – Wing C, looking west, view of offices



Photo 12 of 21 – Ranch house building, north and west facades, looking south



Photo 14 of 21 – Ranch house building, front (west) façade, looking south

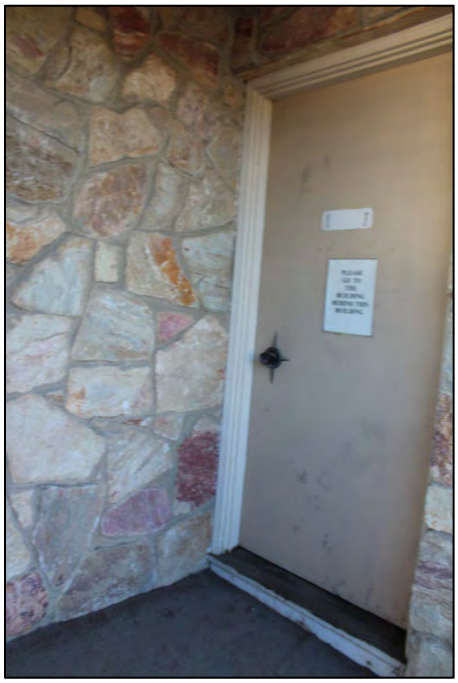


Photo 15 of 21 – Ranch house building, main entry



Photo 16 of 21 – Ranch house building, south and east facades, looking north



Photo 17 of 21 – Main entry, looking toward Cedar Blvd.



Photo 18 of 21 – Tanks and pylon sign, looking toward I-880



Photo 19 of 21 – Looking south toward Moores Avenue



Photo 20 of 21 – Cedar Avenue, looking east; entry to left



Photo 21 of 21 – Cedar Avenue, looking west; entry to right

HISTORIC CONTEXT
Continued from sheet 2

Introduction

Newark is surrounded on three sides by the city of Fremont; the fourth, or south side, is close to abutting San Francisco Bay within the Don Edwards San Francisco Bay National Wildlife Refuge, which is managed by the U.S. Fish & Wildlife Service. The city is bounded on the north-northeast side by Interstate 880 and on the northwest side by Route 84, which continues as the Dumbarton Bridge to Menlo Park in San Mateo County. The southeast side is bounded by Stevenson Blvd. on the northeast side. The city, which was incorporated in 1955, occupies over 13.9 square miles (*Google Maps*).

Newark is within Alameda County, whose county seat is Oakland. It is part of a large swath of suburban development that stretches from Richmond along the east side of San Francisco Bay to as far south as Milpitas. It is within what is called the Tri-Cities area, which includes Union City, Fremont and Newark. Between the bay and the Nimitz Freeway or I-880, much of the development around the bay preserves is composed of commercial and light industrial uses, although the stretch between Cedar Blvd. and I-880 is in the process of being redeveloped for mid-rise housing.

The City of Newark

The following establishes a brief history of the area in which the city of Newark is located today.

The 14th mission in California's mission system, Mission San Jose, was established under Spanish rule in 1797 by Padre Presidente Fermin Francisco de Lasuen. Under the mission system, the Ohlone people of this area were converted to Catholicism and became farmers, herders, laborers, and craftsmen, making Mission San Jose a prosperous center boasting a population high of 1,877 people in 1831 (Kyle 2004:7). After Mexico gained its independence from Spain in 1822, California came under the control of the Mexican government. Historically the area in which Newark is located today was within the three-square-league Rancho Potrero de los Cerritos, a grant made in 1844. Ex-Mission San Jose, a tract of 28.33 acres that was just five miles from what became Newark, was patented in 1858 (Shumway, 2007:14). The missions in California were secularized between 1834 and 1836.

The Rancho era is associated with Mexican rule, when the larger region was used primarily for raising cattle for tallow and hides. The termination of the Mexican-American war in 1848 brought California under American control. It was followed in 1949 by the Gold Rush in California; California became a state in 1850. Settlement by Euro-American settlers in Alameda County and Washington County began in earnest at that time and the area was converted from ranching to farming grain and vegetables. Taking advantage of its location on the water, warehouses, landings and wharfs were built to store and ship farm goods to the rapidly growing San Francisco. Ex-Mission San Jose itself become a commercial center, with occupation of the mission and the buildings around it.

The neighboring counties of Santa Clara County and Contra Cost County formed in 1850 but Alameda County, which was carved out of the other two, was established in 1853 (*County of Alameda, CA,* acgov.org). Newark was part of Washington Township, which was also established in 1853 and was made up of eight small towns located in the southern portion of Alameda County: Alvarado (now Union City), Newark, Niles, Centerville, Irvington, Mission San Jose, and Warm Springs (now Fremont). In 1878 the land upon which Newark and other portions of Washington Township were located was purchased by the Pacific Land Investment Company, which named the area Newark (Addiego, 2015:10).

Newark was originally known for its industry. The marshland on which Newark was founded attracted salt companies, which established their factories near the town's salt resources. Smaller companies eventually consolidated and formed the Arden Salt Company, which later became Leslie Salt Company and is Cargill Salt today. Another company that boosted Newark's industrial presence was the Graham

Figure 6: Alameda County and Washington Township in 1878



Manufacturing Company, a metalworks. Newark was also known for a foundry that later manufactured Wedgewood stoves (Holmes, "A Brief History of Washington Township").

Newark was well served by railroads. The South Pacific Coast Railroad, incorporated in 1876 with headquarters in Newark, would eventually extend from Santa Cruz to the town of Alameda, with a ferry connection via the *Newark* to San Francisco. The railroad had a station, roundhouse and railroad shop near the center of Newark in the area between Thornton Avenue, Sycamore Street, and Carter Avenue (City of Newark , http://newark.org/visitors/about-newark-history). The Carter Railroad also served Newark, where they had a manufacturing facility.

The Dumbarton Bridge attracted new settlers to Newark and Fremont from San Mateo County. The Dumbarton Bridge was the first vehicular bridge to cross San Francisco Bay. It was originally constructed in 1927; a new bridge replaced it in 1982. Previously the Dumbarton Rail Bridge was constructed just south of today's vehicular bridge in 1910. It has not been in use since 1981 (Addiego, 2015:9.)

A 1939 aerial photograph shows that for the most part Newark still retained extensive farmlands and orchards at that time, in addition to its industrial uses. Grain farmlands had shifted to orchards and diverse agriculture, including tomatoes, in the early 20th century. The canning industry grew as well, which

had been facilitated by the coming of the railroads to Washington Township in 1869. Poultry farms and the dairy industry also became a presence.

The vineyards were wiped out by disease about 1900, followed by the Prohibition. There was a further impact to agriculture when the water table dropped and it became necessary to irrigate crops (Holmes, “A

Figure 7: Portion of Newark in 1939, showing subject site in red



Source: UCSB Library Geospatial Collection

Brief History of Washington County"). Nonetheless, the Great Depression brought new residents to the area to work in the factories, and residential areas were developed on orchard lands (TreanorHL, 2022:8).

Author Phil Holmes describes the impact that World War II had on Newark and the surrounding area:

> *Pearl Harbor changed everything for everybody. Many young men and women scattered around the world to fight the war. People of all ages worked in defense industries or on the farms. Life in Washington Township was filled with blackouts, Red Cross and defense programs, bond and scrap drives, price ceilings, restrictions, shortages, rationing, air raid signals, enlistments, draft calls, separations, and sad telegrams . . . All development that was not part of the war effort was postponed (Holmes, "A Brief History of Washington County").*

The Japanese of Newark and the surrounding areas were evacuated during World War II and held in internment camps, as Washington Township was within the 100-mile evacuation zone in which it was felt that both Japanese and Japanese-Americans were a threat to national security. This affected approximately 550 people in Washington County, many of whom worked in the saltworks or were farmers, in 1942, when Executive Order 9066 was issued by President Theodore Roosevelt (Helfman, 1994).

In the post-World War II era Washington Township grew to a population of about 25,000 people, governed by Alameda County. Construction began on the Nimitz Freeway in 1947, which replaced SR 17 through the East Bay. It was completed in 1857, extending almost the entire length of the east shore of San Francisco Bay. This kicked off a period of urbanization, replacing the prominence of agriculture in Washington County. An often-repeated story is about Newark's drive to become an independent city, rather than part of what became Fremont, which incorporated Niles, Ex-Mission San Jose, Centerville, Irvington, and Warm Springs into the new city in 1956. Incorporation of Newark occurred in 1955, when it was still a very small town. Among the issues that concerned the community was that it did not want to be relegated to being a center for industry and affordable housing and, because it was on low-lying land, flood control (Addiego, 2015:26).

A 1965 aerial photograph shows the city still under development on the southwest side of the I-880, while its neighbor Fremont on the northeast side of the Nimitz Freeway was densely developed with single family residential development at this time (UCSB Library Geospatial Collection). The population of Washington Township as a whole grew from about 20,000 in 1950 to 100,000 in 1970 (Washington Township Museum of Local History). The Newark City Hall was built in 1966 and the city continued to attract residential growth in the 1960s and 1970s. Technology companies are also part of the city's employment base today, including Sun Microsystems (now known as the Pacific Research Center) and Logitech (Addiego, 2015:8). Today the population of Newark is 47,529 people.

Figure 8: Portion of Newark in 1965, showing subject site in red



Source: UCSB Library Geospatial Collection

THE BUSINESSES

International Harvester

The site at 38600 Cedar Blvd. was an International Harvester dealer since 1963 that dealt in construction equipment sales and service, parts support, and rentals. Ads from the early 1970s show that they also handled International Harvester Scouts and Travelalls (like Sports Utility Vehicles), pickups, and dump trucks. John R. Horton managed the business in its early years. He bought the company, which was called the International Construction Equipment Sales and Service branch, in 1975 and renamed it Horton Equipment, Inc. ("IH Branch Sold To Ex-Manager," June 25, 1975:46). At the time he purchased the business, it had about 35 employees.

Figure 9: Advertisement for International Harvester at the site from 1973



Source: The Argus Sun, November 4, 1973

Horton Equipment and Empire Tractor

Horton opened a second facility in Reno, Nevada in 1980, prompted by the growth in construction and mining there. In 1981 Horton changed the name of the business to Empire Tractor and Equipment Company. A fictitious business statement showed that he had three additional partners at that time, one in Castro Valley and two in Louisiana, under a general partnership. Empire Tractor was sold by Horton to Pape Machinery in 1983-84. At the time his business handled Michigan and Hough loaders, neither of which are manufactured today, according to the utilities manager Manny Quintalla at Pape Machinery (personal communication, November 3, 2022).

Pape Machinery Construction & Forestry

Pape Machinery moved to 38600 Cedar Blvd. in 1983-84 from their previous site on Meekland Avenue in Hayward. The Pape Group, whose formal name is Pape Machinery Construction & Forestry, was formed in 1938 by E.C. Pape in the Willamette Valley when he bought Slate Tractor, an Allis-Chalmers dealer. When E.C. Pape died in 1945, his wife Hazel took over the business until his two sons Dean and Ed returned from service in World War II and took over the company. In 1952 they had stores in Roseburg and Coos Bay and renamed the company Pape Bros Inc. In 1956 they bought a Caterpillar dealership. In the 1960s and 1970s the company continued to expand, buying additional businesses and specializing in service to the timber and agricultural industries.

In 1981 Randy Pape, representing the third generation of the family, took over as president of the business. In 1986 they bought Flightcraft and became a Beechcraft airplane dealer. In 1990 they renamed the company The Pape Group and acquired Hyster Forklift. In the 1990s they would expand to include divisions in northern California, as well as Washington and Oregon. In the 2000s they became Pape Machinery. They also acquired their first Kenworth dealership. The company has continued to expand, acquiring companies and capabilities and today have six divisions. The company has branches throughout the west, including Alaska and Hawaii, in more than 140 locations and is managed by the fourth generation of the family. The various companies under the umbrella of the Pape Group specialize in construction, logging, material handling, landscaping, trenching, farm equipment, semi-trucks and warehouses. While they sell and service a number of equipment lines, they specialize in John Deere (https://www.papemachinery.com/).

Figure 10: Advertisement for Horton Equipment from 1980



Source: The Reno Gazette Journal, March 17, 1980

ARCHITECTURAL CONTEXT

Corrugated metal buildings

Corrugated metal buildings have a long history in California. Prefabricated buildings, including metal-clad buildings, were shipped to California as early as the early nineteenth century (adapted from Painter, 2004). The Gold Rush created a huge demand for prefabricated buildings. Corrugated iron structures were prefabricated in Europe – including England, Belgium and France - and Asia and shipped to San Francisco to serve a variety of purposes in the booming community. In San Francisco, even the 1849 Trinity Episcopal Church and the 1852 Methodist-Episcopal Church were clad in corrugated iron (Kirker, 1986:Plate 16).

E. T. Bellhouse of Manchester and John Walker of London represented two of the English companies that supplied corrugated iron buildings to San Francisco. In 1849 it was estimated that there were forty imported sheet-metal buildings in the San Francisco Bay Area from England and seventy-five from Canton (Kirker, 1986:38). Initially, it was thought that the iron-clad buildings would be fireproof. This was proven a false assumption, as noted below:

> *. . . . British speculators who created them thought that such shelters were the perfect solution for an incendiary Gold-Rush town. They were wrong. During the fire of May 1850, the owner of one of the buildings took refuge with some friends in his iron warehouse. The poor, doomed souls discovered that the increasing heat had stuck the iron doors together, and the 'fire-proof' building melted like chocolate around them (Alexander, 2002:30).*

Once local sawmills and planing mills were developed in the Bay Area the need to import prefabricated buildings was reduced. By the end of the 1860s, it was estimated that 90 percent of the buildings in San Francisco and almost all buildings in rural areas were wood-frame construction, much of it redwood (Kirker, 1986:59). One of the earliest planing mills in the Bay Area was constructed in Corte Madera in 1851, although California's first steam-powered sawmill was constructed by John Cooper near the Russian River in 1834, and John Reed's water-powered sawmill was established in Mill Valley in 1836 (Alexander, 2002:30).

In general, both corrugated iron and steel became increasingly popular for agricultural, light industrial and warehouse buildings in the twentieth century (Kidder, 1921). The *Architects & Builders Handbook* of 1921 noted that iron and galvanized steel were both used extensively in building. Builders and suppliers, plan books, and organizations such as the United States Department of Agriculture and University of California Experimental Station promoted the use of corrugated metal. Through the 1930s and 1940s however, both wood (usually board-and-batten) and metal cladding continued to be used.

Corrugated metal rather than wood became the favored material for industrial buildings because the buildings were expedient, flexible and practical. There was no illusion that they were fireproof by this time. In World War II great advances were made in the fabrication and use of manufactured buildings and corrugated metal buildings in particular. The most widely-known corrugated metal building developed during World War II was the Quonset hut. It is estimated that 170,000 of these structures were constructed for the war effort by 1946, and many of them returned to the United States afterward, to be re-used for a variety of purposes (Upton, 1998:155). By the 1960s and 1970s, corrugated metal was used exclusively for agricultural, light industrial and warehouse buildings, although the design characteristics of the sheathing have changed over time. This is consistent with the garage and warehouse at 38600 Cedar Blvd., as well as other light industrial buildings in the area (Painter, 2004:1).

The Ranch House

The Ranch house that is on the grounds of the property at 38600 Cedar Blvd. is so-called because it is in the Ranch house style, although it housed an office for Horton Equipment (later Empire Tractor) when it was actively used. Architectural historian Alan Hess defines the character-defining features of the Ranch house in general as follows. It is a one-story house with a low-pitched, gabled or hipped roof, with wide eaves (this building has both hipped and gabled roofs); of general asymmetry with a horizontal emphasis; an open-interior plan blending functional spaces; strong connections to the outside; with informal or rustic materials or details (Hess, 2006:17).

A Ranch house may also have a long shallow at-grade entry porch, redolent of the *corredor* of the traditional Ranch home which inspired it (Hess, 2007:17). In place of this design feature, the building at 38600 Cedar Blvd. has incorporated a long, low planter on the front façade that carries the horizontal line of the building and connection to the outdoors. The deep eaves of the building with the pronounced fascia and horizontal orientation of the windows also reinforces the horizontal lines of the building.

Ranch houses are regarded as emerging from a design aesthetic pioneered in California and the west, inspired by traditional vernacular structures and the design influences of the Bay Area Regional Style architects. Ranch houses became the house style of choice in the post-World War II building boom, and proliferated throughout the United States. Their ubiquity was in part due to the standardized and streamlined building methods that were developed at the same time that the house style was popularized. These methods were developed in the course of providing defense housing and mobilizing for the war, and refined after the war as merchant builders built entire neighborhoods and communities to meet the pent-up housing demand after the war (Painter, 2007:Section 7, Page 8).

Ranch houses can be Contemporary Ranch houses, Rustic Ranch houses, or Character Ranch houses that adopt stylistic characteristics of other styles, such as Spanish Colonial Revival. This building is most closely characterized as a Rustic Ranch due to its use of fieldstone cladding in neutral tones in a mosaic pattern. While the Ranch house at 38600 Cedar Blvd. is not a residence, it may have been built here to blend in with the mid-century residential neighborhoods that were developing around it. This is repeated in the office building at 38370 Cedar Blvd. within the industrial complex to the northwest of this site (TreanorHL, 2002).

REGULATORY CONTEXT AND EVALUATION

The National Register of Historic Places and California Register of Historical Resources

The following is an evaluation of the historic significance of the garage and former office at 38600 Cedar Blvd., with respect to the National Register of Historic Places Criteria for Evaluation for listing in the National Register and the California Register of Historical Resources Eligibility Criteria for listing on the California Register. A resource must meet one or more of the following criteria to be considered a historic resource for purposes of CEQA. It must also be over 50 years of age and retain integrity. Built in 1962, both resources at 38600 Cedar Blvd. are over 50 years of age.

Criteria A & 1:

A: Properties that are associated with events that have made a significant contribution to the broad patterns of our history;

1: It is associated with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States;

The garage and former office at 38600 Cedar Blvd. have been associated with Newark's industrial history since their construction in 1962. Throughout the history of the buildings they have serviced, sold, rented, and handled parts for heavy construction equipment. The names of the companies that have operated out of the buildings include International Harvester, Horton Equipment, later re-named Empire Tractor, and Pape Machinery at present, that handles John Deere equipment, among others. While significant companies, research did not reveal that any were strongly associated with Newark's history or were foundational industries in Newark. With the exception of Horton Equipment, they are national chains with many dealers at the state and national level. The buildings are not significant for their association with patterns of national, state or local history in Newark. The buildings are not significant under Criteria A/1.

Criteria B & 2:

B. Properties that are associated with the lives of persons significant in our past;

2. It is associated with the lives of persons important to local, California, or national history;

Research revealed only one individual directly associated with the buildings at 38600 Cedar Blvd., which was John R. Horton. While clearly a successful businessman, research did not confirm that he was important to local, California or national history. The buildings are not significant under Criteria B/2.

Criteria C & 3:

C. Properties that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

3. It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of a master, or possesses high artistic values;

The two buildings at 38600 Cedar Blvd. are both very typical buildings and do not represent the distinctive characteristics of a type, period or method of construction. The garage is a steel-frame building with corrugated steel cladding, which is a very common building type for light industrial uses. The office building, which is in the Ranch house style, is also a very common style and is seen throughout the county, state and city. While less commonly used for an office (although there is another Ranch building used as an office to the northwest) a Ranch house style building must be outstanding in design and integrity to meet this criteria. The buildings also do not represent the work of a master or have high artistic value. The buildings are not significant under Criteria C/3.

Criteria D & 4:

D. Properties that have yielded, or may be likely to yield, information important in prehistory or history.

4. It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

This criteria typically applies to archaeological sites or sites important for their information potential. This criteria is not applicable to this property.

City of Newark Municipal Code

The City of Newark Municipal Code has a number of guidelines for evaluating and designating historical resources in Chapter 17.20 - Historical Resources of their municipal code

Historical resources shall meet one or more of the following criteria:

A. Historical and cultural considerations:

1. One associated with the life or activities of a person significant in the development of institutions, activities or industries of Newark or Washington Township;

The property is not associated with any person significant in the development of institutions, activities or industries of Newark or Washington Township.

2. One associated with a major group or organization in the history of Newark or Washington Township;

The property is not associated with any major groups or organizations in the history of Newark or Washington Township.

3. One associated with a significant historic event of Newark or Washington Township;

The property is not associated with a significant historic event in Newark or Washington Township.

4. One associated with a major recurring event in the history of Newark or Washington Township such as an annual celebration;

The property is not associated with any major recurring events in the history of Newark or Washington Township.

5. One associated with a past or continuing institution which has contributed substantially to the life of the city;

The property is not associated with any past or continuing institutions that have contributed substantially to the life of the city.

B. Architectural and aesthetic considerations:

1. One of the few of its decade remaining in the city (one of six) and is unique or one of a few remaining examples in the city of a particular architectural style or period;

Constructed in 1962, the utilitarian garage and Ranch house style building are commonly found in Newark and Washington Township. They are not unique.

2. The work of a regionally or nationally famous architect;

Not applicable. No architect was identified for the building.

3. An architectural curiosity or picturesque work of particular artistic merit;

The buildings are very ordinary buildings. They do not represent an architectural curiosity or a picturesque work. Of particular artistic merit.

4. Contains original materials and/or workmanship of merit. Has architectural, structural, or artistic merit. An important or scarce example associated with the architectural and aesthetic character of Newark or of an architecturally and aesthetically distinct or unique neighborhood;

The buildings are not constructed of unique materials or workmanship of merit. They are not important or scarce examples of the architectural or aesthetic character of Newark or in this neighborhood.

In summary, the buildings do not meet any of the provisions provided by the City of Newark to identify and designate local historic resources.

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APPENDIX C-1

38600 CEDAR BOULEVARD
NEWARK, CALIFORNIA

GEOTECHNICAL EXPLORATION

SUBMITTED TO
Mr. Caden Proctor
Waymark Development
2801 West Coast Highway, Suite 270
Newport Beach, CA 92663

PREPARED BY
ENGEO Incorporated

January 31, 2023

PROJECT NO.
15799.004.000

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ENGEO
Expect Excellence

Project No.
15799.004.000

January 31, 2023

Mr. Caden Proctor
Waymark Development
2801 West Coast Highway, Suite 270
Newport Beach, CA 92663

Subject: 38600 Cedar Boulevard
Newark, California

GEOTECHNICAL EXPLORATION

Dear Mr. Proctor:

We prepared this geotechnical report for Waymark Development as outlined in our agreement dated August 12, 2022. We characterized the subsurface conditions at the site to provide the enclosed geotechnical recommendations for design.

From a geotechnical engineering viewpoint, in our opinion, the site is suitable for the proposed residential development, provided the geotechnical recommendations in this report are properly incorporated into the design plans and specifications. The primary geotechnical concerns that could affect development on the site are slope stability, existing fill, groundwater, expansive soil, and liquefaction potential of the site soil.

If you have any questions or comments regarding this report, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated

Jerry Chen



Macy Tong, GE

jc/mt/ar

TABLE OF CONTENTS

LETTER OF TRANSMITTAL

1.0 INTRODUCTION 1

1.1 PURPOSE AND SCOPE 1
1.2 PROJECT LOCATION 1
1.3 PROJECT DESCRIPTION 1

2.0 FINDINGS 2

2.1 SITE HISTORY 2
2.2 GEOLOGY AND SEISMICITY 2

2.2.1 Geology 2
2.2.2 Seismicity 2

2.3 PREVIOUS FIELD EXPLORATION 3
2.4 FIELD EXPLORATION 3

2.4.1 Borings 3
2.4.2 Test Pits 4
2.4.3 Cone Penetration Tests 4

2.5 SURFACE CONDITIONS 4
2.6 SUBSURFACE CONDITIONS 5
2.7 GROUNDWATER CONDITIONS 5
2.8 LABORATORY TESTING 6

3.0 CONCLUSIONS 6

3.1 EXISTING FILL 6
3.2 EXPANSIVE SOIL 6
3.3 SEISMIC HAZARDS 7

3.3.1 Ground Rupture 7
3.3.2 Ground Shaking 7
3.3.3 Liquefaction 8
3.3.4 Lateral Spreading 9
3.3.5 Ground Lurching 9
3.3.6 Flooding 9

3.4 COMPRESSIBLE SOIL 9
3.5 SLOPE STABILITY ANALYSES 10
3.6 SOIL CORROSION POTENTIAL 11
3.7 2022 CALIFORNIA BUILDING CODE (CBC) SEISMIC DESIGN PARAMETERS 12

4.0 CONSTRUCTION MONITORING 13

5.0 EARTHWORK RECOMMENDATIONS 13

5.1 GENERAL SITE CLEARING 13
5.2 EXISTING NON-ENGINEERED FILL REMOVAL 14
5.3 FOUNDATION SUBGRADE REINFORCEMENT 14
5.4 OVER-OPTIMUM SOIL MOISTURE CONDITIONS 14
5.5 ACCEPTABLE FILL 15
5.6 REUSE OF ON-SITE RECYCLED MATERIALS 15
5.7 FILL COMPACTION 15

5.7.1 Underground Utility Backfill 16

TABLE OF CONTENTS (Continued)

5.7.1.1 General 16
5.7.2 Landscape Fill 16
5.8 SITE DRAINAGE 16
5.8.1 Surface Drainage 16
5.8.2 Subsurface Drainage 16
5.9 STORMWATER BIORETENTION AREAS 17
5.10 LANDSCAPING CONSIDERATION 18
6.0 FOUNDATION RECOMMENDATIONS 18
6.1 POST-TENSIONED MAT FOUNDATIONS 18
6.1.1 Slab Moisture Vapor Reduction 19
6.2 EXTERIOR FLATWORK 19
7.0 PRELIMINARY PAVEMENT DESIGN 20
7.1 FLEXIBLE PAVEMENT 20
7.2 RIGID PAVEMENT 20
7.3 SUBGRADE AND AGGREGATE BASE COMPACTION 20
7.4 CUTOFF CURBS 21
7.5 RESIDENTIAL DRIVEWAYS/GARAGE SLABS 21
8.0 LIMITATIONS AND UNIFORMITY OF CONDITIONS 21
SELECTED REFERENCES
FIGURES
APPENDIX A – Exploration Logs
APPENDIX B – Laboratory Test Data
APPENDIX C – Liquefaction Analyses
APPENDIX D – Slope Stability Analyses

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

We prepared this geotechnical exploration report for the multi-family residential development at 38600 Cedar Boulevard in Newark, California. We prepared this report as outlined in our proposal revised July 27, 2022. Waymark Development authorized us to conduct the following scope of services.

- Review of existing published documents
- Subsurface field exploration
- Data analysis and conclusions
- Report preparation

This report was prepared for the exclusive use of Waymark Development and their consultants for design of this project. In the event that any changes are made in the character, design or layout of the development, we must be contacted to review the conclusions and recommendations contained in this report to evaluate whether modifications are recommended. This document may not be reproduced in whole or in part by any means whatsoever, nor may it be quoted or excerpted without our express written consent.

1.2 PROJECT LOCATION

The subject site is located in Newark, California and is bounded by the Interstate 880 (Nimitz Freeway) to the northeast, Cedar Boulevard to the southeast, and commercial/industrial developments to the northwest and southeast as shown on Figure 1, the Vicinity Map. The 3.5-acre site consists of two parcels with Assessor's Parcel Numbers (APNs) 92A-2585-12-1 and 92A-2585-31, and is currently occupied by a construction and forestry equipment rental company. Current improvements include three separate single-story structures and pavements that are being used for machinery storage. Figure 2 shows site boundaries, proposed building and pavement areas, and our exploratory locations. An Alameda County drainage channel is located along the western property line of the project site.

1.3 PROJECT DESCRIPTION

Based on the preliminary site plan provided by William Hezmalhalch Architects, Inc. (WHA) dated October 25, 2022, we understand that the new development of the project will consist of the following.

1. Fourteen (14) wood-frame townhome structures with up to three stories in height and contain 76 residential units.
2. Paved streets, parking, and drive lanes.
3. Underground utilities and other infrastructure improvements.
4. Concrete flatwork.

Our report will provide recommendations relating to the above-stated items.

2.0 FINDINGS

2.1 SITE HISTORY

Based on the 1939 aerial photograph, the subject site was originally an agricultural land. Review of historical records indicate that the project site was used for dry farming until the early 1960s. The two existing structures, a warehouse and an office, at the eastern portion of the site were observed in the 1965 aerial photograph. The warehouse near the northwestern property line was shown in the 1979 photograph.

In addition, as shown on a historical topography map (Figure 4) dated 1947 (USGS), a creek, approximately 6 feet deep, was located within the western portion of the project site and ran in a northeast to southwest direction. According to a topography map dated 1959 (USGS), the creek was no longer shown but a creek channel was depicted along the western property line of the site.

2.2 GEOLOGY AND SEISMICITY

2.2.1 Geology

As depicted in Figure 5, regional geologic mapping by Graymer et al. (2006) characterizes the site as underlain by undivided, Pleistocene-age alluvial deposits (Qpa). These deposits are characterized by sand, silt, and gravel deposited in fan, valley fill, terrace or basin environments.

Based on the historical topography maps and aerial photographs, the drainage creek once located along the western portion of the site as shown on Figure 3 was backfilled to create a relatively level area. The fill material within the former drainage course is estimated to be approximately 6 feet thick. The approximately extents and thicknesses of the fill material (Qaf) are estimated based on our field exploration and are shown on Figure 3.

2.2.2 Seismicity

The San Francisco Bay area contains numerous active earthquake faults. Nearby active faults include the (mention the distances to the two closest active faults as a minimum and distances to other major active faults if desired according to the table below). An active fault is defined by the California Geologic Survey as one that has had surface displacement within Holocene time (about the last 11,000 years) (Bryant and Hart, 2007).

The site is not located within a currently designated Alquist-Priolo Earthquake Fault Zone and no known surface expression of active faults is believed to exist within the site. Fault rupture through the site; therefore, is not anticipated.

Numerous small earthquakes occur every year in the San Francisco Bay Region, and larger earthquakes have been recorded and can be expected to occur in the future. Figure 6 shows the approximate locations of these faults and significant historic earthquakes recorded within the San Francisco Bay Region. The Uniform California Earthquake Rupture Forecast (UCERF3) (Field et al., 2015) estimates the 30-year probability for a magnitude 6.7 or greater earthquake in the San Francisco region at approximately 72 percent, considering the known active seismic sources in the region.

To determine nearby active faults that are capable of generating strong seismic ground shaking at the site, we utilized the USGS Unified Hazard Tool* and deaggregated the hazard at a spectral period of 0.3 second for a 2475-year return period, with the resulting faults listed below in Table 2.2.2-1.

TABLE 2.2.2-1: Active Faults Capable of Producing Significant Ground Shaking at the Site (Latitude: 37.5321 **Longitude:** -122.0081**)**

SOURCE	R_{RUP}		MOMENT MAGNITUDE M_W
	(KM)	(miles)	
Hayward (So) [3]	5.93	3.68	6.94
Calaveras (No) [5]	13.16	8.18	7.17
Mission (connected) [4]	6.53	4.06	6.82
San Andreas (Peninsula) [5]	25.57	15.89	7.95
Hayward (So) [2]	6.31	3.92	6.64

*USGS Unified Hazard Tool - Edition: Dynamic Conterminous U.S. 2014 (update) (v4.2.0)

2.3 PREVIOUS FIELD EXPLORATION

In 2020, we conducted a preliminary geotechnical exploration by advancing five cone penetration test (CPT) soundings, 1-CPT1 through 1-CPT5 (ENGEO, 2020). The exploration concluded primary concerns at the site included seismically induced settlement and slope stability.

2.4 FIELD EXPLORATION

Our field exploration included drilling three borings (Borings 2-B1 through 2-B3), excavating six test pits (Test Pits 2-TP1 through 2-TP6), and advancing seven cone penetration test (CPT) soundings (3-CPT1 through 3-CPT7) at various locations throughout the site. We performed our field exploration on between August 22 and October 18, 2022.

The location and elevations of our explorations are approximate and were estimated by pacing from features shown on handheld global positioning system (GPS) devices; they should be considered accurate only to the degree implied by the method used.

2.4.1 Borings

We observed the drilling of three borings on August 22 and August 23, 2022, at the locations shown on the Site Plan, Figure 2. An ENGEO representative observed the drilling and logged the subsurface conditions at each location. We retained a truck-mounted drill rig and crew to advance the borings using 4-inch-diameter solid-flight augers and using mud rotary method in depth. The borings were advanced to depths ranging from 26½ to 115 feet below existing grade. We permitted and backfilled the borings in accordance with the requirements of Alameda County Water District

We obtained bulk soil samples from drill cuttings and retrieved both disturbed and relatively undisturbed soil samples at various intervals in the borings using a 3-inch outside diameter (O.D.) split-spoon sampler and a 2½-inch O.D. split-spoon sampler.

The standard penetration resistance blow counts were obtained by dropping a 140-pound hammer through a 30-inch free fall. The split-spoon sampler was driven 18 inches and the number of blows was recorded for each 6 inches of penetration. In addition, 2.5-inch inside diameter (I.D.) samples were obtained using a Modified California Sampler driven into the soil with the 140-pound hammer previously described. Unless otherwise indicated, the blows per foot recorded on the boring log represent the accumulated number of blows to drive the last 1 foot of penetration; the blow counts have not been converted using any correction factors. When sampler driving was difficult, penetration was recorded only as inches penetrated for 50 hammer blows.

The logs depict subsurface conditions at the exploration locations during the exploration; however, subsurface conditions may vary with time. The exploration logs are included in Appendix A.

2.4.2 Test Pits

We observed excavation of six test pits on September 8, 2022, at the locations shown on the Site Plan, Figure 2. An ENGEO representative observed the test pit excavation and logged the subsurface conditions at each location. We retained a rubber-tire backhoe to excavate the test pits using a 2-foot-wide bucket and logged the type, location, and uniformity of the underlying soil/rock. The maximum depth penetrated by the test pits was 11½ feet below existing grades.

We obtained bulk soil samples from the test pits using hand sampling techniques. The test pit logs present descriptions and graphically depict the subsurface conditions encountered.

All test pits were backfilled with minimum compaction effort at the completion of the field exploration. As a result, the test pit backfill should be removed and recompacted during site grading.

The logs depict subsurface conditions at the exploration locations during the exploration; however, subsurface conditions may vary with time. The exploration logs are included in Appendix A.

2.4.3 Cone Penetration Tests

We retained a CPT rig to perform seven soundings on October 18, 2022, to a maximum depth of about 50 feet at the locations as shown on the Site Plan, Figure 2. The CPT has a 20-ton compression-type cone with a 15-square-centimeter (cm^2) base area, an apex angle of 60 degrees, and a friction sleeve with a surface area of 225 cm^2. The cone, connected with a series of rods, is pushed into the ground at a constant rate. Cone readings are taken at approximately 5-cm intervals with a penetration rate of 2 cm per second in accordance with ASTM D-5778. Measurements include the tip resistance to penetration of the cone (Qc), the resistance of the surface sleeve (Fs), and pore pressure (U) (Robertson and Campanella, 1988). CPT logs are presented in Appendix A.

2.5 SURFACE CONDITIONS

The site is relatively flat to slightly sloping ranging from Elevation 31 feet in the southwestern portion of the site to Elevation 34 feet in the northeastern portion of the site (WGS84). As stated previously, the site is currently occupied by three single-story structures and paved areas, which are used for parking and storage of machinery. A 10-foot-high open channel within the Alameda County Flood Control District easement is located along the northwestern portion of the site.

2.6 SUBSURFACE CONDITIONS

In our explorations, we encountered fill material consisting of lean clay to sandy lean clay within the upper 2 to 8 feet below grade. In general, the native soil below the existing fill consists of interbedded layers of medium stiff lean clay and sandy silt, and sand to clayey sand down to a depth of approximately 50 feet below ground surface (bgs). These layers vary across the site and range from approximately 5 to 15 feet thick, with the sand layers generally being thickest at the eastern and western ends of the site and become thinner or diminished at the middle of the site. We encountered very dense sand and gravel at between approximately 50 to 105 feet bgs. The granular deposit was underlain by lean clay with sand down to maximum exploration depth of 115 feet bgs.

The southeastern corner of the site is generally underlain by a thick, loose to medium dense sand layer from below the existing fill to a maximum depth of approximately 35 feet bgs. The approximate lateral extent of this thick sand layer is shown on Figure 2.

Based on the laboratory test results, the near-surface soil has a plasticity index (PI) of 18 and 20, which is an indication that the site soil has a moderate to high expansion potential.

2.7 GROUNDWATER CONDITIONS

Static groundwater is found in our previous and current subsurface explorations. We summarize our findings in the table below.

TABLE 2.7-1: Groundwater Level

EXPLORATION LOCATION (date of exploration)	APPROX. DEPTH TO GROUNDWATER (feet)
1-CPT1 (8/4/2020)	5.2
1-CPT2 (8/4/2020)	12.0
1-SCPT3 (8/4/2020)	11.2
1-CPT4 (8/4/2020)	13.0
1-CPT5 (8/4/2020)	13.3
2-B1 (8/23/2022)	16.0
3-CPT1 (10/18/2022)	12.6
3-CPT2 (10/18/2022)	11.5
3-CPT3 (10/18/2022)	15.1
3-CPT5 (10/18/2022)	14.9
3-CPT6 (10/18/2022)	14.4
3-CPT7 (10/18/2022)	13.8

As required, these exploratory probes were backfilled with approved material from Alameda County Water District on the day of drilling. Some of the field exploration points may not have been left open a sufficient amount of time to allow water levels to stabilize. The groundwater reported for cone penetration test probes is estimated using pore pressure dissipation tests.

Fluctuations in the level of groundwater may occur due to variations in rainfall, irrigation practice, and other factors not evident at the time measurements were made.

2.8 LABORATORY TESTING

We performed laboratory tests on selected soil samples to evaluate their engineering properties. For this project, we performed moisture content, dry density, unconfined compression, plasticity index, and hydrometer. Moisture contents and dry densities are recorded on the boring logs in Appendix A; other laboratory data are included in Appendix B.

In addition, corrosivity testing and analysis of near-surface soil samples collected during boring drilling was performed by CERCO Analytical. The results are presented in Appendix B.

3.0 CONCLUSIONS

From a geotechnical engineering viewpoint, in our opinion, the site is suitable for the proposed development, provided the geotechnical recommendations in this report are properly incorporated into the design plans and specifications.

The primary geotechnical concerns that could affect development on the site are existing fill, groundwater, slope stability, and seismically induced settlement. We summarize our conclusions below.

3.1 EXISTING FILL

Based on the data from our borings and test pits, the site is underlain by fill. Since the placement of the existing fill is unknown, the fill will be considered as non-engineered. As described previously, the fill depth encountered ranged from 2 feet to 8 feet. The approximate depth of this non-engineered fill is shown in Figure 3.

In addition, as discussed in our Phase II Environmental Site Assessment (ENGEO, 2022), several former underground storage tanks (USTs) were located at the eastern side of the site. The locations of these USTs are approximately shown on Figure 3. These former USTs were removed, and the excavations were backfilled with soil. We provide grading recommendations for the backfill of these former USTs in Section 5.1.

Non-engineered fill can undergo excessive settlement, especially under new fill or building loads. Without proper documentation of existing fill placed on the site, we recommend complete removal and recompaction of the existing fill. We present fill removal recommendations in Section 5.2.

3.2 EXPANSIVE SOIL

We observed potentially expansive clay near the surface of the site. Our laboratory testing indicates that this soil exhibits moderate to high shrink/swell potential with variations in moisture content.

Expansive soil changes in volume with changes in moisture. They can shrink or swell and cause heaving and cracking of slabs-on-grade, pavements, and structures founded on shallow foundations. Building damage due to volume changes associated with expansive soil can be reduced by: (1) using a rigid mat foundation that is designed to resist the settlement and heave of expansive soil, (2) deepening the foundations to below the zone of moisture fluctuation, i.e. by using deep footings or drilled piers, and/or (3) using footings at normal shallow depths but bottomed on a layer of select fill having a low expansion potential.

Post-tensioned mat foundations are the preferred foundation system for the residential structures. Design criteria for this foundation type are presented in Section 6.1.

Successful performance of structures on expansive soil requires special attention during construction. It is imperative that exposed soil be kept moist prior to placement of concrete for foundation construction. It can be difficult to remoisturize clayey soil without excavation, moisture conditioning, and recompaction.

3.3 SEISMIC HAZARDS

Potential seismic hazards resulting from a nearby moderate to major earthquake can generally be classified as primary and secondary. The primary effect is ground rupture, also called surface faulting. The common secondary seismic hazards include ground shaking and ground lurching. The following sections present a discussion of these hazards as they apply to the site. Based on topographic and lithologic data, the risk of regional subsidence or uplift, landslides, tsunamis or seiches is considered low to negligible at the site. Seismic hazards include ground rupture, ground shaking, liquefaction, and lateral spreading are discussed in the following sections.

3.3.1 Ground Rupture

Since there are no known active faults crossing the property and the site is not located within an Earthquake Fault Special Study Zone, it is our opinion that ground rupture is unlikely at the subject property.

3.3.2 Ground Shaking

An earthquake of moderate to high magnitude generated within the San Francisco Bay region could cause considerable ground shaking at the site, similar to that which has occurred in the past. To mitigate the shaking effects, structures should be designed using sound engineering judgment and the 2022 California Building Code (CBC) requirements, as a minimum. Seismic design provisions of current building codes generally prescribe minimum lateral forces, applied statically to the structure, combined with the gravity forces of dead and live loads. The code prescribed lateral forces are generally considered to be substantially smaller than the comparable forces that would be associated with a major earthquake. Therefore, structures should be able to: (1) resist minor earthquakes without damage, (2) resist moderate earthquakes without structural damage but with some nonstructural damage, and (3) resist major earthquakes without collapse but with some structural as well as nonstructural damage. Conformance to the current building code recommendations does not constitute any kind of guarantee that significant structural damage would not occur in the event of a maximum magnitude earthquake; however, it is reasonable to expect that a well-designed and well-constructed structure will not collapse or cause loss of life in a major earthquake (SEAOC, 1996).

3.3.3 Liquefaction

The site is located within a State of California Seismic Hazard Zone (CGS, 2006) for areas that may be susceptible to liquefaction (Figure 7). Soil liquefaction results from loss of strength during cyclic loading, such as imposed by earthquakes. Soil most susceptible to liquefaction is clean, loose, saturated, uniformly graded, fine-grained sand. Empirical evidence indicates that loose to medium-dense gravel, silty sand, low-plasticity silt, and some low-plasticity clay are also potentially liquefiable. When seismic ground shaking occurs, the soil is subjected to cyclic shear stresses that can cause excess hydrostatic pressures to develop. If excess hydrostatic pressures exceed the effective confining stress from the overlying soil, it is said to have liquefied, and if the sand consolidates or vents to the surface during and following liquefaction, ground settlement and surface deformation may occur. In addition to liquefaction of sandy materials, clayey soil can also undergo “cyclic softening” or strength loss as a result of cyclic loading. Since the site is composed of many thick clay layers, we considered this effect in our analyses.

We performed an evaluation of liquefaction potential for the project site based on our CPT data using the computer software CLiq (Version 3.4.1.4) developed by GeoLogismiki. The software incorporates the procedure introduced by the 1996 National Center for Earthquake Engineering Research (NCEER) workshop and the 1998 NCEER/National Science Foundation (NSF) workshop. The workshops are summarized by Youd et al. (2001) and updated by Robertson (2009). This software also incorporates the method introduced by Idriss and Boulanger (2008) and updated by Boulanger and Idriss (2014).

As discussed earlier, groundwater found at the site ranges from 5.2 to 16 feet bgs. We used an assumed groundwater depth of 5 feet in our analysis. We estimated the Cyclic Stress Ratio (CSR) for a peak ground acceleration (PGA_M) value of 0.85g with an earthquake magnitude of 7.01 based on our deaggregation of the hazard at a spectral period of the peak ground acceleration for a 2475-year return period (Table 3.6-1). To consider the reduction in induced shear stresses and number of shear stress cycles transmitted to deeper soil layers as a result of the initial liquefaction of surficial layers, we also implemented a depth weighting factor in accordance with Cetin (2009), which applies weighting of volumetric strain with depth and is appropriate to utilize when calculating surface settlements in accordance with the methodology presented by Zhang et al. (2002). As a result, the contribution of settlement of deeper soil layers to ground surface settlement is reduced.

To assess liquefaction-induced settlement, we considered the methodology presented by Zhang et al. (2002). We performed our liquefaction assessment based on the methodology by Boulanger and Idriss (2014). Our analysis results indicate that the layers of sand and silty/clayey sand from 5 to 35 feet bgs are susceptible to liquefaction. In general, based on analysis results, we estimated a total liquefaction-induced settlement of up to approximately 2½ inches, with a differential settlement of 1¼ inches over a span of 50 feet for the majority areas of the site. As described in Section 2.6, the thickness of sand layers was notably thicker towards the southeastern portion of the site. We estimated a total liquefaction-induced settlement of up to approximately 5 inches, with a differential settlement of up to 2½ inches over 50 feet for the southeastern corner of the site. The approximate delineation of the area with higher liquefaction-induced settlement is shown in Figure 2. The results of our analyses are included in Appendix C.

Our exploration data and analysis results indicate that there is a layer of non-liquefiable material at least 5 to 10 feet thick above the sandy materials that are considered to have a liquefaction potential. Towards the center and western side of the site, the thickness of the liquefiable material ranges from approximately 3 to 5 feet thick. Therefore, the risk of sand boils is considered low. On the eastern side of the property, the layer of liquefiable sand is thicker, ranging from 5 to 7 feet thick. Therefore, some surface manifestation, such as sand boil, is possible at these locations.

3.3.4 Lateral Spreading

Lateral spreading involves lateral ground movements caused by seismic shaking. These lateral ground movements are often associated with a weakening or failure of an embankment or soil mass overlying a layer of liquefied sand or weak soil. As discussed in Section 2.6, the sand layers vary across the site and range from approximately 5 feet to 15 feet thick, with the sand layers generally being thickest at the east and west of the site and become thinner or diminished at the middle of the site. As a result, some of the sand layers are isolated and not continuous. We conducted slope stability analyses of the open channel northwest of the property for lateral spreading risk, which are discussed in the later section.

3.3.5 Ground Lurching

Ground lurching is a result of the rolling motion imparted to the ground surface during energy released by an earthquake. Such rolling motion can cause ground cracks to form in weaker soil. The potential for the formation of these cracks is considered greater at contacts between deep alluvium and bedrock. Such an occurrence is possible at the site as in other locations in the Bay Area region, but based on the site location, it is our opinion that the offset is expected to be minor. We provide recommendations for foundation and pavement design in this report that are intended to reduce the potential for adverse impacts from lurch cracking.

3.3.6 Flooding

According to the flood map by FEMA (2009), the area along the channel is mapped within a special flood hazard area (Zone AE) with a flood elevation of 31 feet, and the remainder of the project site is mapped within an area of minimal flood hazard (Zone X). The civil engineer should review pertinent information relating to possible flood levels for the subject site based on final pad elevations and provide appropriate design measures for development of the project, if recommended.

3.4 COMPRESSIBLE SOIL

Based on the existing grades near to the street elevation, additional fill will not be anticipated during site grading. In our exploration, we generally encountered stiff to very stiff clay that is considered unlikely to undergo consolidation settlement due to the types of loads imposed from the proposed townhome structures. We encountered one approximately 3-foot-thick layer of soft, elastic silt at approximately 35 feet bgs. However, this layer is located relatively deep and appears to be discontinuous in our exploration. The effect of the building load to this soft silt layer is minimal. Therefore, the risk of post-construction consolidation settlement is considered low. Once we receive the final site grading concept and building load, we can re-evaluate the consolidation settlement.

3.5 SLOPE STABILITY ANALYSES

We conducted slope stability analyses for static and pseudo-static conditions using the computer program Slide2 (Build 9.020). Slide2 is a limit equilibrium program that allows the user various search routines to locate the minimum factor of safety and critical slip surface. For our analyses, we used the Spencer's Method.

Prior to performing slope stability analyses, we developed a subsurface profile and assigned soil strengths based on our data from explorations and laboratory tests. The shear strengths used in the slope stability analyses are based on the test data and empirical correlations of blow counts, plasticity index (PI), and soil type. For pseudo-static conditions, the sand layers as described in Section 2.6 are considered liquefiable. Two layers of sand with liquefaction potential are included in the slope stability model. We considered one 4-foot layer of liquefiable material below the fill and another 8-foot layer of liquefiable sand at 19 feet below ground surface. For the seismic slope stability analysis, we estimated the residual strength of the liquefied soil based on the correlation of blow counts to residual strength from "SPT-based analysis of cyclic pore pressure generation and undrained residual strength" (Seed and Harder, 1990). The lower bound estimate of the residual strength of the liquefied soil was used. Based on the current site plan provided (WHA, 2022), the townhomes will be located 5½ feet away from the top of slope. We assumed an average load of 450 psf for these townhomes.

In performing our slope stability analyses for seismic condition, we used an acceleration of two-thirds of the Geometric Mean Maximum Considered Earthquake peak ground acceleration (PGA_M) of 0.85g, corresponding to the estimated 2022 CBC seismic design parameters. In addition, we performed a "pseudo-static" screening analysis, as recommended in "Guidelines for Evaluating and Mitigating Seismic Hazards in California" (SP117A) by California Geological Survey (CGS). For this screening analysis, we selected a seismic coefficient of 0.22g for an assumed displacement threshold of about 15 centimeters (approximately 6 inches). It is important to note that developers of this simplified approach to estimating displacement consider the results of these analyses to be indices of expected seismic performance and not predictions of actual slope displacement amount or location of displacement.

We performed slope stability analyses for static and pseudo-static conditions. For static conditions, we considered slopes with a factor of safety of greater than 1.5 to be considered stable. Slopes that have a factor of safety greater than 1.0 using a seismic coefficient derived from the screening analysis procedure of Stewart and others (2003) can be considered stable.

To arrive with the adequate factors of safety under static and seismic conditions, two layers of geogrids of 15 feet long, Tensar UX1400MSE, placed at depths of 2 feet and 3 feet bgs are required. We modeled the geogrid with the strength data acquired from the manufacturer's website. Further discussion of geogrid reinforcement is included in Section 5.3. Provided that geogrid reinforced subgrade is installed below the buildings along the western property line, the proposed building setback distance from the western channel is considered adequate.

Based on the results of our analysis, the creek bank should remain stable under seismic condition. However, it should be noted that for areas not mitigated with geogrid reinforcement, long-term creep/sloughing of the creek bank is possible and should be expected. Graphical results of our slope stability analysis are presented in Appendix D.

3.6 SOIL CORROSION POTENTIAL

As part of this study, we obtained representative near-surface soil samples during drilling and submitted to a qualified analytical lab for determination of pH, resistivity, sulfate, and chloride. The results are included in Appendix B and summarized in the table below.

TABLE 3.6-1: Corrosivity Test Results

SAMPLE LOCATION	DEPTH	PH	RESISTIVITY (OHMS-CM)	CHLORIDE (MG/KG)	SULFATE (MG/KG)
2-B1	2.5’	7.00	4,200	N.D.	N.D.
2-B3	2.5’	9.15	1,400	85	N.D.

* ASTM D4327

The 2022 CBC references the 2019 American Concrete Institute Manual, ACI 318-19, Section 19.3.1 for concrete durability requirements. ACI Table 19.3.1.1 provides the following exposure categories and classes, and Table 19.3.2.1 provides requirements for concrete in contact with soil based upon the exposure class.

TABLE 3.6-2: ACI Table 19.3.1.1: Sulfate Exposure Category and Classes

CATEGORY	CLASS	CONDITION	
		WATER- SOLUBLE SULFATE IN SOIL % BY WEIGHT*	DISSOLVED SULFATE IN WATER MG/KG (PPM)**
S Sulfate	S0	$SO_4 < 0.10$	$SO_4 < 150$
	S1	$0.10 \leq SO_4 < 0.20$	$150 \leq SO_4 \leq 1,500$ seawater
	S2	$0.20 \leq SO_4 \leq 2.00$	$1,500 \leq SO_4 \leq 10,000$
	S3	$SO_4 > 2.00$	$SO_4 > 10,000$

* Percent sulfate by mass in soil determined by ASTM C1580
**Concentration of dissolved sulfates in water in ppm determined by ASTM D516 or ASTM D4130

Based on the test results, the site soil can be classified as S0. Considering sulfate exposure of S0, there is no requirement for cement type or water-cement ratio; however, a minimum concrete compressive strength of 2,500 psi is specified by the building code. For this sulfate range, we recommend Type II cement and a concrete mix design for building foundations that incorporates a maximum water-cement ratio of 0.50. However, it should be noted that the structural engineering design requirements for concrete may result in more stringent concrete specifications.

Brief corrosivity evaluation of the near-surface soil is presented by CERCO in Appendix B. If desired to investigate this further, we recommend a corrosion consultant be retained to evaluate if specific corrosion recommendations are advised for the project.

3.7 2022 CALIFORNIA BUILDING CODE (CBC) SEISMIC DESIGN PARAMETERS

The 2020 CBC utilizes seismic design criteria established in the ASCE/SEI Standard "Minimum Design Loads and Associated Criteria for Buildings and Other Structures," (ASCE 7-16). Based on the subsurface conditions encountered and shear wave measurements, we characterized the site as Site Class D.

ASCE 7-16 requires a site-specific ground-motion hazard analysis for Site Class D sites with a mapped S_1 value greater than or equal to 0.2. However, Section 11.4.8 of ASCE 7-16 and Supplement No. 3 provide an exception to this requirement. A site-specific ground-motion hazard analysis is not required where the value of the parameter S_{M1} determined by Equation 11.4-2 and shown in Table 1 is increased by 50 percent for developing the mapped Risk-Targeted Maximum Considered Earthquake (MCE_R) spectral response, calculating S_{D1}, and evaluating C_s in accordance with Chapter 12 of ASCE 7-16.

In Table 3.7-1 below, we provide the CBC seismic parameters based on the United States Geological Survey's (USGS') Seismic Design Maps for your use. When using this table, considerations should be given to exceptions in Section 11.4.8 of ASCE 7-16, as described in this report.

TABLE 3.7-1: 2022 CBC Seismic Design Parameters, Latitude: **37.532129** Longitude: **-122.008132**

PARAMETER	VALUE
Site Class	D
Mapped MCE_R Spectral Response Acceleration at Short Periods, S_S (g)	1.83
Mapped MCE_R Spectral Response Acceleration at 1-second Period, S_1 (g)	0.70
Site Coefficient, F_a	1.00
Site Coefficient, F_v	1.70*
MCE_R Spectral Response Acceleration at Short Periods, S_{MS} (g)	1.82
MCE_R Spectral Response Acceleration at 1-second Period, S_{M1} (g)	1.19*
Design Spectral Response Acceleration at Short Periods, S_{DS} (g)	1.22
Design Spectral Response Acceleration at 1-second Period, S_{D1} (g)	0.79*
Mapped MCE Geometric Mean (MCE_G) Peak Ground Acceleration, PGA (g)	0.77
Site Coefficient, F_{PGA}	1.1
MCE_G Peak Ground Acceleration adjusted for Site Class effects, PGA_M (g)	0.85
Long period transition-period, T_L (sec)	12

*The parameters above should only be used for calculation of T_s, determination of Seismic Design Category, and, when taking the exceptions under Items 1 and 2 of ASCE 7-16 Section 11.4.8. (Supplement Number 3 https://ascelibrary.org/doi/epdf/10.1061/9780784414248.sup3).

We recommend that we collaborate with the structural engineer of record to further evaluate the effects of taking the exception on the structural design and identify the need for performing a site-specific ground-motion hazard analysis. We can prepare a proposal for a site-specific ground-motion hazard analysis, if requested.

4.0 CONSTRUCTION MONITORING

Our experience and that of our profession clearly indicate that the risk of costly design, construction, and maintenance problems can be significantly lowered by retaining the design geotechnical engineering firm to:

1. Review the final grading and foundation plans, and specifications prior to construction to evaluate whether our recommendations have been implemented, and to provide additional or modified recommendations, as needed. This also allows us to check if any changes have occurred in the nature, design or location of the proposed improvements and provides the opportunity to prepare a written response with updated recommendations.
2. Perform construction monitoring to check the validity of the assumptions we made to prepare this report. Earthwork operations should be performed under the observation of our representative to check that the site is properly prepared, the selected fill materials are satisfactory, and that placement and compaction of the fill has been performed in accordance with our recommendations and the project specifications. Sufficient notification to us prior to earthwork is important.

If we are not retained to perform the services described above, then we are not responsible for any party's interpretation of our report (and subsequent addenda, letters, and verbal discussions).

5.0 EARTHWORK RECOMMENDATIONS

As used in this report, relative compaction refers to the in-place dry unit weight of soil expressed as a percentage of the maximum dry unit weight of the same soil, as determined by the ASTM D1557 laboratory compaction test procedure, latest edition. Compacted soil is not acceptable if it is unstable; it should exhibit only minimal flexing or pumping, as observed by an ENGEO representative. The term "moisture condition" refers to adjusting the moisture content of the soil by either drying if too wet or adding water if too dry.

We define "structural areas" as any area sensitive to settlement of compacted soil. These areas include, but are not limited to building pads, sidewalks, pavement areas, and retaining walls.

5.1 GENERAL SITE CLEARING

Areas to be developed should be cleared of surface and subsurface deleterious materials, including existing building foundations, slabs, buried utility and irrigation lines, pavements, debris, and designated trees, shrubs, and associated roots. According to the existing conditions as shown on the Tentative Map by cbg and dated November 2, 2022, underground utilities exist between Parcel 1 and Parcel 2 of the site. If any of these utilities will be abandoned from the site, the utility pipe and its backfill should be removed entirely and the ends of the pipeline should be properly capped. Test pit backfill below finished grades should be removed and recompacted as engineered fill.

As discussed in our Phase II Environmental Assessment report (ENGEO, 2022), several monitoring wells, and former USTs existed on the eastern portion of the site. We understand that the monitoring wells will be properly demolished and removed prior to grading activities on site. The former USTs were removed, and the excavations were backfilled with soil. The backfill for the former USTs will need to be removed and recompacted as engineered fill. The approximate locations of these former USTs are shown in Figure 3.

Following clearing, the site should be stripped to remove surface organic materials. Strip organics from the ground surface to a depth of at least 2 to 3 inches below the surface. Tree roots should be removed down to a depth of at least 3 feet below existing grade. Remove stripping's from the site or, if considered suitable by the landscape architect and owner, use them in landscape fill. Any surficial soil that will be retained for future use in landscape areas should be stockpiled in areas where it will not interfere with grading operations.

Within the development areas, excavations resulting from demolition, stripping, and tree root removal, which extend below final grades, should be cleaned to firm undisturbed soil as determined by our field representative. No loose or uncontrolled backfilling of depressions resulting from demolition and stripping is permitted. The surface should then be scarified, moisture conditioned, and backfilled with compacted engineered fill. The requirements for backfill materials and placement operations are the same as for engineered fill.

5.2 EXISTING NON-ENGINEERED FILL REMOVAL

Existing fill should be removed to competent native soil, as evaluated by ENGEO. Figure 3 displays the approximate extent and thickness of existing fill at the site and the location of former USTs. For areas of UST backfill removal that are within the proposed structure footprint, the building pad may contain a differential fill thickness. If a differential fill thickness is more than 10 feet within the building footprint, local subexcavation and replacement by engineered fill will be necessary to maintain a differential fill thickness of 10 feet.

5.3 FOUNDATION SUBGRADE REINFORCEMENT

As discussed previously, we recommended the subgrade of the townhome structures be overexcavated and replaced with geogrid-reinforced backfill along the western limit of the buildings.

We recommend two layers of geogrid, Tensar UX1400MSE or approved equivalent, be placed underneath the western side of the structures; the geogrid should be placed 2 feet and 3 feet bgs, respectively. The geogrid should be at least 15 feet long and extend 2 feet laterally beyond the western edge of the proposed structure footprints.

5.4 OVER-OPTIMUM SOIL MOISTURE CONDITIONS

The contractor should anticipate encountering excessively over-optimum (wet) soil moisture conditions during winter or spring grading, or during or following periods of rain. Wet soil can make proper compaction difficult or impossible. Wet soil conditions can be mitigated by:

1. Frequent spreading and mixing during warm dry weather,
2. Mixing with drier materials,
3. Mixing with a lime, lime-flyash, or cement product, or
4. Stabilizing with aggregate or geotextile stabilization fabric, or both.

Options 3 and 4 should be evaluated by ENGEO prior to implementation.

5.5 ACCEPTABLE FILL

On-site soil material is suitable as fill material provided it is processed to remove concentrations of organic material (soil which contains more than 3 percent organic content by weight), debris, and particles greater than 8 inches in maximum dimension.

Imported fill materials should meet the above requirements and have a plasticity index less than 12, and at least 20 percent passing the No. 200 sieve. Allow ENGEO to sample and test proposed imported fill materials at least 5 days prior to delivery to the site.

5.6 REUSE OF ON-SITE RECYCLED MATERIALS

If desired to reuse Portland Cement concrete as engineered fill, we recommend that it should be grounded up and thoroughly mixed with on-site or import soil. In general, recycled concrete should be grounded down to less than 4 inches in greatest dimension, with no more than 25 percent larger than 2½ inches. Recycled material should be thoroughly mixed with a sufficient amount of soil, such that there is no more than 40 percent by weight of recycled material in the final mix.

We recommend that fill containing recycled concrete be placed near the bottom of proposed fill underneath proposed roadways and parking.

The existing Portland Cement concrete can be considered as recycle aggregate base for pavements. The material will need to be broken down, but not pulverized and conform with the Caltrans gradations of aggregate base if used to substitute for roadway base.

5.7 FILL COMPACTION

The contractor should perform subgrade compaction prior to fill placement to provide adequate bonding with the initial lift of fill. The contractor should first scarify the exposed soil to a depth of at least 12 inches then moisture condition and compact the subgrade in accordance with the requirements listed in the table below. The lift thickness should not exceed 12 inches or the depth of penetration of the compaction equipment used, whichever is less. The following compaction recommendations should be used for the placement and compaction of subgrade and fill:

TABLE 5.7-1: Subgrade and Engineered Fill Compaction and Moisture Content Requirements

FILL DEPTH	MATERIALS	MINIMUM RELATIVE COMPACTION (%)	MINIMUM MOISTURE CONTENT (percentage points above optimum)**
Within the upper 5 feet of finished grade	On-site Soil	87 to 92	4
From 5 feet below finished grade	On-site Soil	90	4
Pavement, Upper 1 foot Subgrade	On-site Soil	90	4
Pavement	Class 2 Aggregate Base	95	0

The relative compaction and optimum moisture content of soil and aggregate base referred to in this report are based on the most recent ASTM D1557 test method.

5.7.1 Underground Utility Backfill

5.7.1.1 General

The contractor is responsible for conducting trenching and shoring in accordance with Cal/OSHA requirements. Project consultants involved in utility design should specify pipe bedding materials.

Where utility trenches cross underneath buildings, we recommend that a plug be placed within the trench backfill to help prevent the normally granular bedding materials from acting as a conduit for water to enter beneath the building. The plug should be constructed using a sand cement slurry (minimum 28-day compressive strength of 500 psi) or relatively impermeable native soil for pipe bedding and backfill. We recommend that the plug extend for a distance of at least 3 feet in each direction from the point where the utility enters the building perimeter.

Jetting of backfill is not an acceptable means of compaction. We may allow thicker loose lift thicknesses based on acceptable density test results, where increased effort is applied to rocky fill, or for the first lift of fill over pipe bedding.

5.7.2 Landscape Fill

Process, place, and compact fill in accordance with Section 5.7, except compact to at least 85 percent relative compaction (ASTM D1557).

5.8 SITE DRAINAGE

5.8.1 Surface Drainage

The project civil engineer is responsible for designing surface drainage improvements. With regard to geotechnical engineering issues, we recommend that finish grades be sloped away from buildings and pavements to the maximum extent practical to reduce the potentially damaging effects of expansive soil. The latest California Building Code Section 1804.4 specifies minimum slopes of 5 percent within 10 feet away from foundations. Where lot lines or surface improvements restrict meeting this slope requirement, we recommend that specific drainage requirements be developed. As a minimum, we recommend the following.

1. Discharge roof downspouts into closed conduits and direct away from foundations to appropriate drainage devices.
2. Consider the use of rear lot surface drainage collection systems to reduce overland surface drainage from back to front of lot.
3. Do not allow water to pond near foundations, pavements, or exterior flatwork.
4. Maintain uniform moisture around the buildings.

5.8.2 Subsurface Drainage

Based on our site exploration and current grading concepts for the site, we do not anticipate that subdrainage systems will be recommended. We recommend that we review the site grading plans to further evaluate the need for subdrainage systems as well as observe the earthwork operations during site grading.

5.9 STORMWATER BIORETENTION AREAS

If bioretention areas are implemented, we recommend that, when practical, they be planned a minimum of 5 feet away from structural site improvements, such as buildings, streets, retaining walls, and sidewalks/driveways. When this is not practical, bioretention areas located within 5 feet of structural site improvements can either:

1. Be constructed with structural side walls capable of withstanding the loads from the adjacent improvements, or
2. Incorporate filter material compacted to between 85 and 90~percent relative compaction (ASTM D1557, latest edition) and a waterproofing system designed to reduce the potential for moisture transmission into the subgrade soil beneath the adjacent improvement.

In addition, one of the following options should be followed.

1. We recommend that bioretention design incorporate a waterproofing system lining the bioswale excavation and a subdrain, or other storm drain system, to collect and convey water to an approved outlet. The waterproofing system should cover the bioretention area excavation in such a manner as to reduce the potential for moisture transmission beneath the adjacent improvements.
2. Alternatively, and with some risk of movement of adjacent improvements, if infiltration is desired, we recommend the perimeter of the bioretention areas be lined with an HDPE tree root barrier that extends at least 1 foot below the bottom of the bioretention areas/infiltration trenches.

Site improvements located adjacent to bioretention areas that are underlain by base rock, sand, or other imported granular materials, should be designed with a deepened edge that extends to the bottom of the imported material underlying the improvement.

Where adjacent site improvements include buildings greater than three stories, streets steeper than 3 percent, or design elements subject to lateral loads (such as from impact or traffic patterns), additional design considerations may be recommended. If the surface of the bioretention area is depressed, the slope gradient should follow the slope guidelines described in earlier section(s) of this document. In addition, although not recommended, if trees are to be planted within bioretention areas, HDPE Tree Boxes that extend below the bottom of the bioretention system should be installed to reduce potential impact to subdrain systems that may be part of the bioretention area design. For this condition, the waterproofing system should be connected to the HPDE Tree Box with a waterproof seal.

Given the nature of bioretention systems and possible proximity to improvements, we recommend ENGEO be retained to review design plans and provide testing and observation services during the installation of linings, compaction of the filter material, and connection of designed drains.

It should be noted that the contractor is responsible for conducting all excavation and shoring in a manner that does not cause damage to adjacent improvements during construction and future maintenance of the bioretention areas. As with any excavation adjacent to improvements, the contractor should reduce the exposure time such that the improvements are not detrimentally impacted.

5.10 LANDSCAPING CONSIDERATION

As the near-surface soil is moderately to highly expansive, we recommend greatly restricting the amount of surface water infiltration near structures, pavements, flatwork, and slabs-on-grade. This may be accomplished by:

- Selecting landscaping that requires little or no watering, especially within 3 feet of structures, slabs-on-grade, or pavements.
- Using low precipitation sprinkler heads.
- Regulating the amount of water distributed to lawn or planter areas by installing timers on the sprinkler system.
- Providing surface grades to drain rainfall or landscape watering to appropriate collection systems and away from structures, slabs-on-grade, or pavements.
- Preventing water from draining toward or ponding near building foundations, slabs-on-grade, or pavements.
- Avoiding open planting areas within 3 feet of the building perimeter.

We recommend that these items be incorporated into the landscaping plans.

6.0 FOUNDATION RECOMMENDATIONS

We developed foundation recommendations using data obtained from our field exploration, laboratory test results, and engineering analysis. As previously mentioned, the alternatives proposed for addressing the effects of the native expansive soil on building foundations include post-tensioned mat foundations or conventional footings with slabs-on-grade and pre-saturation.

6.1 POST-TENSIONED MAT FOUNDATIONS

Based on our discussions with you and the structural engineer, we understand that the proposed townhomes will be supported on post-tensioned (PT) mat foundations bearing on prepared engineered fill. The PT mat foundation will be thickened to accommodate the anticipated liquefaction-induced settlement. We estimated a total liquefaction-induced settlement of up to approximately 2½ inches, with a differential settlement of 1¼ inches over a span of 50 feet for the majority areas of the site. A total liquefaction-induced settlement of up to approximately 5 inches, with a differential settlement of up to 2½ inches over 50 feet are estimated for the southwestern area of the site. The approximate delineation of the area with higher liquefaction-induced settlement is shown in Figure 2. In addition, the structural engineer should confirm that the superstructures of the buildings can be able to tolerate the movement associated with the liquefaction-inducted settlement.

The post-tensioned mats should be at least 10 inches thick. The structural engineer should determine the actual PT mat thickness using the geotechnical recommendations in this report; we defer to the professional judgment of the structural engineer on the necessary mat thickness. ENGEO should be retained to review the PT mat foundation design. We recommend that the thickened edge be at least 12 inches wide.

PT mats may be designed for an average allowable bearing pressure of up to 1,000 pounds per square foot (psf) for dead-plus-live loads with maximum localized bearing pressures of 1,500 psf at column or wall loads. Allowable bearing pressures can be increased by one-third for wind or seismic loads. Design PT mats using the criteria presented in Table 6.1-1 below.

TABLE 6.1-1: Post-Tensioned Mat Design Recommendations

CONDITION	CENTER LIFT	EDGE LIFT
Edge Moisture Variation Distance, e_m (feet)	8.7	4.4
Differential Soil Movement, y_m (inches)	0.7	1.1

The above values are based on the procedure presented in "Standard Requirements for Design and Analysis of Shallow Post-Tensioned Concrete Foundations on Expansive and Stable Soil" (PTI DC10.5-19, 2019) by the Post-Tensioning Institute.

Underlay PT mats with a moisture reduction system as recommended below. In addition, moisture conditioning of the building foundation subgrade should be to a moisture content at least 4 percentage points above optimum immediately prior to foundation construction. The subgrade should not be allowed to dry prior to concrete placement. We also recommend that ENGEO be retained to observe the pre-pour moisture conditions to check that our report recommendations have been followed.

6.1.1 Slab Moisture Vapor Reduction

When buildings are constructed with concrete slab-on-grade, such as post-tensioned mats, water vapor from beneath the slab will migrate through the slab and into the building. This water vapor can be reduced but not stopped. Vapor transmission can negatively affect floor coverings and lead to increased moisture within a building. When water vapor migrating through the slab would be undesirable, we recommend the following to reduce, but not stop, water vapor transmission upward through the slab-on-grade.

1. Install a vapor retarder membrane directly beneath the slab. Seal the vapor retarder at all seams and pipe penetrations. Vapor retarders shall conform to Class A vapor retarder in accordance with ASTM E1745, latest edition, "Standard Specification for Plastic Water Vapor Retarders used in Contact with Soil or Granular Fill under Concrete Slabs."
2. Concrete shall have a concrete water-cement ratio of no more than 0.50.
3. Provide inspection and testing during concrete placement to check that the proper concrete and water cement ratio are used.

6.2 EXTERIOR FLATWORK

Exterior flatwork includes items such as concrete sidewalks, steps, and outdoor courtyards exposed to foot traffic only. Provide a minimum section of 4 inches of concrete over 4 inches of aggregate base. Compact the aggregate base to at least 90 percent relative compaction (ASTM D1557). Thicken flatwork edges to at least 8 inches to help control moisture variations in the subgrade and place wire mesh or rebar within the middle third of the slab to help control the width and offset of cracks. Construct control and construction joints in accordance with current Portland Cement Association Guidelines.

7.0 PRELIMINARY PAVEMENT DESIGN

7.1 FLEXIBLE PAVEMENT

Based on the site soil conditions, the following preliminary pavement sections are determined for an assumed resistance value (R-value) of 5 and in accordance with the design methods contained in Chapter 630 of the Caltrans Highway Design Manual.

TABLE 7.1-1: Recommended Asphalt Concrete Pavement Sections

TRAFFIC INDEX	SECTION	
	ASPHALT CONCRETE (Inches)	CLASS 2 AGGREGATE BASE (Inches)
5.0	3	10
6.0	3½	13
7.0	4	16

The above preliminary pavement sections are provided for estimating only. We recommend actual subgrade material be tested for R-value, and the traffic index and minimum pavement section(s) should be confirmed by the civil engineer and the City of Newark.

7.2 RIGID PAVEMENT

We anticipate that concrete pavement sections may be used in areas such as fire lanes or trash enclosure aprons. Final design of rigid pavement sections, and accompanying reinforcement, should be performed based on estimated traffic loads and frequencies. We recommend the following minimum design sections for rigid pavements.

- Use a minimum section of 7½ inches of Portland Cement concrete over 12 inches of Caltrans Class 2 Aggregate Base.
- Reinforce with No. 4 bars at 12 inches on center each way.
- Have a minimum 28-day concrete compressive strength of 3,500 psi.
- Provide minimum control joint spacing in accordance with Portland Cement Association guidelines.

7.3 SUBGRADE AND AGGREGATE BASE COMPACTION

Compact finish subgrade and aggregate base in accordance with Section 5.7. Aggregate Base (AB) should meet the requirements for Class 2 AB in accordance with Section 26-1.02B of the latest Caltrans Standard Specifications.

7.4 CUTOFF CURBS

Saturated pavement subgrade or aggregate base can cause premature failure or increased maintenance of asphalt concrete pavements. This condition often occurs where landscape areas directly abut and drain toward pavements. If desired to install pavement cutoff barriers, they should be considered where pavement areas lie downslope of any landscape areas that are to be sprinklered or irrigated and should extend to a depth of at least 4 inches below the base rock layer. Cutoff barriers may consist of deepened concrete curbs or deep-root moisture barriers.

If reduced pavement life and greater than normal pavement maintenance are acceptable to the owner, then the cutoff barrier may be eliminated.

7.5 RESIDENTIAL DRIVEWAYS/GARAGE SLABS

We were not retained to provide design recommendations for residential driveways or garage slabs. They should be designed to resist the anticipated traffic and structural loads, (and the effects of expansive soil movement.

8.0 LIMITATIONS AND UNIFORMITY OF CONDITIONS

This report presents geotechnical recommendations for design of the improvements discussed in Section 1.3 for the 38600 Cedar Boulevard project. If changes occur in the nature or design of the project, we should be allowed to review this report and provide additional recommendations, if any. It is the responsibility of the owner to transmit the information and recommendations of this report to the appropriate organizations or people involved in design of the project, including but not limited to developers, owners, buyers, architects, engineers, and designers. The conclusions and recommendations contained in this report are solely professional opinions and are valid for a period of no more than 2 years from the date of report issuance.

We strived to perform our professional services in accordance with generally accepted principles and practices currently employed in the area; there is no warranty, express or implied. There are risks of earth movement and property damages inherent in building on or with earth materials. We are unable to eliminate all risks; therefore, we are unable to guarantee or warrant the results of our services.

This report is based upon field and other conditions discovered at the time of report preparation. We developed this report with limited subsurface exploration data. We assumed that our subsurface exploration data are representative of the actual subsurface conditions across the site. Considering possible underground variability of soil and groundwater, additional costs may be required to complete the project. We recommend that the owner establish a contingency fund to cover such costs. If unexpected conditions are encountered, ENGEO must be notified immediately to review these conditions and provide additional and/or modified recommendations, as necessary.

Our services did not include excavation sloping or shoring, soil volume change factors, flood potential, or a geohazard exploration. In addition, our geotechnical exploration did not include work to determine the existence of possible hazardous materials. If any hazardous materials are encountered during construction, the proper regulatory officials must be notified immediately.

This document must not be subject to unauthorized reuse, that is, reusing without written authorization of ENGEO. Such authorization is essential because it requires ENGEO to evaluate the document's applicability given new circumstances, not the least of which is passage of time.

Actual field or other conditions will necessitate clarifications, adjustments, modifications or other changes to ENGEO's documents. Therefore, ENGEO must be engaged to prepare the necessary clarifications, adjustments, modifications or other changes before construction activities commence or further activity proceeds. If ENGEO's scope of services does not include on-site construction observation, or if other persons or entities are retained to provide such services, ENGEO cannot be held responsible for any or all claims arising from or resulting from the performance of such services by other persons or entities, and from any or all claims arising from or resulting from clarifications, adjustments, modifications, discrepancies or other changes necessary to reflect changed field or other conditions.

We determined the lines designating the interface between layers on the exploration logs using visual observations. The transition between the materials may be abrupt or gradual. The exploration logs contain information concerning samples recovered, indications of the presence of various materials such as clay, sand, silt, rock, existing fill, etc., and observations of groundwater encountered. The field logs also contain our interpretation of the subsurface conditions between sample locations. Therefore, the logs contain both factual and interpretative information. Our recommendations are based on the contents of the final logs, which represent our interpretation of the field logs.

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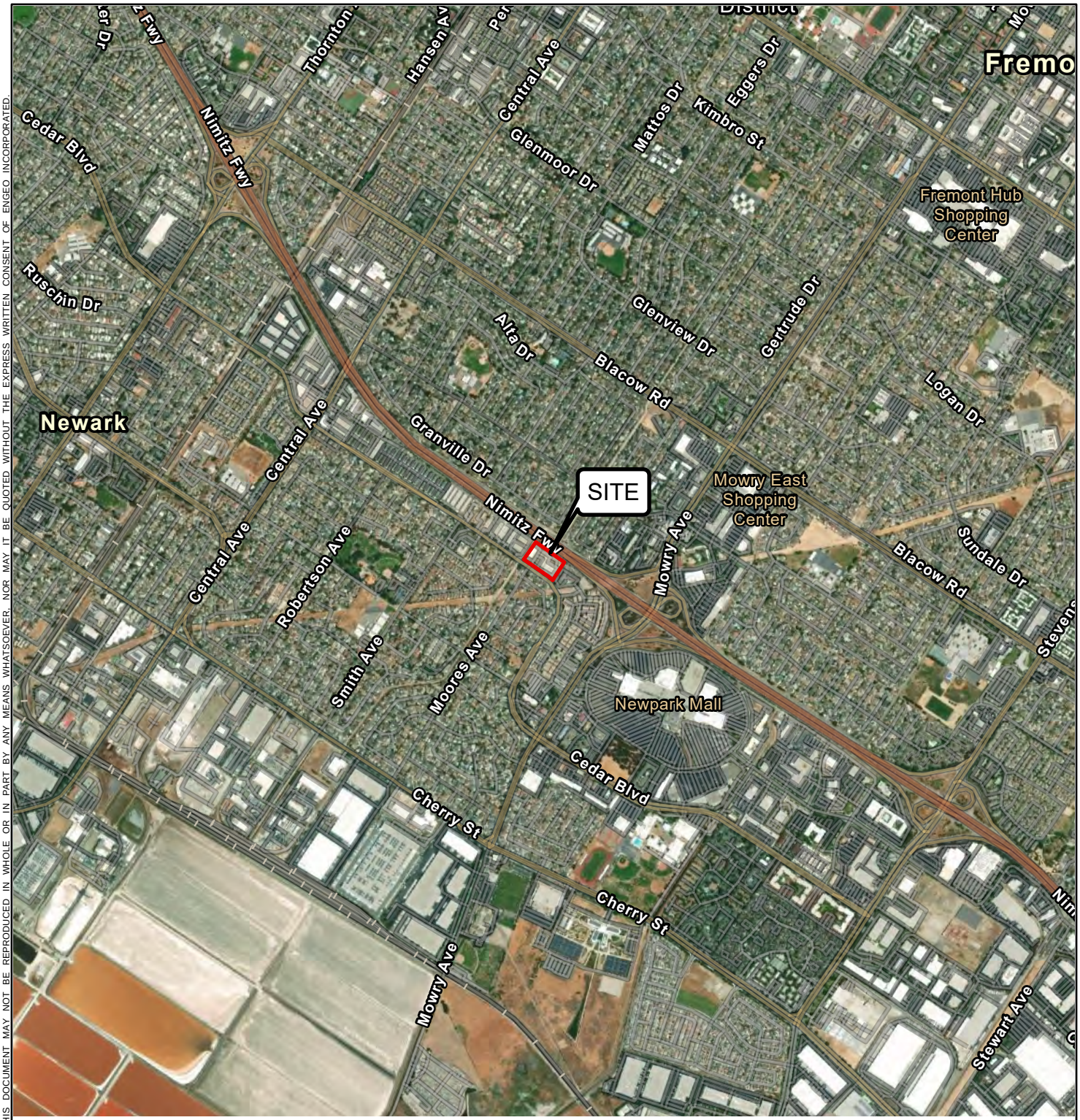
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FIGURES

FIGURE 1: Vicinity Map
FIGURE 2: Site Plan
FIGURE 3: Fill Contour
FIGURE 4: Historical Topography
FIGURE 5: Regional Geologic Map
FIGURE 6: Regional Faulting and Seismicity Map
FIGURE 7: Seismic Hazards Zone Map



BASEMAP SOURCE: ESRI MAPPING SERVICE 2017

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VICINITY MAP
38600 CEDAR BOULEVARD
NEWARK, CALIFORNIA

PROJECT NO. : 15799.004.000		FIGURE NO. 1
SCALE: AS SHOWN		
DRAWN BY: JV	CHECKED BY: MT	

PATH: G:\DRAFTING\PROJECTS_14000 TO 15999\15799\15799001000\GEOTECH\GIS\MAPS\GEX_VICINITY.MXD
LAYOUT: VICINITY USER: QLIANG

ORIGINAL FIGURE PRINTED IN COLOR

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EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- PROJECT SITE
- AREA OF HIGHER LIQUEFACTION INDUCED SETTLEMENT
- CONE PENETRATION TEST (ENGEO, 2022)
- CONE PENETRATION TEST (ENGEO, 2022)
- TEST PIT (ENGEO, 2022)
- BORING (ENGEO, 2022)
- CONE PENETRATION TEST (ENGEO, 2019)

N

0 50 100

FEET

BASEMAP SOURCE: GOOGLE MAPPING SERVICE 2021 AND WHA 2022

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SITE PLAN

38600 CEDAR BOULEVARD

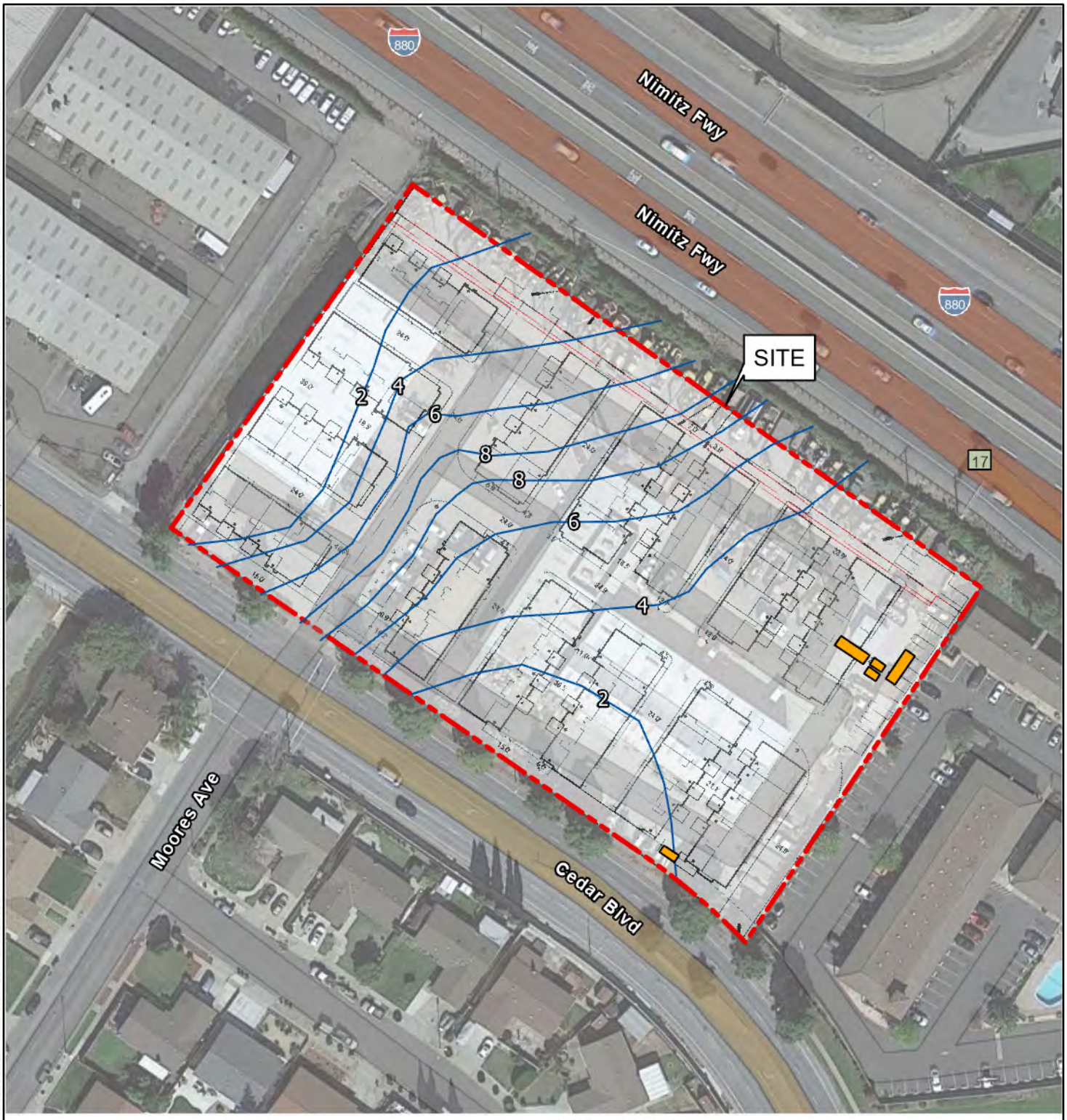
NEWARK, CALIFORNIA

PROJECT NO. :	15799.004.000
SCALE:	AS SHOWN
DRAWN BY: QRL	CHECKED BY: MT

FIGURE NO. 2

PATH: G:\DRAFTING\PROJECTS_14000 TO 15999\15799\15799001000\GEOTECH\FIGURES\
LAYOUT: SITE PLAN USER: QLIANG

ORIGINAL FIGURE PRINTED IN COLOR



N

0 50 100

FEET

EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- PROJECT SITE
- FORMER UNDERGROUND STORAGE TANK LOCATION
- ESTIMATED FILL CONTOUR

BASEMAP SOURCE: GOOGLE MAPPING SERVICE 2021

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FILL CONTOUR

38600 CEDAR BOULEVARD

NEWARK, CALIFORNIA

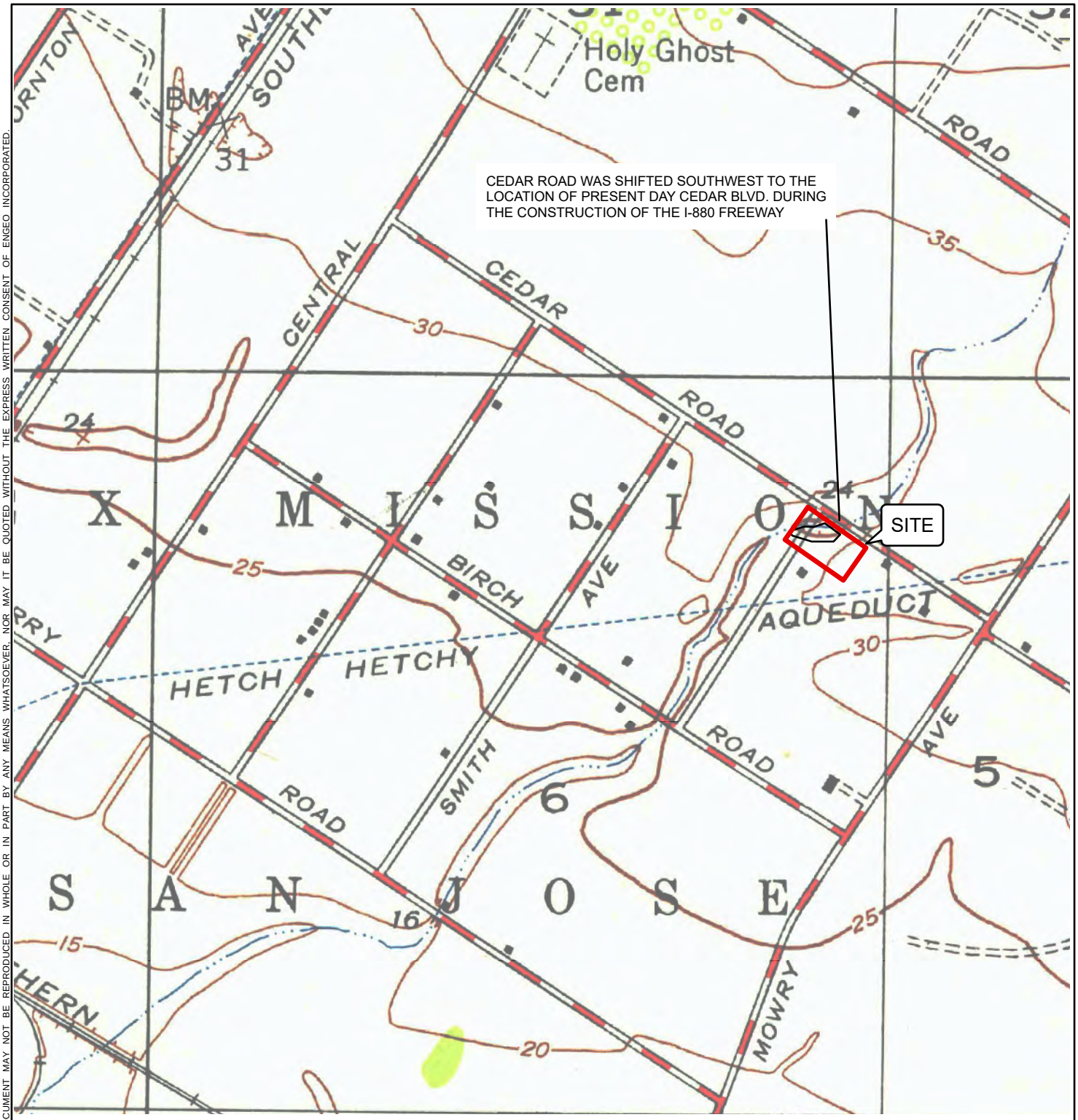
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SCALE:	AS SHOWN
DRAWN BY: QRL	CHECKED BY: SPM

FIGURE NO. 3

ORIGINAL FIGURE PRINTED IN COLOR

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USER: QLIANG

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FEET

BASEMAP SOURCE:USGS 1947

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HISTORICAL TOPOGRAPHY

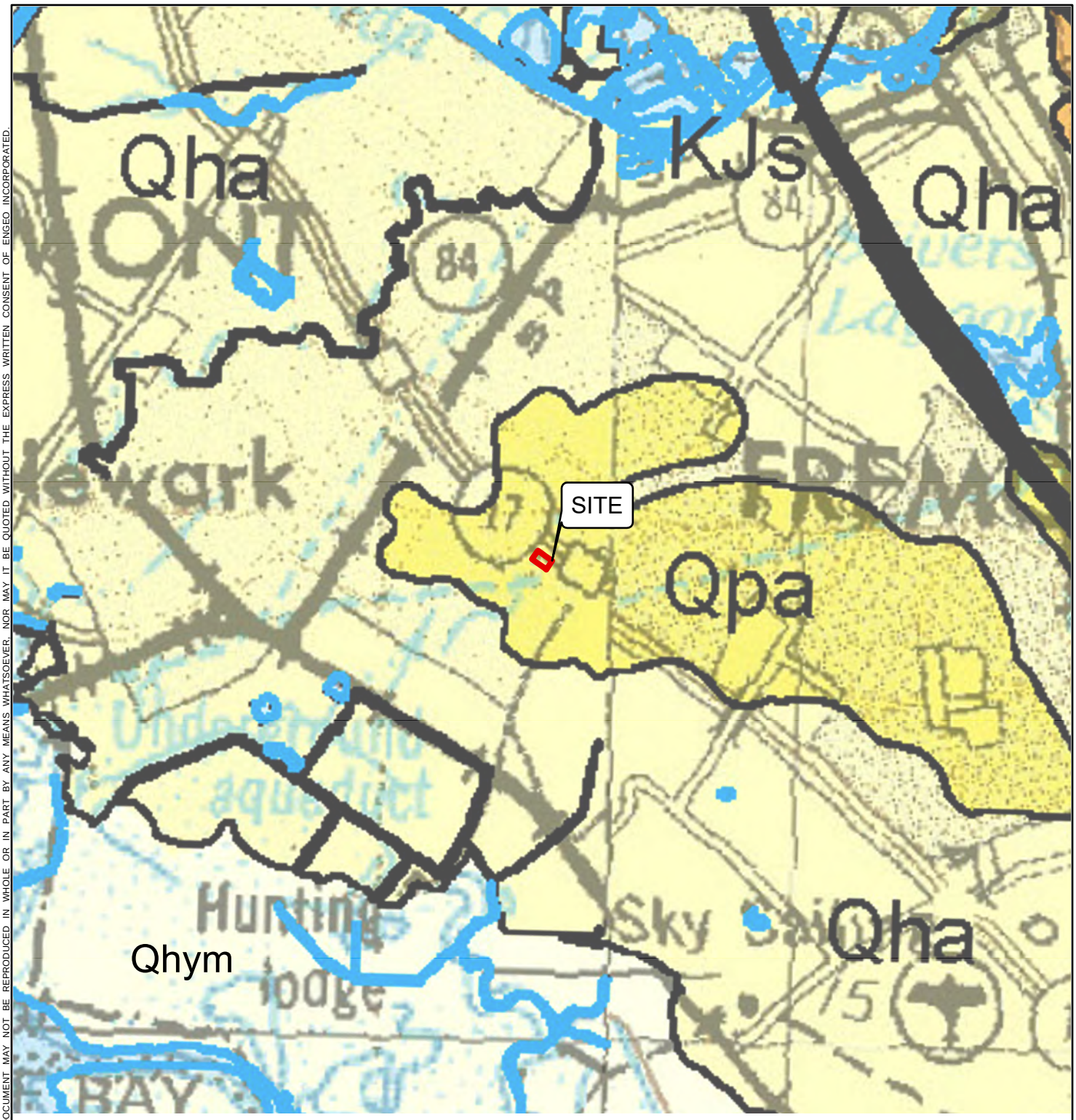
38600 CEDAR BOULEVARD
NEWARK, CALIFORNIA

PROJECT NO. : 15799.004.000	FIGURE NO. 4
SCALE: AS SHOWN	
DRAWN BY: JV	CHECKED BY: SPM

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PATH: G:\DRAFTING\PROJECTS_14000 TO 15999\15799\15799001000\GEOTECH FIGURES\FIG1.MXD
LAYOUT: TOPO USER: QLIANG

ORIGINAL FIGURE PRINTED IN COLOR



N

0 2,000 4,000

FEET

EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- Qpa — ALLUVIUM (PLEISTOCENE)
- Qha — ALLUVIAL (HOLOCENE)
- Qhym — MUD DEPOSITS (LATE HOLOCENE)

BASEMAP SOURCE: GRAYMER, 2006

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REGIONAL GEOLOGIC MAP

38600 CEDAR BOULEVARD

NEWARK, CALIFORNIA

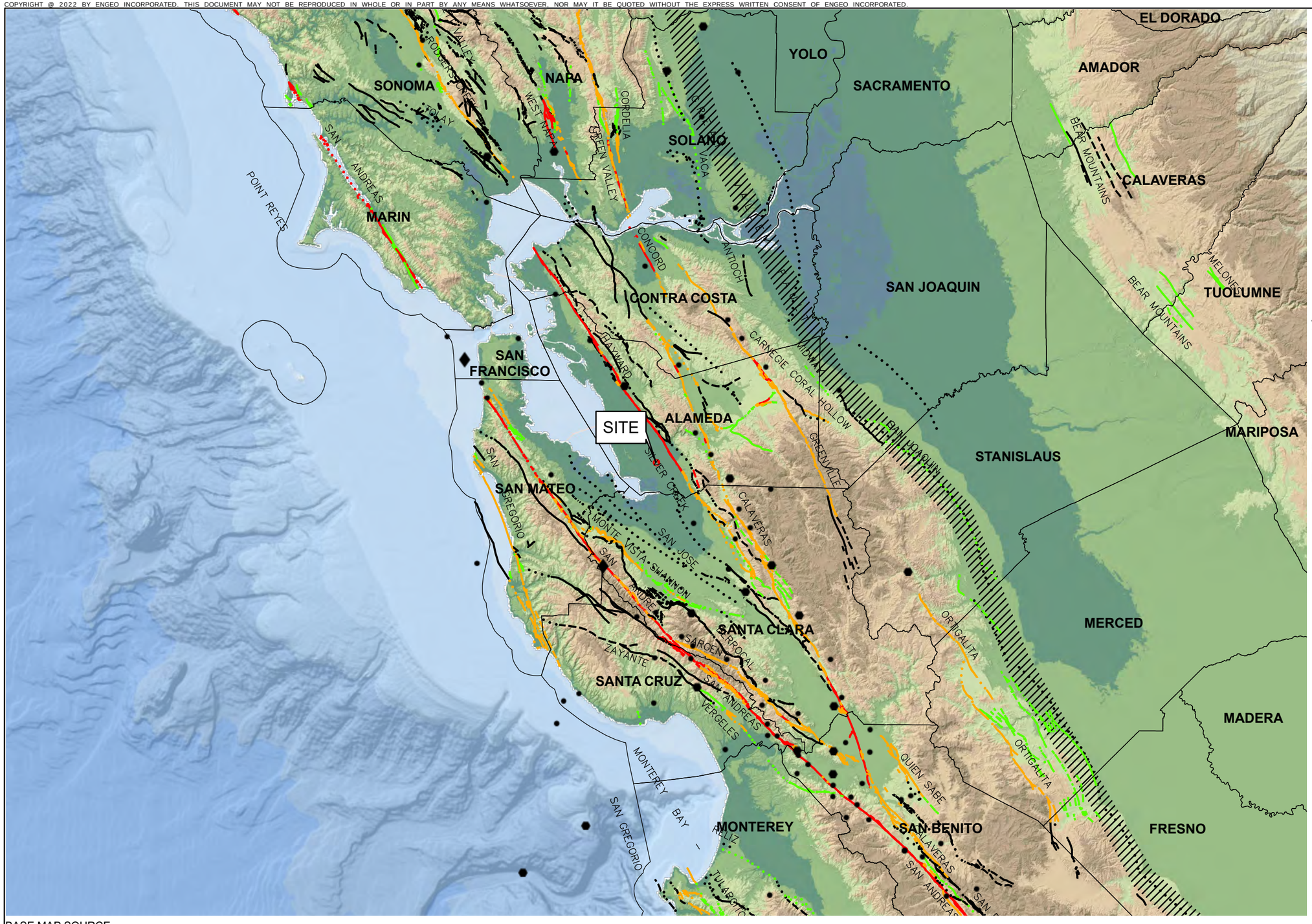
PROJECT NO. : 15799.004.000		FIGURE NO. 5
SCALE: AS SHOWN		
DRAWN BY: JV	CHECKED BY: MT	

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PATH: G:\DRAFTING\PROJECTS_14000 TO 15999\15799\15799001000\GEOTECH\GEOLOGIC\FIG1.GEO.MXD
LAYOUT: GEOLOGIC USER: QLIANG

ORIGINAL FIGURE PRINTED IN COLOR

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EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

EARTHQUAKE

- MAGNITUDE 7+
- MAGNITUDE 6-7
- MAGNITUDE 5-6

QUATERNARY FAULTS 2020

BASED ON TIME OF MOST RECENT SURFACE DEFORMATION

- HISTORICAL (<150 YEARS), WELL CONSTRAINED LOCATION
- HISTORICAL (<150 YEARS), MODERATELY CONSTRAINED LOCATION
- HISTORICAL (<150 YEARS), INFERRED LOCATION
- LATEST QUATERNARY (<15,000 YEARS), WELL CONSTRAINED LOCATION
- LATEST QUATERNARY (<15,000 YEARS), MODERATELY CONSTRAINED LOCATION
- LATEST QUATERNARY (<15,000 YEARS), INFERRED LOCATION
- LATE QUATERNARY (<130,000 YEARS), WELL CONSTRAINED LOCATION
- LATE QUATERNARY (<130,000 YEARS), MODERATELY CONSTRAINED LOCATION
- LATE QUATERNARY (<130,000 YEARS), INFERRED LOCATION
- UNDIFFERENTIATED QUATERNARY(<1.6 MILLION YEARS), WELL CONSTRAINED LOCATION
- UNDIFFERENTIATED QUATERNARY(<1.6 MILLION YEARS), MODERATELY CONSTRAINED LOCATION
- UNDIFFERENTIATED QUATERNARY(<1.6 MILLION YEARS), INFERRED LOCATION
- GREAT VALLEY FAULT ZONE

BASE MAP SOURCE
ESRI, GEBCO, DELORME, NATURALVUE
COLOR HILLSHADE IMAGE BASED ON THE NATIONAL ELEVATION DATA SET (NED) AT 30 METER RESOLUTION
U.S.G.S. QUATERNARY FAULT DATABASE, 2020
U.S.G.S. HISTORIC EARTHQUAKE DATABASE (1800-PRESENT)
U.S.G.S OPEN-FILE REPORT 96-705

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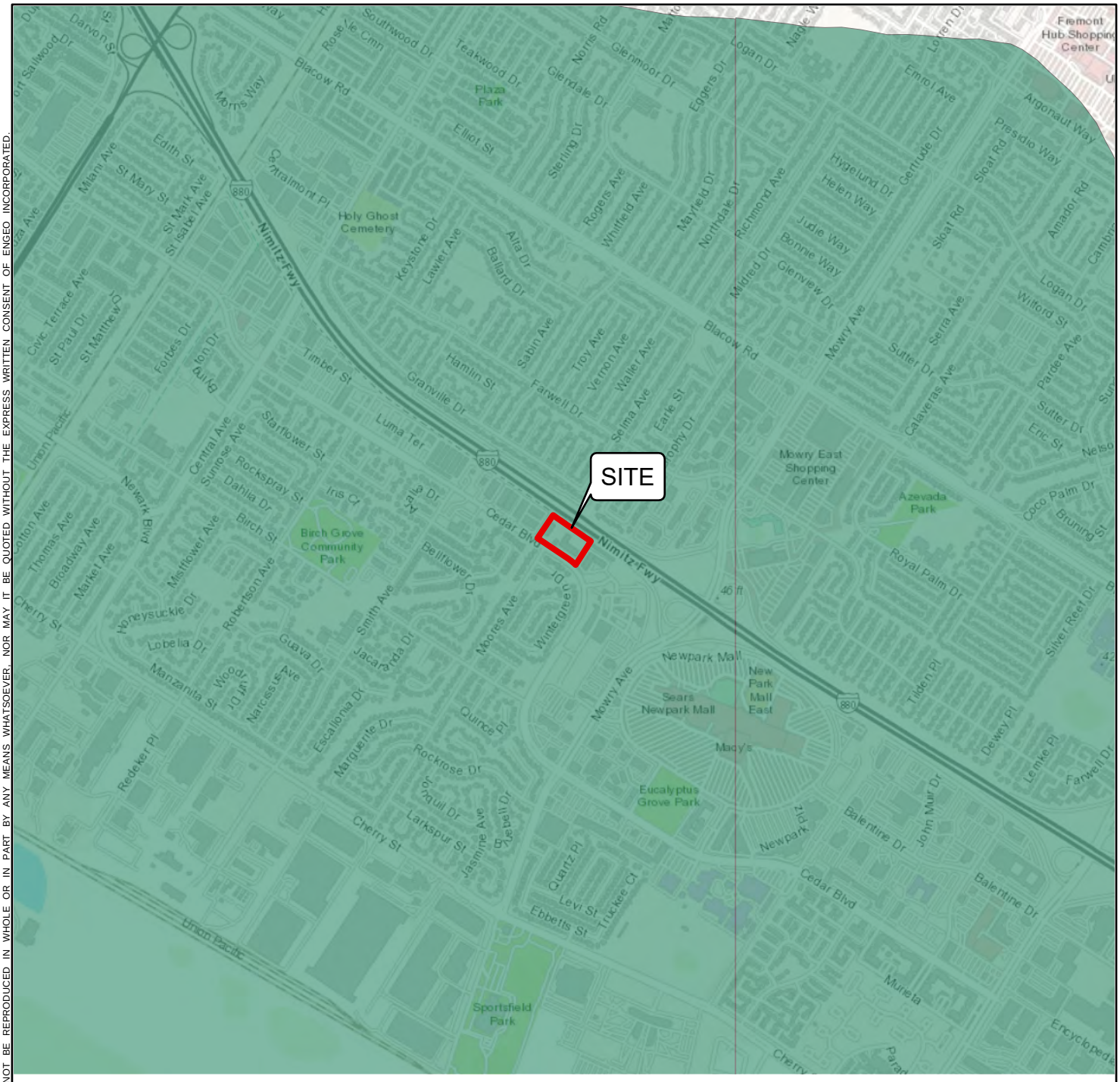
REGIONAL FAULTING AND SEISMICITY
38600 CEDAR BOULEVARD
NEWARK, CALIFORNIA

PROJECT NO. :	15799.004.000
SCALE:	AS SHOWN
DRAWN BY: SPPE	CHECKED BY:SPM

FIGURE NO. 6

PATH: G:\DRAFTING\PROJECTS\ 14000 TO 15999\15799\15799001000\GEOTECH\GEX\15799_GEX.APRX
LAYOUT: FAULT&SEISMICITY1 USER: QLIANG

ORIGINAL FIGURE PRINTED IN COLOR



EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

LIQUEFACTION ZONE
AREAS WHERE HISTORICAL OCCURENCE OF LIQUEFACTION, OR LOCAL GEOLOGICAL, GEOTEHNICAL AND GROUND WATER CONDITIONS INDICATE A POTENTIAL L FOR PERMANENT GROUND DISPLACEMENTS SUCH THAT MITIGATION AS DEFINED IN PUBLIC RESOURCES CODE SECTION 2693(C) WOULD BE REQUIRED

BASEMAP SOURCE: ESRI MAPPING SERVICE
CALIFORNIA DEPARTMENT OF CONSERVATION, CALIFORNIA GEOLOGICAL SURVEY

ENGEO Expect Excellence

SEISMIC HAZARDS ZONE MAP

38600 CEDAR BOULEVARD
NEWARK, CALIFORNIA

PROJECT NO. :	15799.004.000
SCALE:	AS SHOWN
DRAWN BY: JV	CHECKED BY: MT

FIGURE NO. 7

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PATH: G:\DRAFTING\PROJECTS_14000 TO 15999\15799\15799001000\GEOTECH FIGURES\FIGURE EXAMPLE
LAYOUT: SEISMIC HAZARD USER: QLIANG

ORIGINAL FIGURE PRINTED IN COLOR



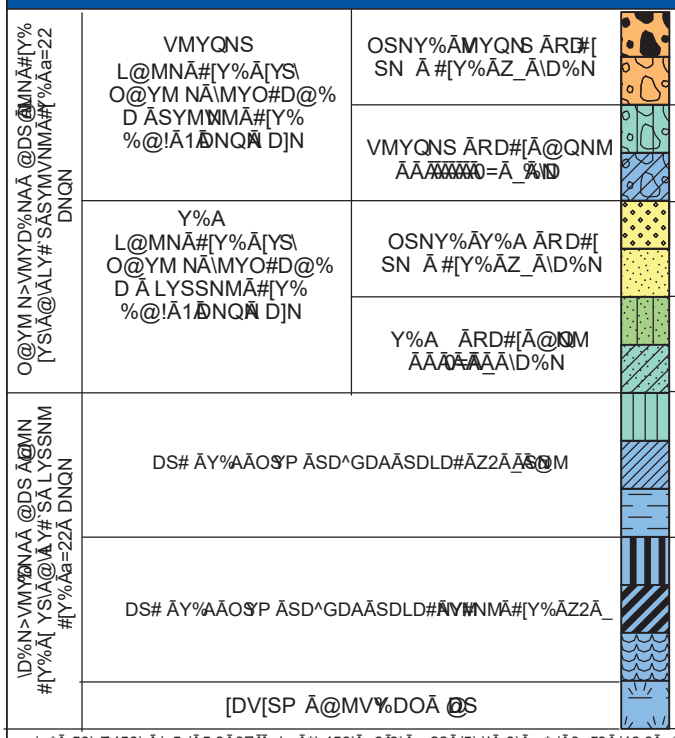
APPENDIX A

KEY TO BORING LOGS
EXPLORATION LOGS

KEY TO BORING LOGS

MAJOR TYPES

DESCRIPTION



GRAIN SIZES

U.S. STANDARD SERIES SIEVE SIZE

CLEAR SQUARE SIEVE OPENINGS

200	40	10	4	3/4 "	3"	12"

DS# Y%A OSYP	Y%A			VMYQNS		O@TTSN	T@GSANM
	\D%N	LNADGL	O@YM N	\D%N	O@YM N		

MNSY#QNĀA% D#P

Y%A ĀY%AĀMYQNS	TS@R B\@@# Ā !"!#!$
QNMPĀS@@ N	2>1
S@@ N	1>02
LNĀDGLĀAN% N	02>82
AN% N	82>Z2
QNMPĀAN% N	@QNMĀZ2

O@% D#N%OP

DS# ĀY%AĀOSYP	#MN%V#[F
QNMPĀ@\#	2>0B1
@\#	0B1>0B=
LNADGLĀ #D\\	0B=>0
#D\\	0>=
QNMPĀ#D\\	=>1
[YMA	@QNMĀ1

YL"S NMĀ PLT@S

L@D #GMNĀO@AD#D@%

AMP L@D # RN#

SD%NĀ#P"N

UĀUĀUĀUĀUĀU

VM@G%ARY#NMĀ PLT @S



%M



LOG OF BORING 2-B1

ENGEO Expect Excellence

LATITUDE: 37.53128 LONGITUDE: -122.00717

Geotechnical Exploration
38600 Cedar Blvd.
Newark, CA
15799.004.000

DATE DRILLED: 8/23/2022
HOLE DEPTH: Approx. 26½ ft.
HOLE DIAMETER: 5.0 in.
SURF ELEV (WGS84): Approx. 34 ft.

LOGGED / REVIEWED BY: K. Krisan / MT
DRILLING CONTRACTOR: Geo-Ex Subsurface
DRILLING METHOD: Solid Flight Auger
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Shear Strength (psf) *field approximation	Unconfined Strength (tsf) *field approximation	Strength Test Type
			3 inches of Asphalt												
			5 inches of Aggregate Base												
			LEAN CLAY WITH SAND (CL), dark brown mottled with black, very stiff, moist, high plasticity, contains coarse-grained sand and fine gravel [FILL]												
			CLAY (CL), dark brown, hard, moist, [Qal]			26	33	15	18	74				4.5*	PP
	30														
5			Some fine-grained sand												
						17									
			CLAYEY SAND (SC), brown, medium dense, moist, fine-grained sand												
			POORLY GRADED SAND WITH CLAY (SP-SC), dark yellowish brown, loose to medium dense, moist, fine-grained sand			10									
	25		SILTY SAND (SM), dark yellowish brown, loose, moist, fine-grained sand												
10						8				19	7.1				
	20														
15					▽	12					21.2				
			Dark olive brown, wet, fine- to medium-grained sand												
	15														
20															

LOG - GEOTECHNICAL_SU+QU W/ ELEV BORING GINT LOGS.GPJ ENGEO INC.GDT 1/31/23

LOG OF BORING 2-B1

Expect Excellence

LATITUDE: 37.53128 LONGITUDE: -122.00717

Geotechnical Exploration
38600 Cedar Blvd.
Newark, CA
15799.004.000

DATE DRILLED: 8/23/2022
HOLE DEPTH: Approx. 26½ ft.
HOLE DIAMETER: 5.0 in.
SURF ELEV (WGS84): Approx. 34 ft.

LOGGED / REVIEWED BY: K. Krisan / MT
DRILLING CONTRACTOR: Geo-Ex Subsurface
DRILLING METHOD: Solid Flight Auger
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Shear Strength (psf) *field approximation	Unconfined Strength (tsf) *field approximation	Strength Test Type
			SILTY SAND (SM), dark olive brown, loose to medium dense, wet, fine- to medium-grained sand			6				17	17.7				
	10		POORLY GRADED SAND WITH SILT (SP-SM), dark yellowish brown, medium dense, moist, fine- to medium-grained sand												
25						26									
			SILTY SAND (SM), olive brown, medium dense, moist, fine-grained sand, contains iron-oxide staining												
			Boring terminated at 26½ feet below ground surface (bgs). Groundwater encountered at 16 feet bgs at time of drilling.												

LOG - GEOTECHNICAL_SU+QU W/ ELEV BORING GINT LOGS.GPJ ENGEO INC.GDT 1/31/23

LOG OF BORING 2-B2

LATITUDE: 37.53207 LONGITUDE: -122.00792

Geotechnical Exploration
38600 Cedar Blvd.
Newark, CA
15799.004.000

DATE DRILLED: 8/23/2022
HOLE DEPTH: Approx. 30 ft.
HOLE DIAMETER: 5.0 in.
SURF ELEV (WGS84): Approx. 32 ft.

LOGGED / REVIEWED BY: K. Krisan / MT
DRILLING CONTRACTOR: Geo-Ex Subsurface
DRILLING METHOD: Solid Flight Auger
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Shear Strength (psf) *field approximation	Unconfined Strength (tsf) *field approximation	Strength Test Type
			4 inches of Aggregate Base												
			LEAN CLAY WITH SAND (CL), very dark grayish brown mottled with reddish brown, medium stiff, moist, medium plasticity, fine-grained sand, contains fine gravel [FILL]												
	30					11				91	18.8	106.4		0.83	UC
			Black mottled with reddish brown												
5															
			SANDY LEAN CLAY (CL), very dark grayish brown mottled with reddish brown, very stiff, moist, medium plasticity, fine-grained sand [Qal]			28								1.5* 3.5*	PP PP
	25														
			FAT CLAY (CH), olive with light gray, hard, moist, high plasticity												
10						21					18.8	106.3		4.25*	PP
			SILTY SAND (SM), very dark grayish brown mottled with dark olive, loose, wet, fine-grained sand		▽	8	17	16	1	27					
15															
			POORLY GRADED SAND WITH CLAY (SP-SC), very dark grayish brown, very loose, wet, fine- to medium-grained sand, gradational contact with overlying unit			11									
	15														
			CLAYEY SAND (SC), olive, medium dense, moist, fine-grained sand, interlayered with sandy lean clay (CL), contains iron-oxide staining												
20															

LOG - GEOTECHNICAL_SU+QU W/ ELEV BORING GINT LOGS.GPJ ENGEO INC.GDT 1/31/23

LOG OF BORING 2-B2

LATITUDE: 37.53207 LONGITUDE: -122.00792

Geotechnical Exploration
38600 Cedar Blvd.
Newark, CA
15799.004.000

DATE DRILLED: 8/23/2022
HOLE DEPTH: Approx. 30 ft.
HOLE DIAMETER: 5.0 in.
SURF ELEV (WGS84): Approx. 32 ft.

LOGGED / REVIEWED BY: K. Krisan / MT
DRILLING CONTRACTOR: Geo-Ex Subsurface
DRILLING METHOD: Solid Flight Auger
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Shear Strength (psf) *field approximation	Unconfined Strength (tsf) *field approximation	Strength Test Type
			CLAYEY SAND (SC), olive, medium dense, moist, fine-grained sand, interlayered with sandy lean clay (CL), contains iron-oxide staining			30	33	19	14	29	18.3				
	10		Medium- to coarse-grained, fines content decreases, trace fine gravel			22									
25			4 inch interlayer of sandy silt to silty sand			28									
	5														
			SILTY SAND (SM), olive, medium dense, moist, fine-grained sand, grades to elastic silt with sand (MH), bluish gray, stiff, moist, low plasticity			26									
30			Boring terminated at 30 feet below ground surface (bgs). Groundwater encountered at 14½ feet bgs at time of drilling.												

LOG - GEOTECHNICAL_SU+QU W/ ELEV BORING GINT LOGS.GPJ ENGEO INC.GDT 1/31/23

LOG OF BORING 2-B3

LATITUDE: 37.53178 LONGITUDE: -122.00733

Geotechnical Exploration
38600 Cedar Blvd.
Newark, CA
15799.004.000

DATE DRILLED: 8/22/2022
HOLE DEPTH: Approx. 115 ft.
HOLE DIAMETER: 5.0 in.
SURF ELEV (WGS84): Approx. 34 ft.
LOGGED / REVIEWED BY: K. Krisan / MT
DRILLING CONTRACTOR: Geo-Ex Subsurface
DRILLING METHOD: Mud Rotary
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Shear Strength (psf) *field approximation	Unconfined Strength (tsf) *field approximation	Strength Test Type
			4 inches of Aggregate Base												
			LEAN CLAY (CL), grayish green mottled with black, hard, moist, medium plasticity, fine-grained sand [FILL]												
						34	35	15	20	91				>4.5*	PP
			brown with very dark brown												
	30														
5			LEAN CLAY (CL), dark grayish brown, moist, fine-grained sand, contains organics [Qal]												
						14				91	19.6	94.8		1.27	UC
			bluish gray												
			LEAN CLAY WITH GRAVEL (CL), dark brown, stiff, moist, medium plasticity, coarse gravel			14									
	25														
10			LEAN CLAY (CL), light greenish gray mottled with yellowish brown, hard, moist, medium plasticity, fine-grained, contains decomposed rootlets and iron-oxide staining			29								>4.5*	PP
			ELASTIC SILT WITH SAND (MH), light greenish gray mottled with yellowish brown, very stiff to hard, moist, low plasticity, fine-grained sand												
	20														
15			sand content increases												
			LEAN CLAY (CL), olive mottled with greenish gray, stiff, moist, medium plasticity, trace fine-grained sand			15								1.25*	PP
	15														
			SANDY LEAN CLAY (CL), dark olive, stiff to very stiff, moist, fine-grained sand												
20															

LOG - GEOTECHNICAL_SU+QU W/ ELEV BORING GINT LOGS.GPJ ENGEO INC.GDT 1/31/23

LOG OF BORING 2-B3

Expect Excellence

LATITUDE: 37.53178 LONGITUDE: -122.00733

Geotechnical Exploration
38600 Cedar Blvd.
Newark, CA
15799.004.000

DATE DRILLED: 8/22/2022
HOLE DEPTH: Approx. 115 ft.
HOLE DIAMETER: 5.0 in.
SURF ELEV (WGS84): Approx. 34 ft.

LOGGED / REVIEWED BY: K. Krisan / MT
DRILLING CONTRACTOR: Geo-Ex Subsurface
DRILLING METHOD: Mud Rotary
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Shear Strength (psf) *field approximation	Unconfined Strength (tsf) *field approximation	Strength Test Type
			SANDY LEAN CLAY (CL), dark olive, stiff to very stiff, moist, fine-grained sand interlayer of sandy lean clay (CL)			21				61				2*	PP
			POORLY GRADED SAND WITH CLAY (SP-SC), dark olive gray, medium dense, moist, fine- to medium-grained sand												
25	10					19									
			medium dense, trace fine gravel, sub-rounded			17				12					
30	5		dark olive with dark bluish gray			16									
			ELASTIC SILT (MH), bluish gray, soft to stiff, moist, low plasticity, trace fine-grained sand and decomposed woody debris												
35	0		LEAN CLAY (CL), bluish gray, stiff, moist, medium plasticity, trace fine-grained sand, contains peat			8								0.30*	TV
40	-5														

LOG - GEOTECHNICAL_SU+QU W/ ELEV BORING GINT LOGS.GPJ ENGEO INC.GDT 1/31/23

LOG OF BORING 2-B3

ENGEO Expect Excellence

LATITUDE: 37.53178 LONGITUDE: -122.00733

Geotechnical Exploration
38600 Cedar Blvd.
Newark, CA
15799.004.000

DATE DRILLED: 8/22/2022 LOGGED / REVIEWED BY: K. Krisan / MT
HOLE DEPTH: Approx. 115 ft. DRILLING CONTRACTOR: Geo-Ex Subsurface
HOLE DIAMETER: 5.0 in. DRILLING METHOD: Mud Rotary
SURF ELEV (WGS84): Approx. 34 ft. HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Shear Strength (psf) *field approximation	Unconfined Strength (tsf) *field approximation	Strength Test Type
			LEAN CLAY (CL), bluish gray, stiff, moist, medium plasticity, trace fine-grained sand, contains peat			11								1.75*	PP
	-10		sand content increases												
45			FAT CLAY (CH), bluish gray, very stiff, moist, high plasticity, contains iron-oxide staining			38								3.5*	PP
			contains gravel												
	-15		POORLY GRADED SAND WITH SILT (SP-SM), dark yellowish brown, medium dense, moist, fine- to coarse-grained sand												
50						59									
			contains fine gravel, sub-angular to sub-rounded, coarsening downwards												
						23									
			interlayer of fine gravel, sub-angular to sub-rounded												
	-20														
55															
	-25														
60															

LOG - GEOTECHNICAL_SU+QU W/ ELEV BORING GINT LOGS.GPJ ENGEO INC.GDT 1/31/23

LOG OF BORING 2-B3

Expect Excellence

LATITUDE: 37.53178 LONGITUDE: -122.00733

Geotechnical Exploration
38600 Cedar Blvd.
Newark, CA
15799.004.000

DATE DRILLED: 8/22/2022
HOLE DEPTH: Approx. 115 ft.
HOLE DIAMETER: 5.0 in.
SURF ELEV (WGS84): Approx. 34 ft.

LOGGED / REVIEWED BY: K. Krisan / MT
DRILLING CONTRACTOR: Geo-Ex Subsurface
DRILLING METHOD: Mud Rotary
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Shear Strength (psf) *field approximation	Unconfined Strength (tsf) *field approximation	Strength Test Type
			WELL-GRADED GRAVEL WITH SAND AND CLAY (GW-GC), yellowish brown, dense, wet, fine to coarse, sub-angular to sub-rounded gravel, fine- to coarse-grained sand			49									
65	-30														
						35									
70	-35		POORLY GRADED SAND (SP), olive gray, very dense, wet, fine- to coarse-grained sand												
75	-40		POORLY GRADED GRAVEL WITH CLAY AND SAND (GP-GC), yellowish brown, very dense, moist, fine, sub-angular to rounded gravel, fine- to coarse-grained sand			59									
80	-45														

LOG - GEOTECHNICAL_SU+QU W/ ELEV BORING GINT LOGS.GPJ ENGEO INC.GDT 1/31/23

LOG OF BORING 2-B3

ENGEO Expect Excellence

LATITUDE: 37.53178 LONGITUDE: -122.00733

Geotechnical Exploration
38600 Cedar Blvd.
Newark, CA
15799.004.000

DATE DRILLED: 8/22/2022
HOLE DEPTH: Approx. 115 ft.
HOLE DIAMETER: 5.0 in.
SURF ELEV (WGS84): Approx. 34 ft.

LOGGED / REVIEWED BY: K. Krisan / MT
DRILLING CONTRACTOR: Geo-Ex Subsurface
DRILLING METHOD: Mud Rotary
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Shear Strength (psf) *field approximation	Unconfined Strength (tsf) *field approximation	Strength Test Type
			POORLY GRADED GRAVEL WITH SAND AND SILT (GP-GM), olive, very dense, moist, fine to coarse, sub-angular to rounded gravel, fine- to coarse-grained sand												
	-50														
85						67									
	-55		POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), olive, very dense, moist, fine to coarse, sub-angular to rounded gravel, fine- to coarse-grained sand												
90															
	-60														
95						85									
	-65														
100															

LOG - GEOTECHNICAL_SU+QU W/ ELEV BORING GINT LOGS.GPJ ENGEO INC.GDT 1/31/23

LOG OF BORING 2-B3

Expect Excellence

LATITUDE: 37.53178 LONGITUDE: -122.00733

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38600 Cedar Blvd.
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SURF ELEV (WGS84): Approx. 34 ft.

LOGGED / REVIEWED BY: K. Krisan / MT
DRILLING CONTRACTOR: Geo-Ex Subsurface
DRILLING METHOD: Mud Rotary
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Shear Strength (psf) *field approximation	Unconfined Strength (tsf) *field approximation	Strength Test Type
			POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), olive, very dense, moist, fine to coarse, sub-angular to rounded gravel, fine- to coarse-grained sand												
	-70		LEAN CLAY WITH SAND (CL), olive gray, moist, medium plasticity, fine-grained sand												
105															
	-75														
110															
	-80														
115			Boring terminated at 115 feet below ground surface. Groundwater depth not determined due to drilling method.												

LOG - GEOTECHNICAL_SU+QU W/ ELEV BORING GINT LOGS.GPJ ENGEO INC.GDT 1/31/23

PRESENTATION OF SITE INVESTIGATION RESULTS

Cedar Blvd

Prepared for:

ENGEO Incorporated

ConeTec Job No: 22-56-24946

Project Start Date: 18-Oct-2022
Project End Date: 18-Oct-2022
Report Date: 19-Oct-2022

Prepared by:

ConeTec Inc.

820 Aladdin Avenue, San Leandro, CA 94577

Tel: (510) 357-3677

ConeTecCA@conetec.com

www.conetec.com
www.conetecdataservices.com



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ABOUT THIS REPORT

The enclosed report presents the results of the site investigation program conducted by ConeTec Inc. The program consisted of Piezocone Penetration Testing and Pore Pressure Dissipation Testing. Please note that this report, which also includes all accompanying data, are subject to the 3rd Party Disclaimer and Client Disclaimer that follow in the 'Limitations' section of this report.

Project Information

Client	ENGEO Incorporated
Project	Cedar Blvd
ConeTec Project Number	22-56-24946
Rig Description	30-ton Truck CPT Rig (C-17)

Coordinates

Collection Method	Consumer Grade GPS
EPSG Number	32610 (WGS 84 / UTM 10S)

Cone Penetration Test (CPTu)

Depth Reference	Existing ground surface at the time of the investigation
Sleeve data offset	0.1 Meters

Calculated Geotechnical Parameters Tables

Additional Information

The Normalized Soil Behaviour Type Chart based on Q_{tn} (SBT Q_{tn}) (Robertson, 2009) was used to classify the soil for this project. A detailed set of calculated CPTu parameters have been generated and are provided in Excel format files in the release folder. The CPTu parameter calculations are based on values of corrected tip resistance (q_t) sleeve friction (f_s) and pore pressure (u_2).

Effective stresses are calculated based on unit weights that have been assigned to the individual soil behaviour type zones and the assumed equilibrium pore pressure profile.

Soils were classified as either drained or undrained based on the Q_{tn} Normalized Soil Behaviour Type Chart (Robertson, 2009). Calculations for both drained and undrained parameters were included for materials that classified as silt mixtures (zone 4).

Please refer to the list of attached documents following the text of this report. A test summary, location map, and plots are included. Thank you for the opportunity to work on this project.

LIMITATIONS

3rd Party Disclaimer

- The “Report” refers to this report titled Cedar Blvd
- The Report was prepared by ConeTec for ENGEO Incorporated

The Report is confidential and may not be distributed to or relied upon by any third parties without the express written consent of ConeTec. Any third parties gaining access to the Report do not acquire any rights as a result of such access. Any use which a third party makes of the Report, or any reliance on or decisions made based on it, are the responsibility of such third parties. ConeTec accepts no responsibility for loss, damage and/or expense, if any, suffered by any third parties as a result of decisions made, or actions taken or not taken, which are in any way based on, or related to, the Report or any portion(s) thereof.

Client Disclaimer

- ConeTec was retained by ENGEO Incorporated
- The “Report” refers to this report titled Cedar Blvd
- ConeTec was retained to collect and provide the raw data (“Data”) which is included in the Report.

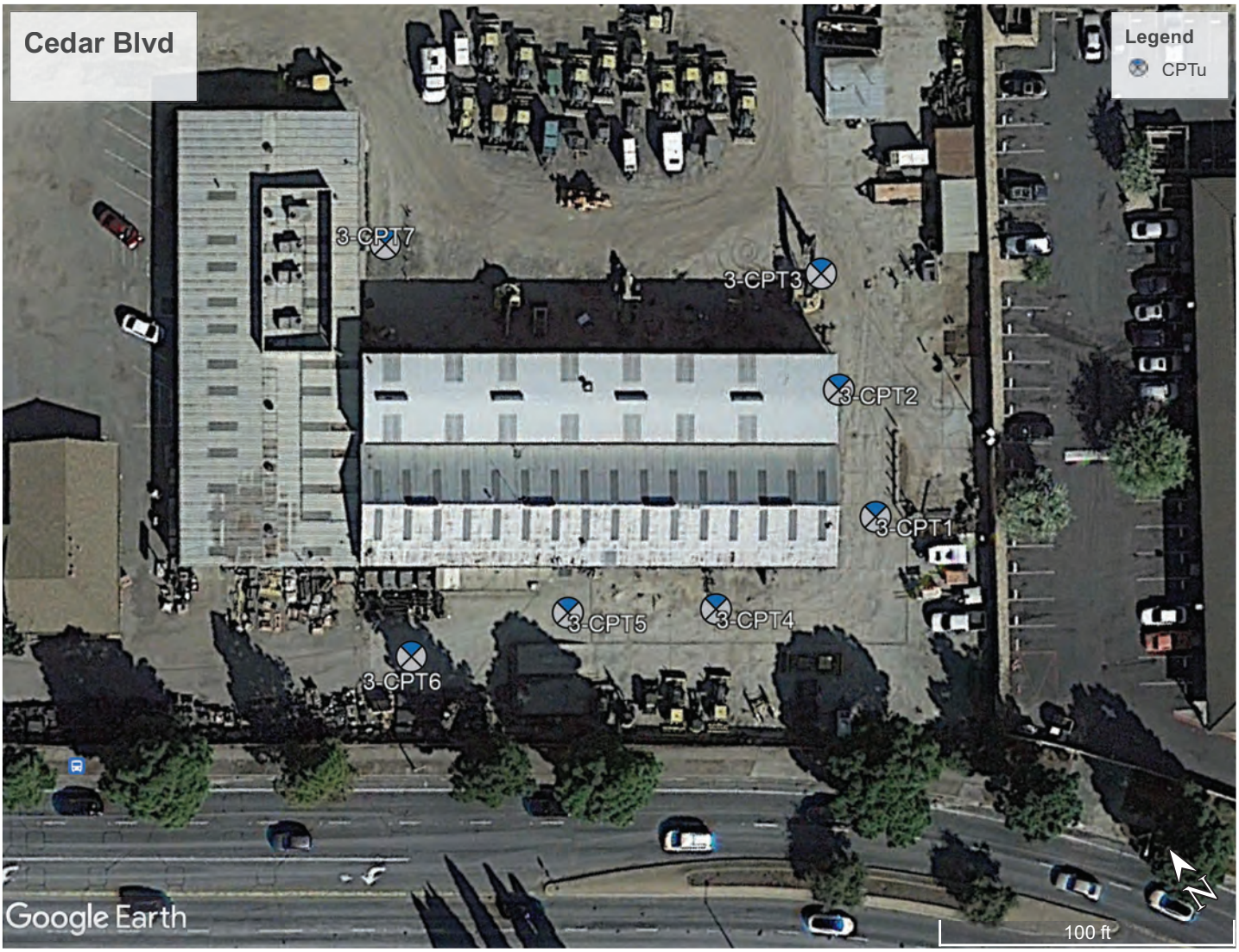
ConeTec has collected and reported the Data in accordance with current industry standards. No other warranty, express or implied, with respect to the Data is made by ConeTec. In order to properly understand the Data included in the Report, reference must be made to the documents accompanying and other sources referenced in the Report in their entirety. Other than the Data, the contents of the Report (including any Interpretations) should not be relied upon in any fashion without independent verification and ConeTec is in no way responsible for any loss, damage or expense resulting from the use of, and/or reliance on, such material by any party.

CONTENTS

The following listed below are included in the report:

- Site Map
- Cone Penetration Test Summary and Standard Cone Penetration Test Plots
- Advanced Cone Penetration Test Plots
- Soil Behavior Type (SBT) Scatter Plots
- Pore Pressure Dissipation Summary and Pore Pressure Dissipation (PPD) Test Plots
- Methodology Statements
- Data File Formats
- Description for Methods for Calculated CPT Geotechnical Parameters

SITE MAP



ConeTec Job Number: 22-56-24946

Client: ENGEO Incorporated

Project: Cedar Blvd

Report Date: 19-Oct-2022

Sounding Location

All sounding locations are approximate

Cone Penetration Test Summary and Standard Cone Penetration Test Plots

Job No:	22-56-24946
Client:	ENGEO Incorporated
Project:	Cedar Blvd
Start Date:	18-Oct-2022
End Date:	18-Oct-2022

CONE PENETRATION TEST SUMMARY

Sounding ID	File Name	Date	Cone	Cone Area (cm^2)	Assumed Phreatic Surface[1] (ft)	Final Depth (ft)	Northing[2] (m)	Easting[2] (m)	Elevation[3] (ft)	Refer to Notation Number
3-CPT1	22-56-24946_CP01	18-Oct-2022	813:T1500F15U35	15	12.6	50.85	4154279	587730	34	
3-CPT2	22-56-24946_CP02	18-Oct-2022	813:T1500F15U35	15	11.5	50.93	4154292	587734	34	
3-CPT3	22-56-24946_CP03	18-Oct-2022	813:T1500F15U35	15	15.1	50.93	4154303	587739	33	
3-CPT4	22-56-24946_CP04	18-Oct-2022	813:T1500F15U35	15	15.0	32.32	4154280	587711	34	4
3-CPT5	22-56-24946_CP05	18-Oct-2022	813:T1500F15U35	15	14.9	50.85	4154288	587698	34	
3-CPT6	22-56-24946_CP06	18-Oct-2022	813:T1500F15U35	15	14.4	50.85	4154293	587682	33	
3-CPT7	22-56-24946_CP07	18-Oct-2022	813:T1500F15U35	15	13.8	50.93	4154330	587703	34	

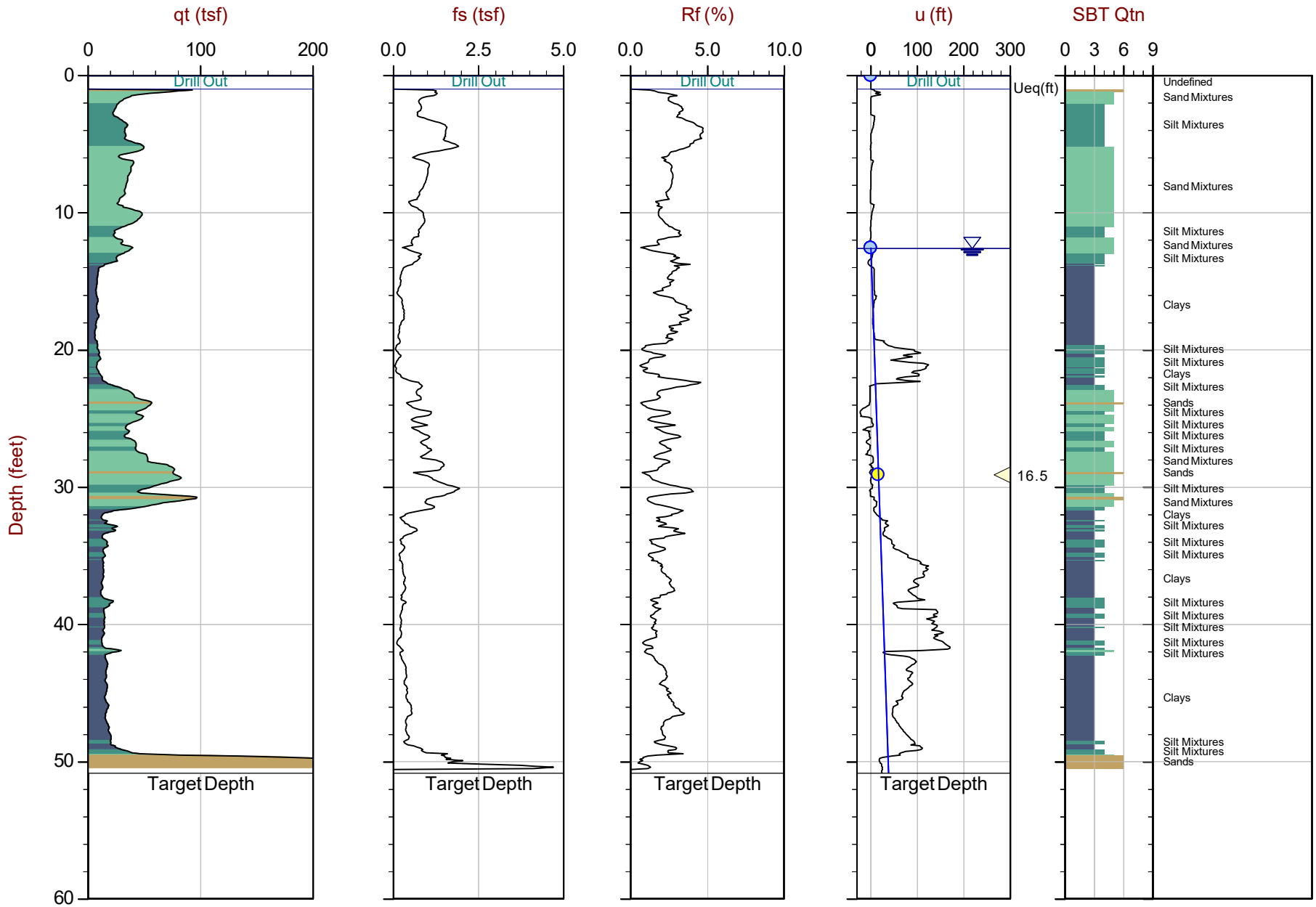
1. The assumed phreatic surface was based on pore pressure dissipation tests, unless otherwise noted. Hydrostatic conditions were assumed for the calculated parameters.
2. The coordinates were collected using consumer grade GPS equipment. EPSG number: 32610 (WGS84 / UTM Zone 10S).
3. Elevations are referenced to the ground surface and were acquired from the Google Earth Elevation for the recorded coordinates.
4. The assumed phreatic surface was based on the dynamic pore pressure response.

CONETEC

ENGEO

Job No: 22-56-24946
Date: 2022-10-18 12:29
Site: Cedar Blvd, Newark

Sounding: 3-CPT1
Cone: 813:T1500F15U35



Max Depth: 15.500 m / 50.85 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 22-56-24946_CP01.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: UTM 10S N: 4154279m E: 587730m

Equilibrium Pore Pressure (Ueq) | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Hydrostatic Line

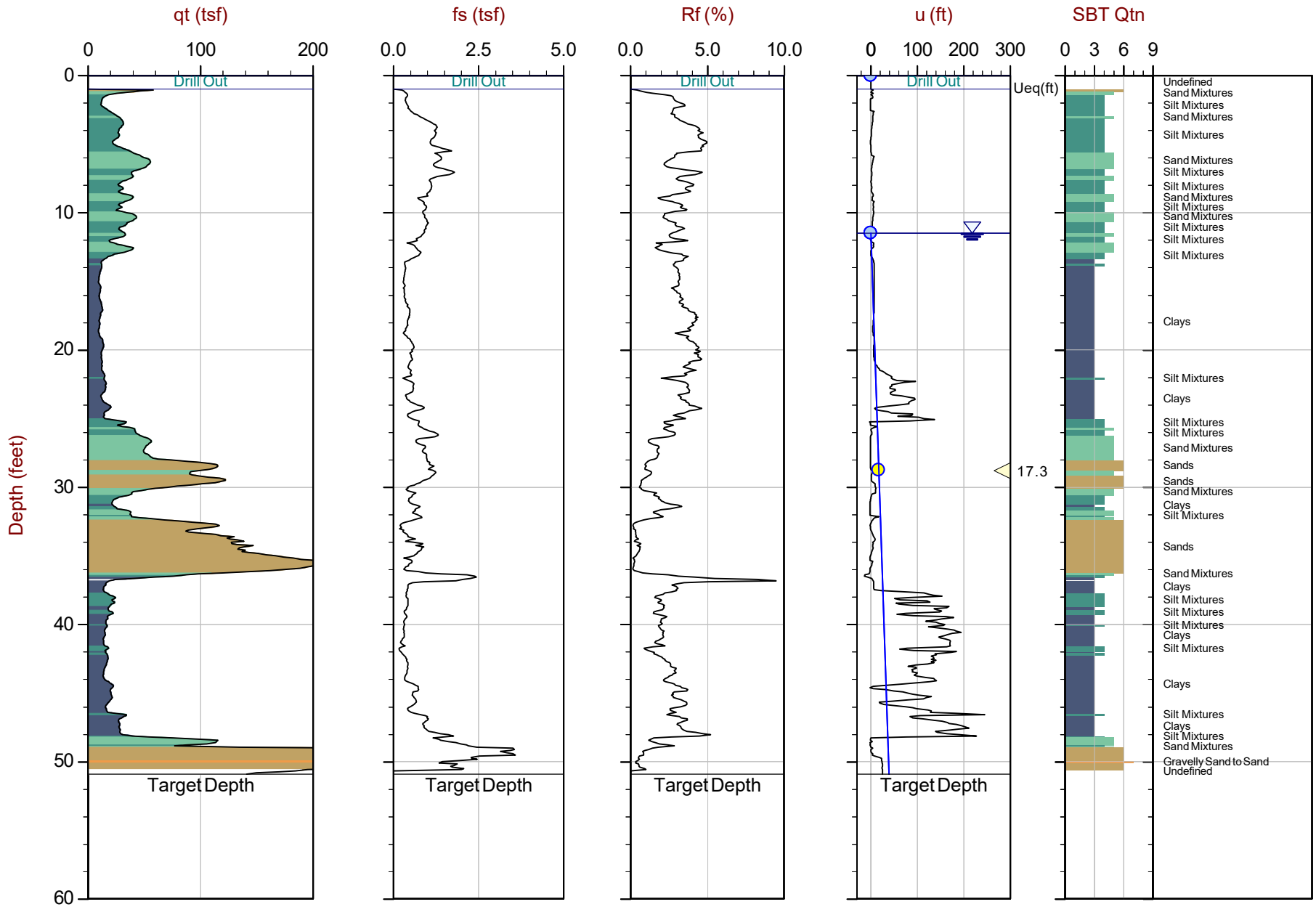
The reported coordinates were acquired from hand-held GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

ENGEO

Job No: 22-56-24946
Date: 2022-10-18 11:15
Site: Cedar Blvd, Newark

Sounding: 3-CPT2
Cone: 813:T1500F15U35



Max Depth: 15.525 m / 50.93 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 22-56-24946_CP02.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: UTM 10S N: 4154292m E: 587734m

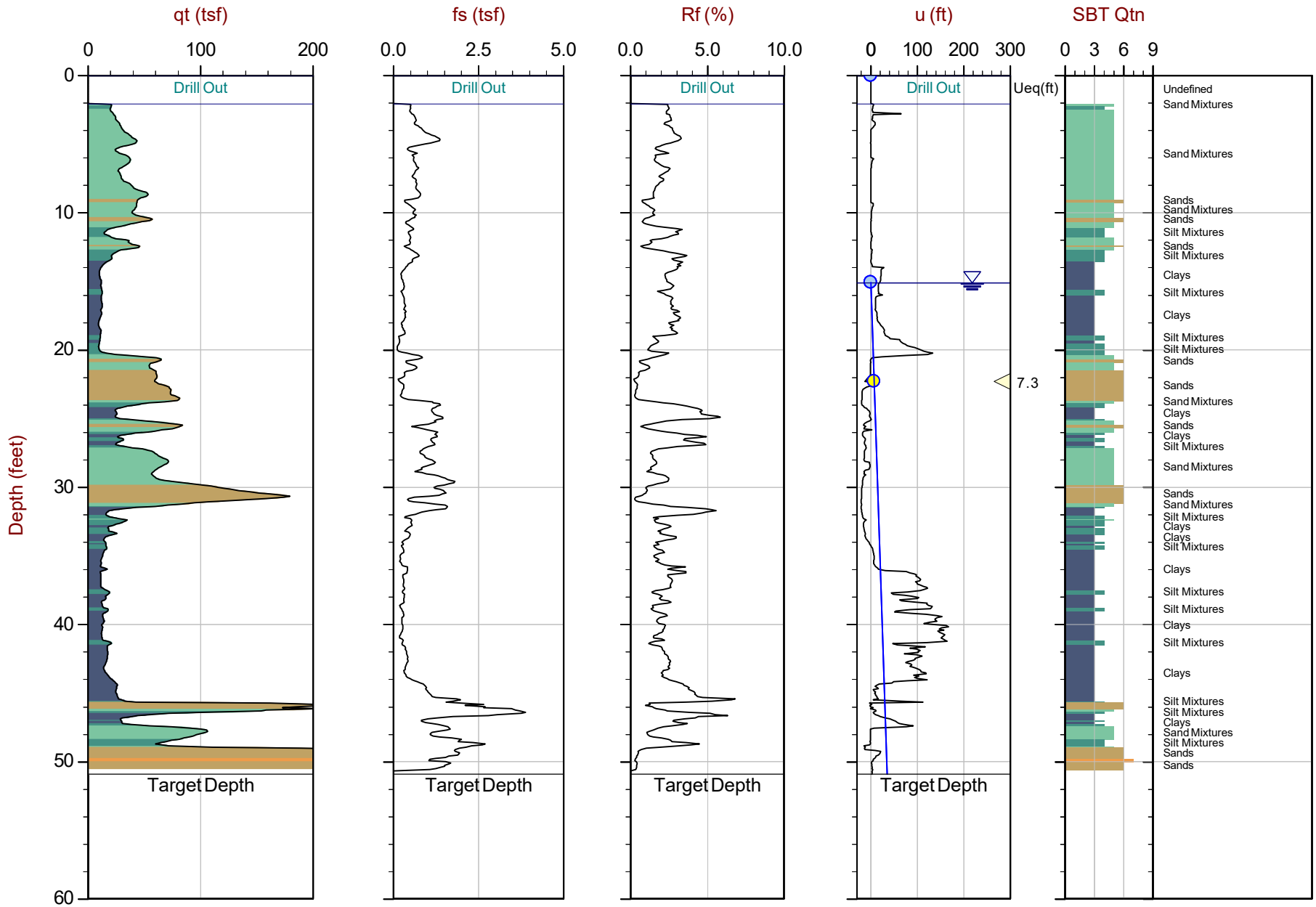
Equilibrium Pore Pressure (Ueq) | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Hydrostatic Line

The reported coordinates were acquired from hand-held GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

ENGEO

Job No: 22-56-24946
Date: 2022-10-18 10:18
Site: Cedar Blvd, Newark

Sounding: 3-CPT3
Cone: 813:T1500F15U35



Max Depth: 15.525 m / 50.93 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 22-56-24946_CP03.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: UTM 10S N: 4154303m E: 587739m

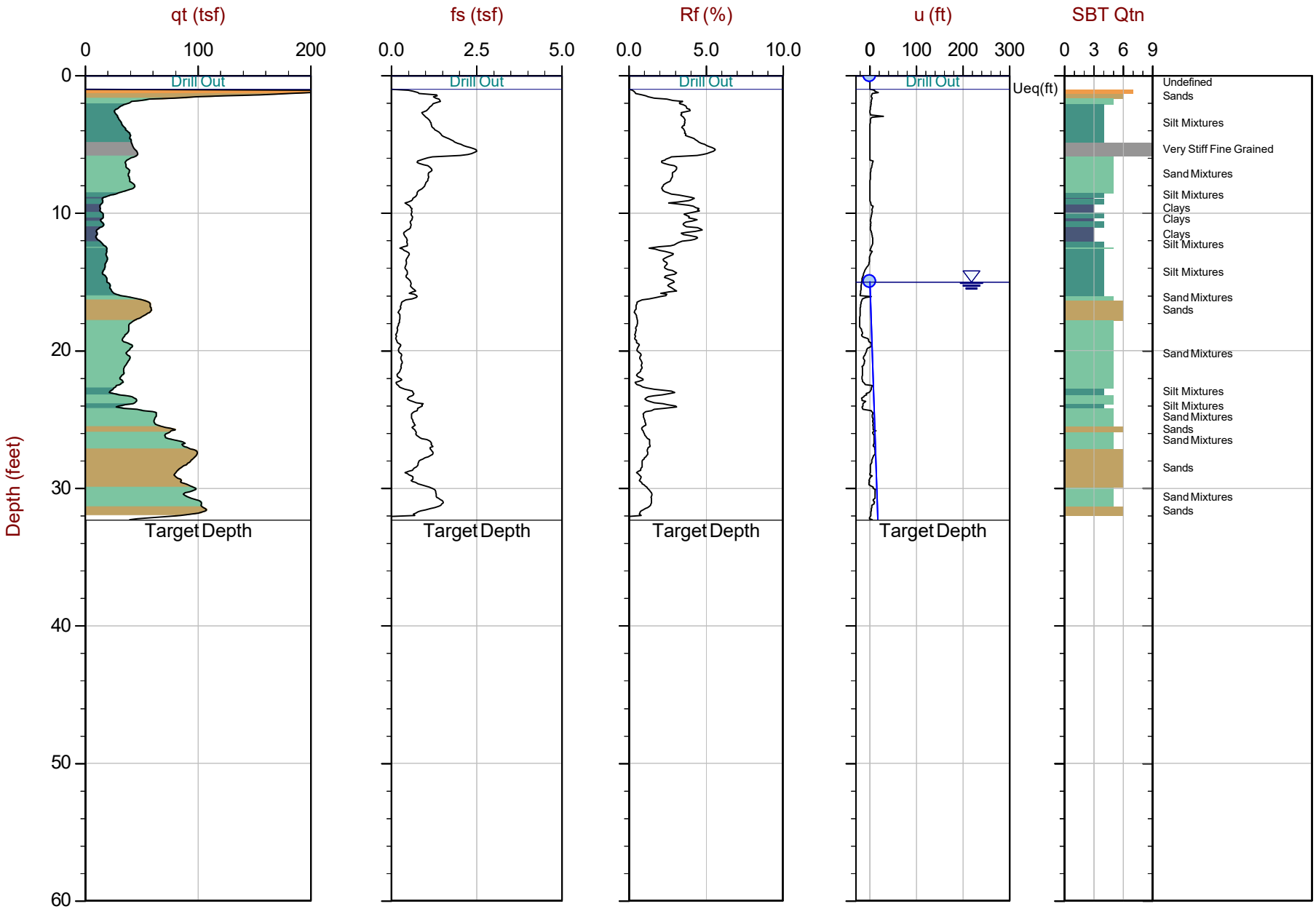
Equilibrium Pore Pressure (Ueq) | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Hydrostatic Line

The reported coordinates were acquired from hand-held GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

ENGEO

Job No: 22-56-24946
Date: 2022-10-18 15:53
Site: Cedar Blvd, Newark

Sounding: 3-CPT4
Cone: 813:T1500F15U35



Max Depth: 9.850 m / 32.32 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 22-56-24946_CP04.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: UTM 10S N: 4154280m E: 587711m

Equilibrium Pore Pressure (Ueq) | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Hydrostatic Line

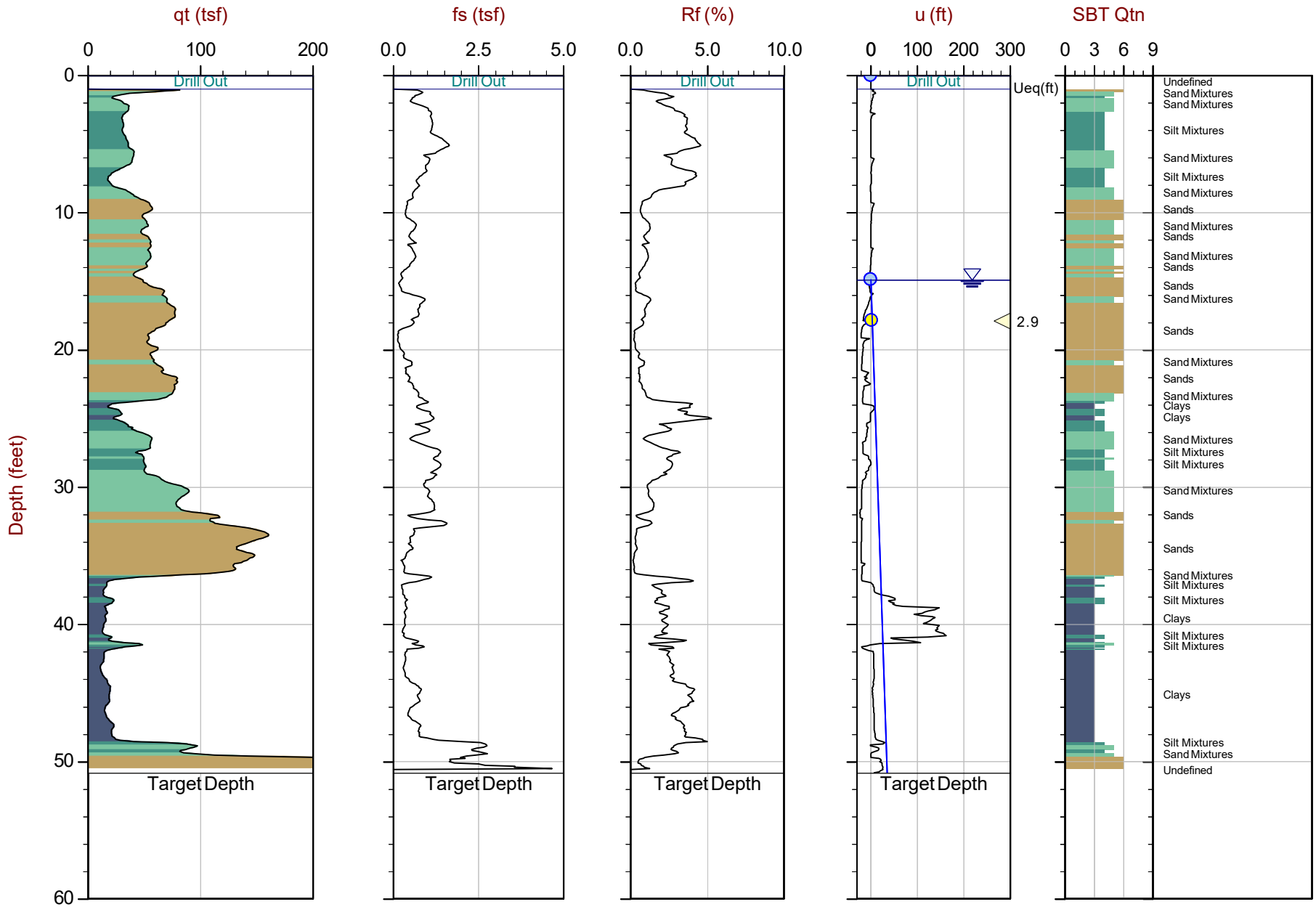
The reported coordinates were acquired from hand-held GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

ENGEO

Job No: 22-56-24946
Date: 2022-10-18 13:43
Site: Cedar Blvd, Newark

Sounding: 3-CPT5
Cone: 813:T1500F15U35



Max Depth: 15.500 m / 50.85 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 22-56-24946_CP05.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: UTM 10S N: 4154288m E: 587698m

Equilibrium Pore Pressure (Ueq) | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Hydrostatic Line

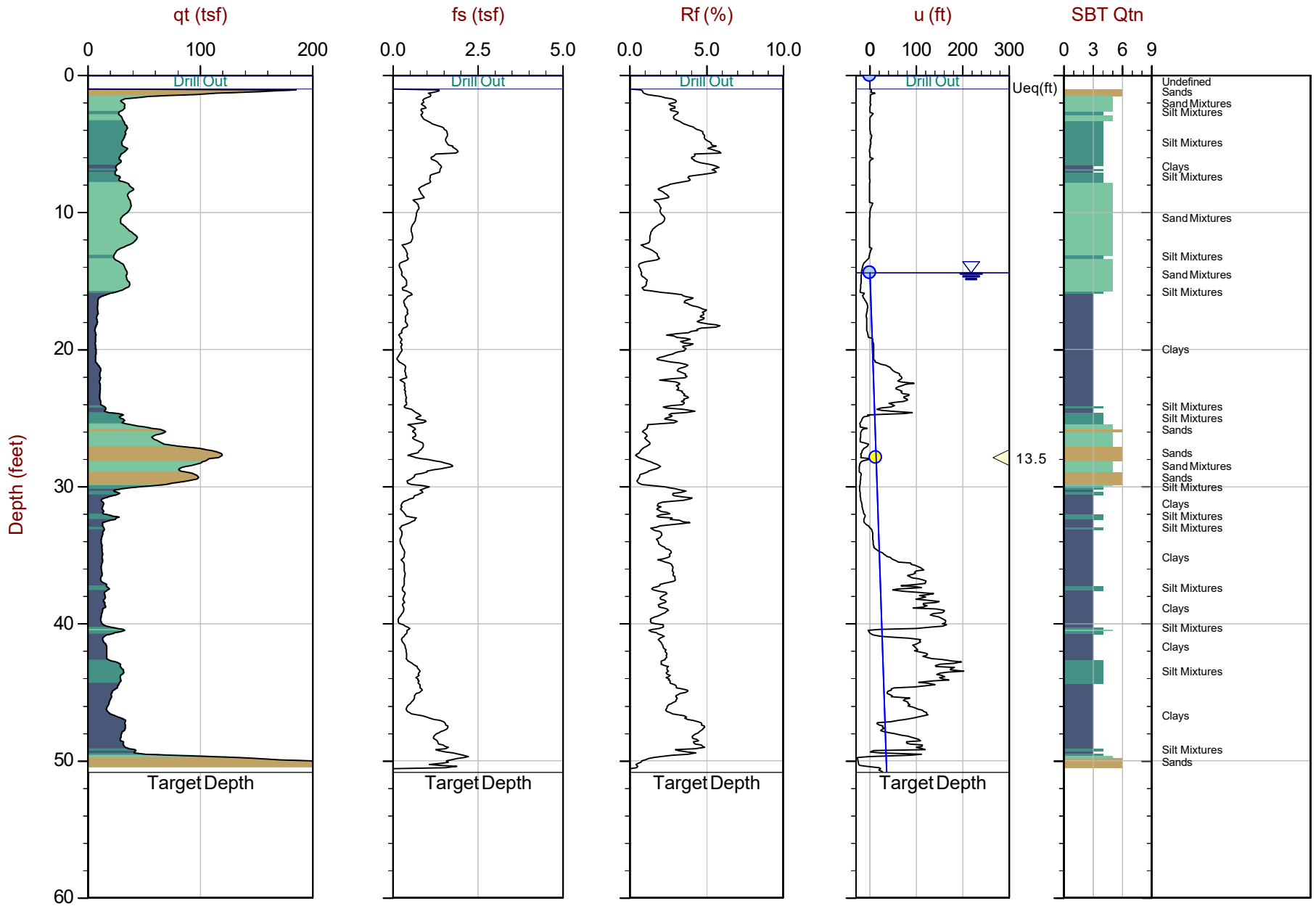
The reported coordinates were acquired from hand-held GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

ENGEO

Job No: 22-56-24946
Date: 2022-10-18 14:55
Site: Cedar Blvd, Newark

Sounding: 3-CPT6
Cone: 813:T1500F15U35



Max Depth: 15.500 m / 50.85 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 22-56-24946_CP06.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: UTM 10S N: 4154293m E: 587682m

Equilibrium Pore Pressure (Ueq) | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Hydrostatic Line

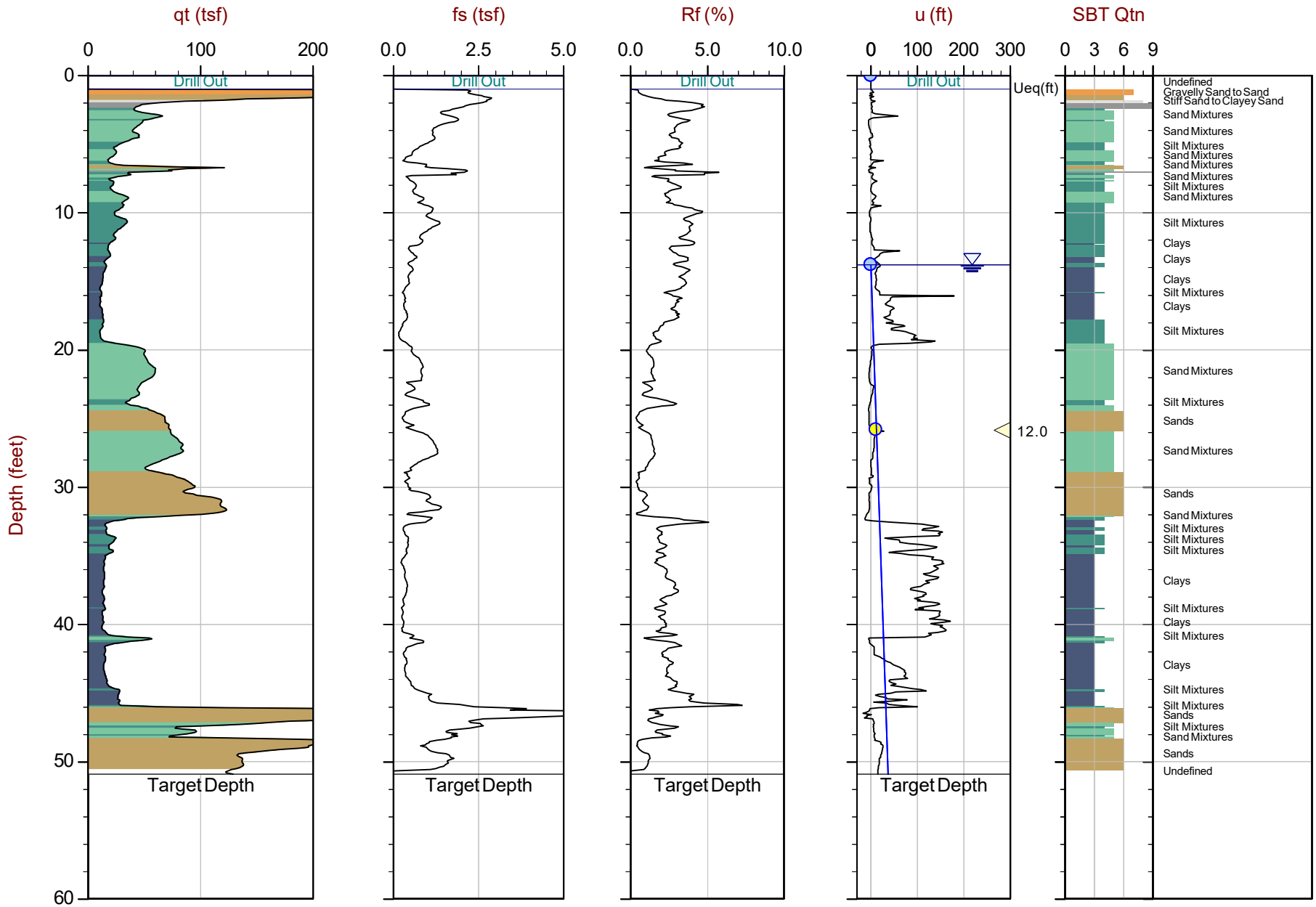
The reported coordinates were acquired from hand-held GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

ENGEO

Job No: 22-56-24946
Date: 2022-10-18 08:34
Site: Cedar Blvd, Newark

Sounding: 3-CPT7
Cone: 813:T1500F15U35



Max Depth: 15.525 m / 50.93 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 22-56-24946_CP07.COR
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010
Coords: UTM 10S N: 4154330m E: 587703m

Equilibrium Pore Pressure (Ueq) | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Hydrostatic Line

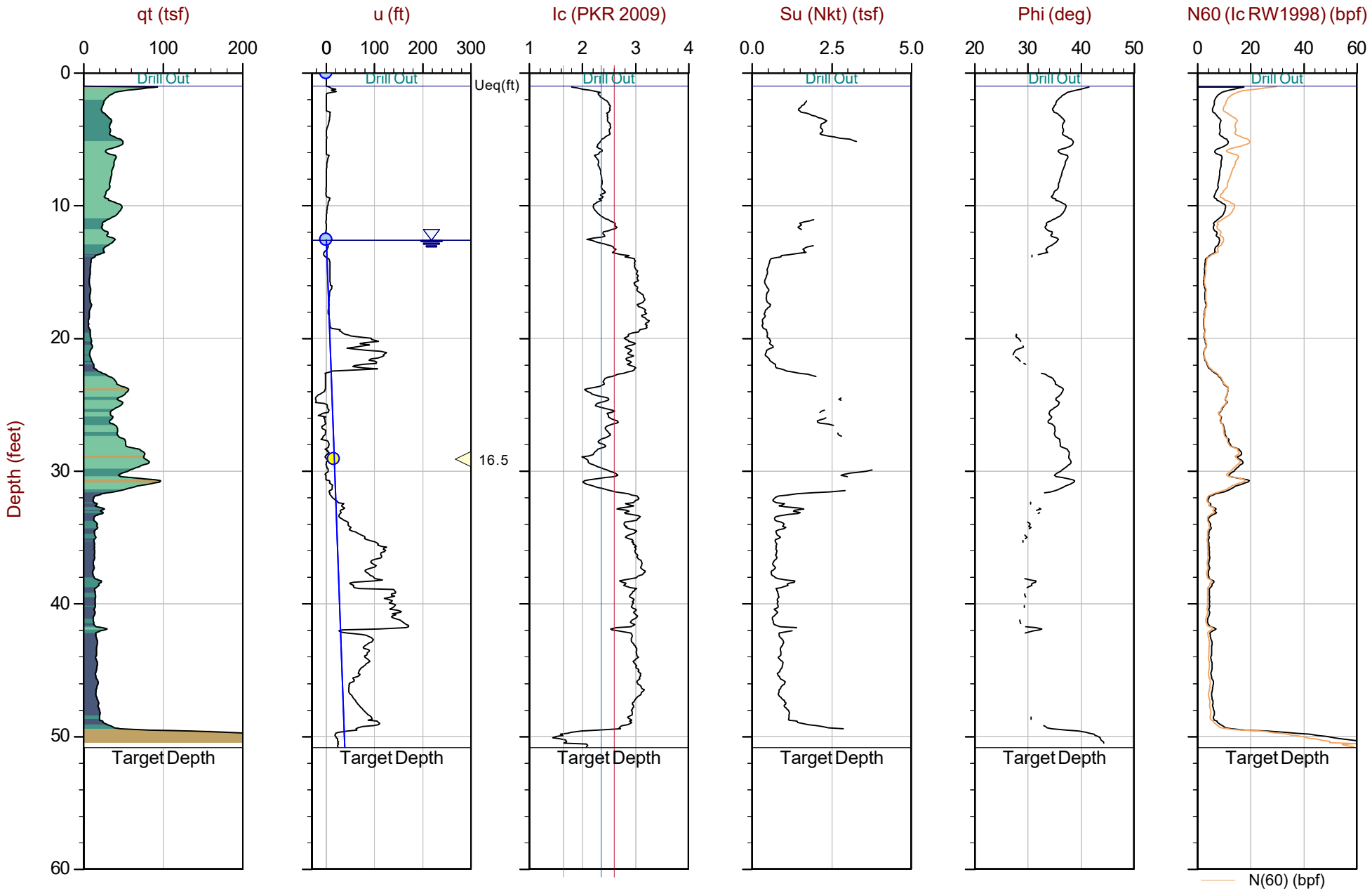
The reported coordinates were acquired from hand-held GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

Advanced Cone Penetration Test Plots

ENGEO

Job No: 22-56-24946
Date: 2022-10-18 12:29
Site: Cedar Blvd, Newark

Sounding: 3-CPT1
Cone: 813:T1500F15U35



Max Depth: 15.500 m / 50.85 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 22-56-24946_CP01.COR
Unit Wt: SBTQtn (PKR2009)
Su Nkt: 15.0

SBT: Robertson, 2009 and 2010
Coords: UTM 10S N: 4154279m E: 587730m

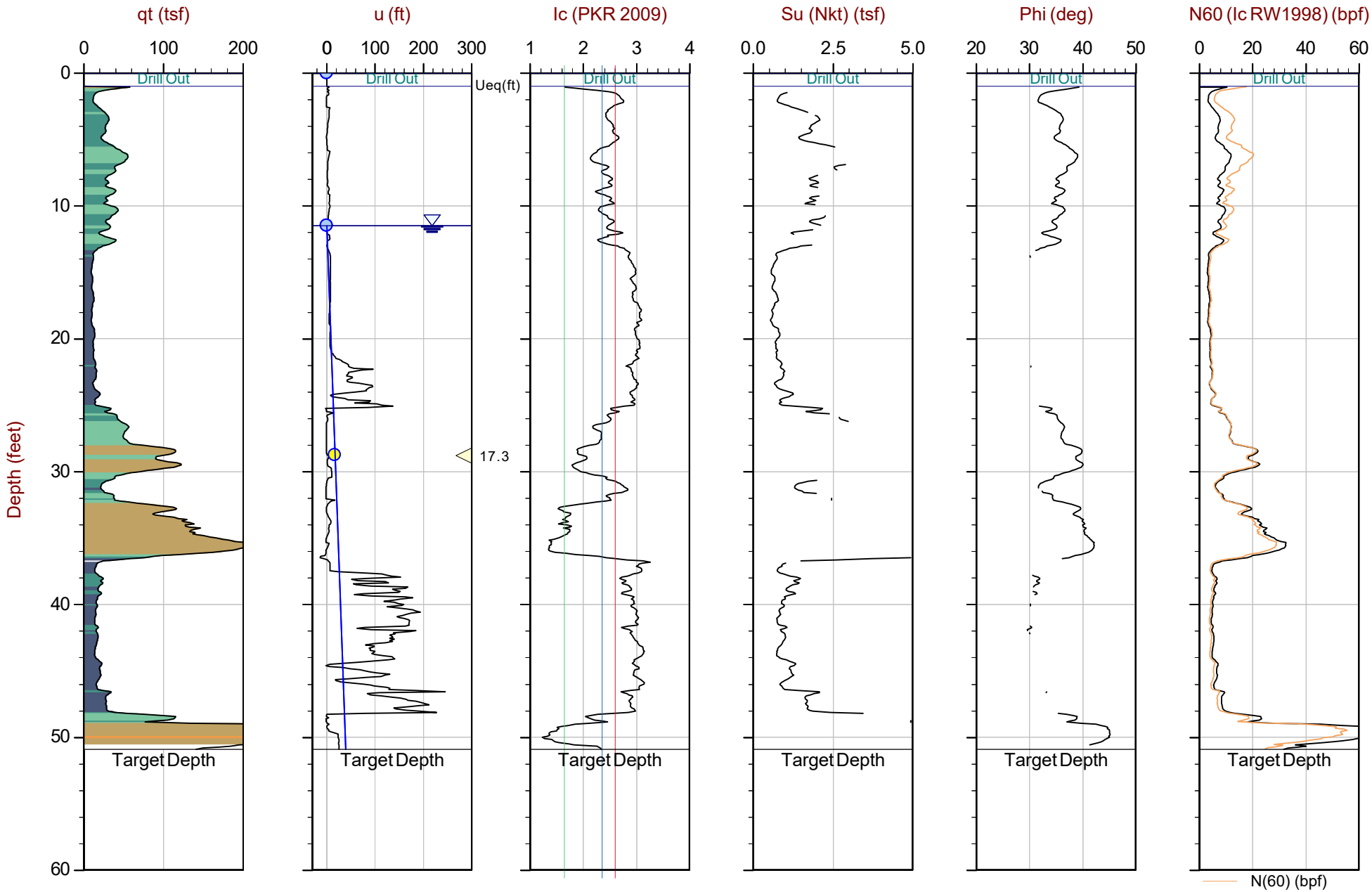
Equilibrium Pore Pressure (Ueq) | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Hydrostatic Line

The reported coordinates were acquired from hand-held GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

ENGEO

Job No: 22-56-24946
Date: 2022-10-18 11:15
Site: Cedar Blvd, Newark

Sounding: 3-CPT2
Cone: 813:T1500F15U35



Max Depth: 15.525 m / 50.93 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 22-56-24946_CP02.COR
Unit Wt: SBTQtn (PKR2009)
Su Nkt: 15.0

SBT: Robertson, 2009 and 2010
Coords: UTM 10S N: 4154292m E: 587734m

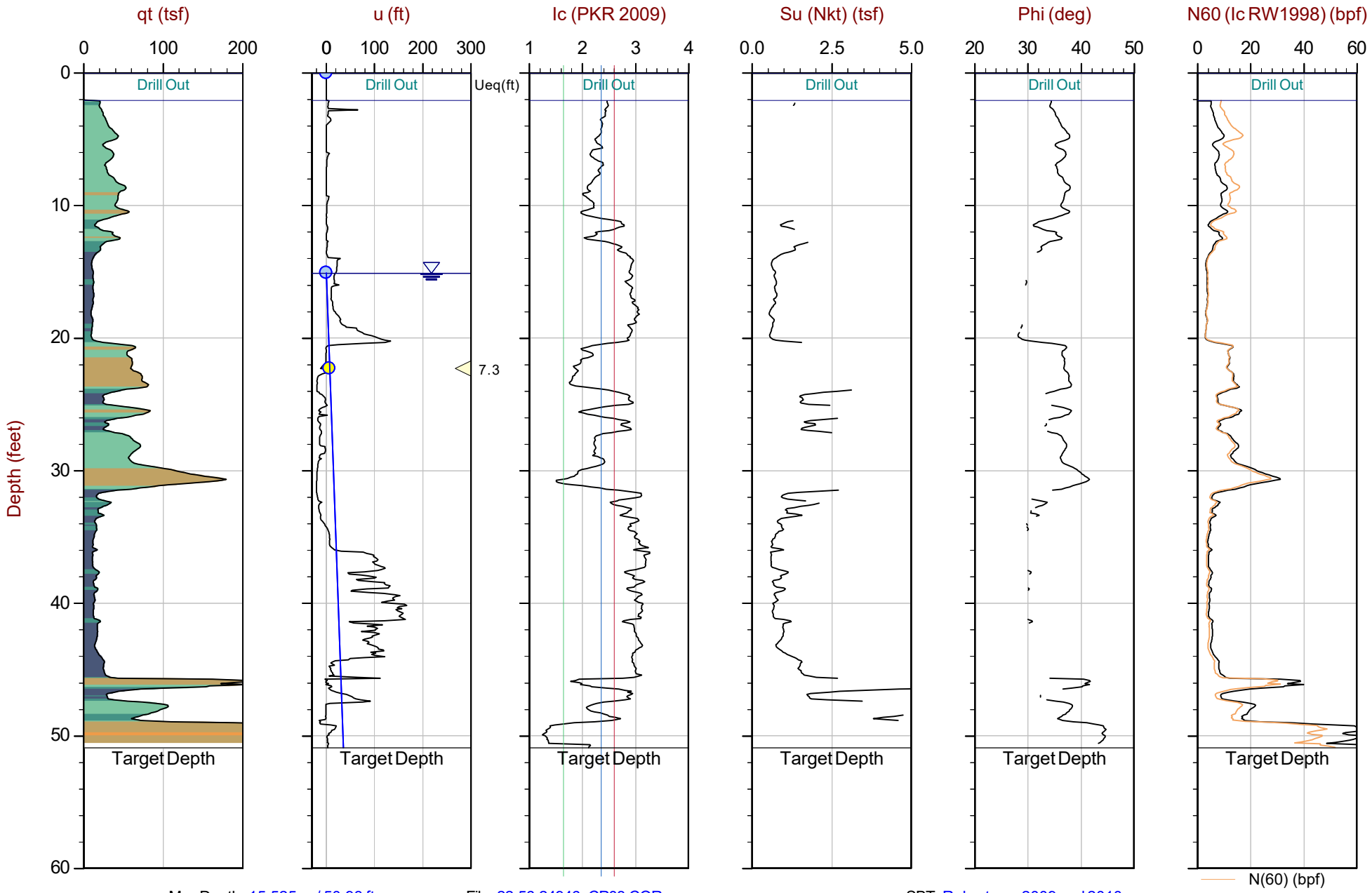
Equilibrium Pore Pressure (Ueq) | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Hydrostatic Line

The reported coordinates were acquired from hand-held GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

ENGEO

Job No: 22-56-24946
Date: 2022-10-18 10:18
Site: Cedar Blvd, Newark

Sounding: 3-CPT3
Cone: 813:T1500F15U35



Max Depth: 15.525 m / 50.93 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 22-56-24946_CP03.COR
Unit Wt: SBTQtn (PKR2009)
Su Nkt: 15.0

SBT: Robertson, 2009 and 2010
Coords: UTM 10S N: 4154303m E: 587739m

Equilibrium Pore Pressure (Ueq) | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Hydrostatic Line

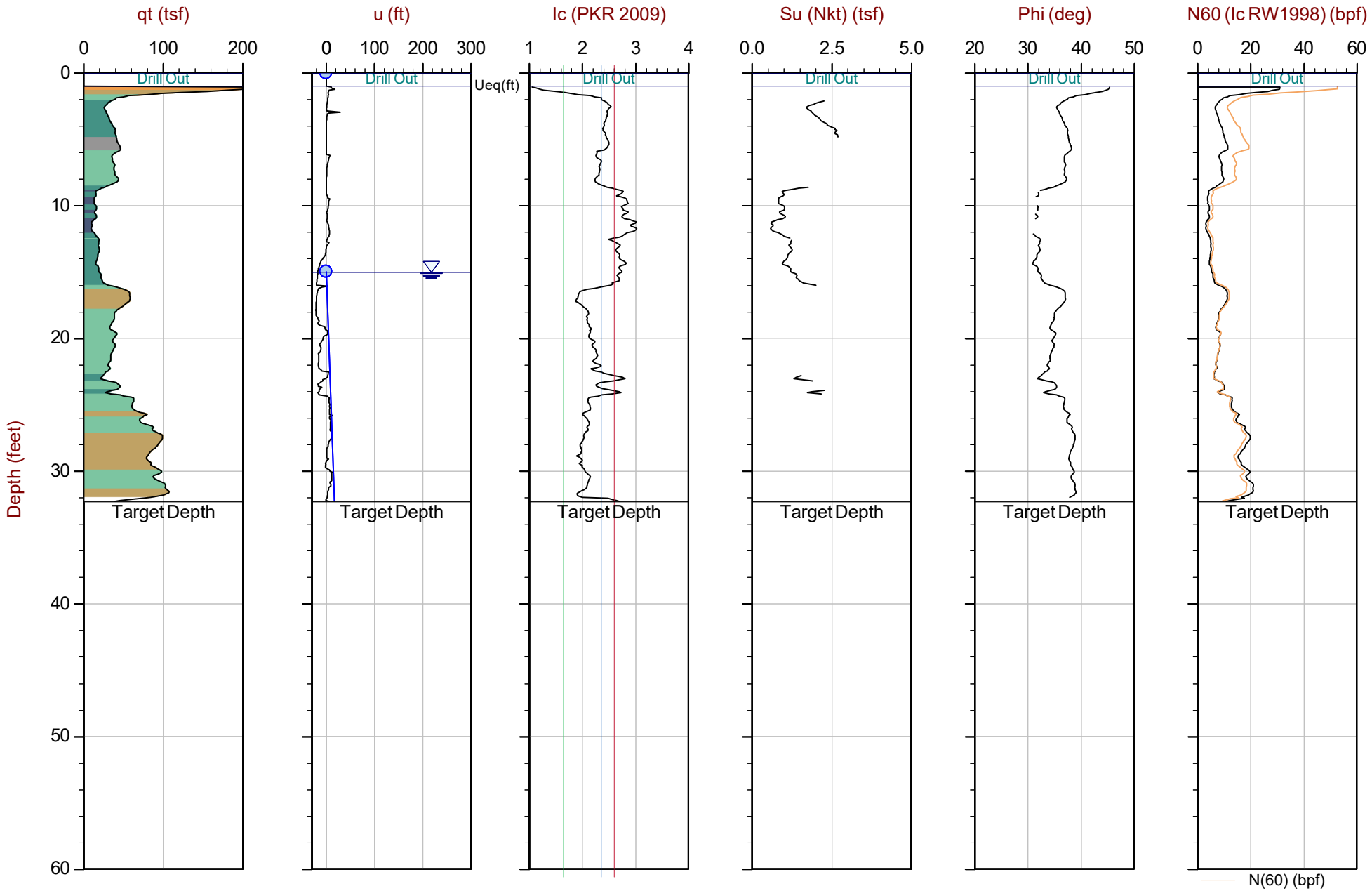
The reported coordinates were acquired from hand-held GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

ENGEO

Job No: 22-56-24946
Date: 2022-10-18 15:53
Site: Cedar Blvd, Newark

Sounding: 3-CPT4
Cone: 813:T1500F15U35



Max Depth: 9.850 m / 32.32 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 22-56-24946_CP04.COR
Unit Wt: SBTQtn (PKR2009)
Su Nkt: 15.0

SBT: Robertson, 2009 and 2010
Coords: UTM 10S N: 4154280m E: 587711m

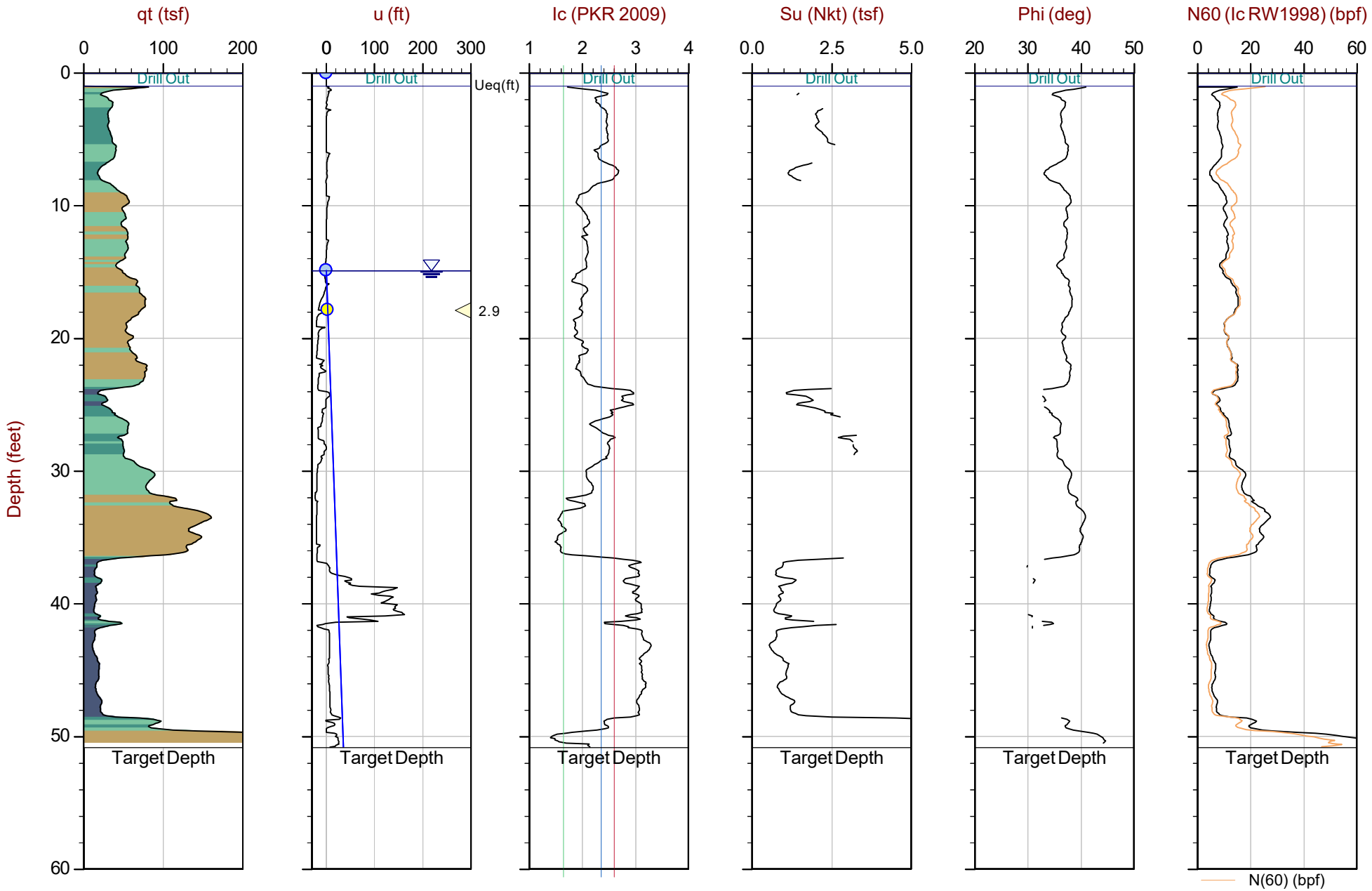
Equilibrium Pore Pressure (Ueq) | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Hydrostatic Line

The reported coordinates were acquired from hand-held GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

ENGEO

Job No: 22-56-24946
Date: 2022-10-18 13:43
Site: Cedar Blvd, Newark

Sounding: 3-CPT5
Cone: 813:T1500F15U35



Max Depth: 15.500 m / 50.85 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 22-56-24946_CP05.COR
Unit Wt: SBTQtn (PKR2009)
Su Nkt: 15.0

SBT: Robertson, 2009 and 2010
Coords: UTM 10S N: 4154288m E: 587698m

Equilibrium Pore Pressure (Ueq) | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Hydrostatic Line

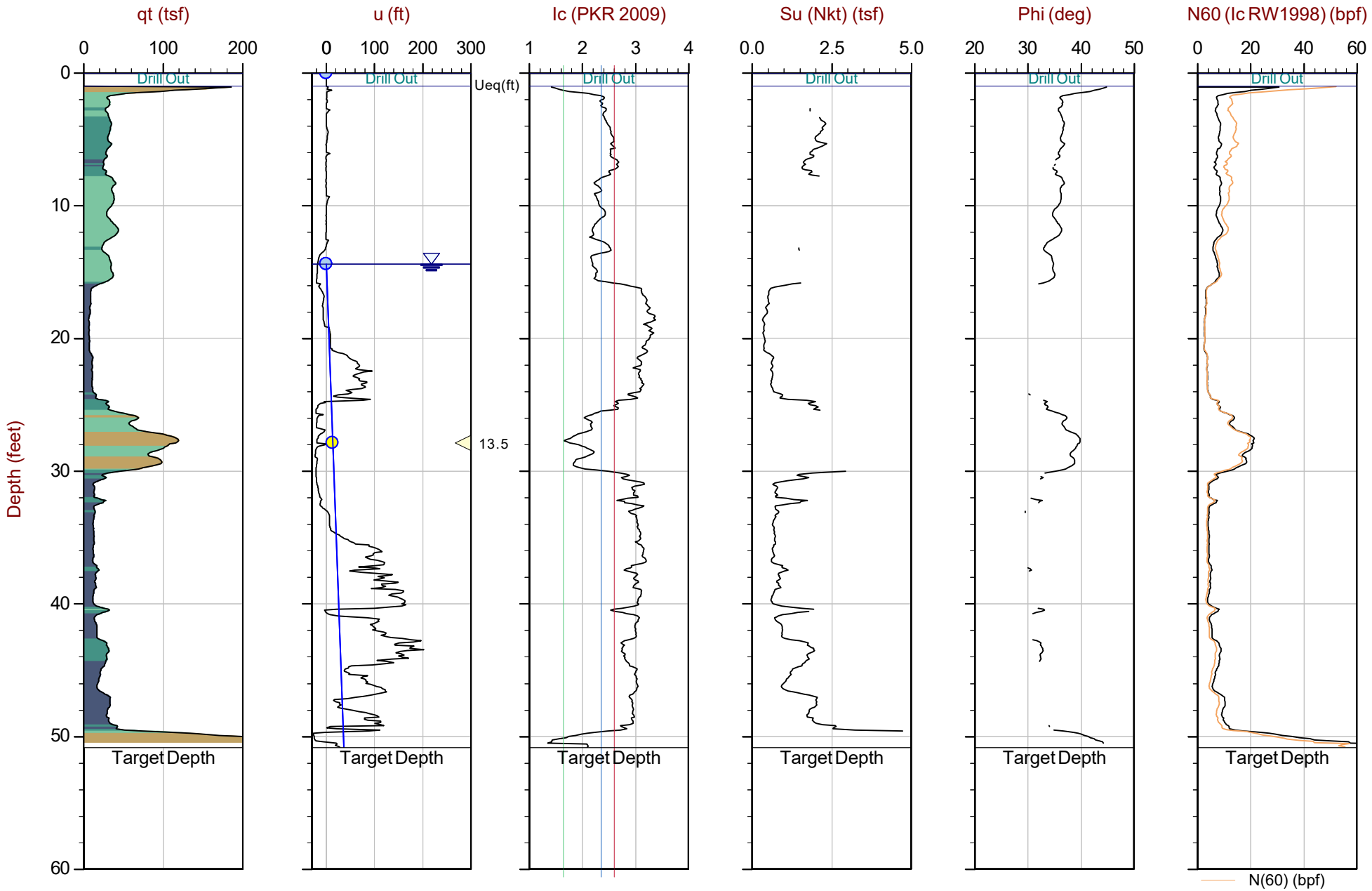
The reported coordinates were acquired from hand-held GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

CONETEC

ENGEO

Job No: 22-56-24946
Date: 2022-10-18 14:55
Site: Cedar Blvd, Newark

Sounding: 3-CPT6
Cone: 813:T1500F15U35



Max Depth: 15.500 m / 50.85 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 22-56-24946_CP06.COR
Unit Wt: SBTQtn (PKR2009)
Su Nkt: 15.0

SBT: Robertson, 2009 and 2010
Coords: UTM 10S N: 4154293m E: 587682m

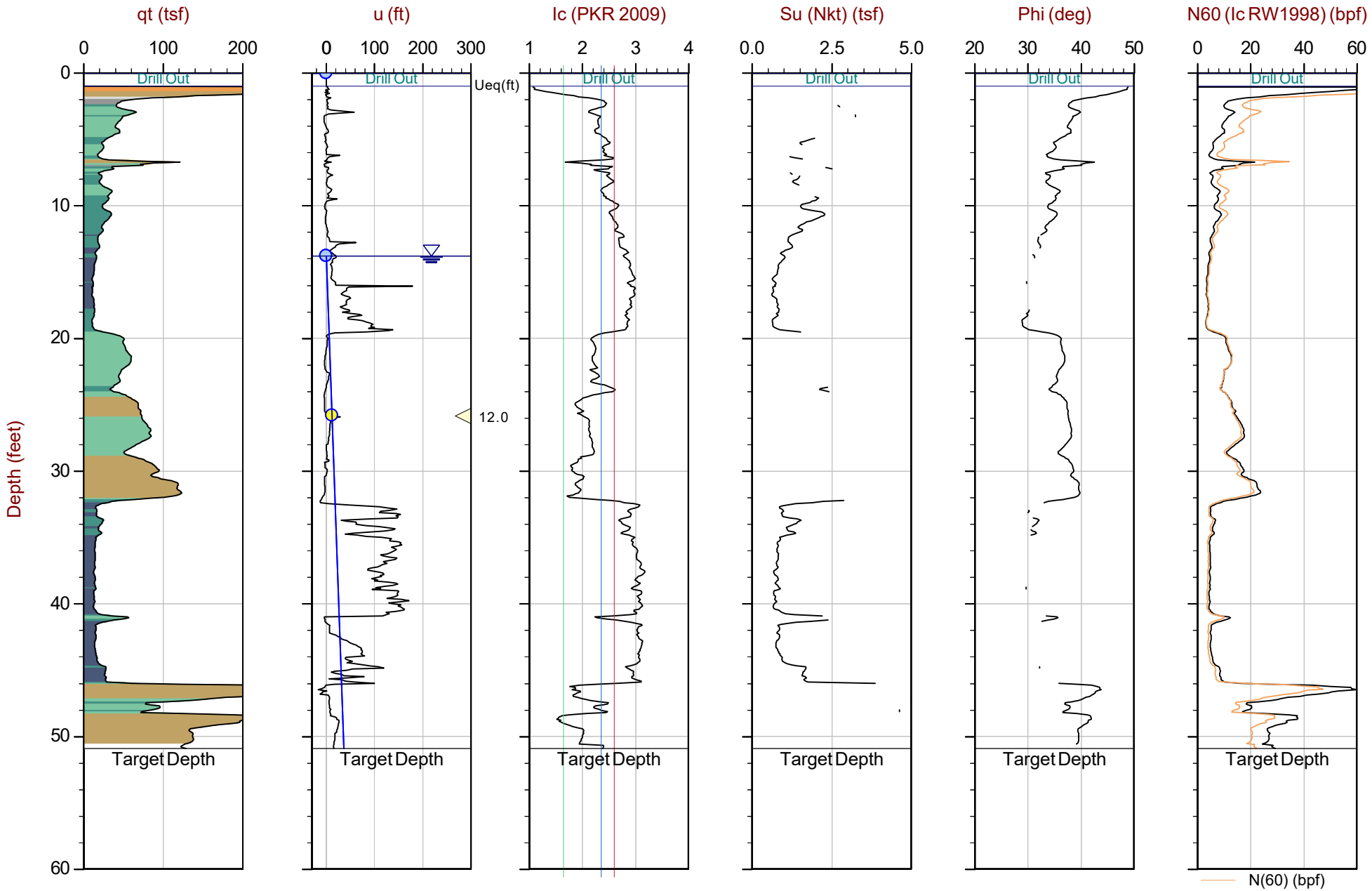
Equilibrium Pore Pressure (Ueq) | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Hydrostatic Line

The reported coordinates were acquired from hand-held GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

ENGEO

Job No: 22-56-24946
Date: 2022-10-18 08:34
Site: Cedar Blvd, Newark

Sounding: 3-CPT7
Cone: 813:T1500F15U35



Max Depth: 15.525 m / 50.93 ft
Depth Inc: 0.025 m / 0.082 ft
Avg Int: Every Point

File: 22-56-24946_CP07.COR
Unit Wt: SBTQtn (PKR2009)
Su Nkt: 15.0

SBT: Robertson, 2009 and 2010
Coords: UTM 10S N: 4154330m E: 587703m

Equilibrium Pore Pressure (Ueq) | Assumed Ueq | Dissipation, Ueq achieved | Dissipation, Ueq not achieved | Hydrostatic Line

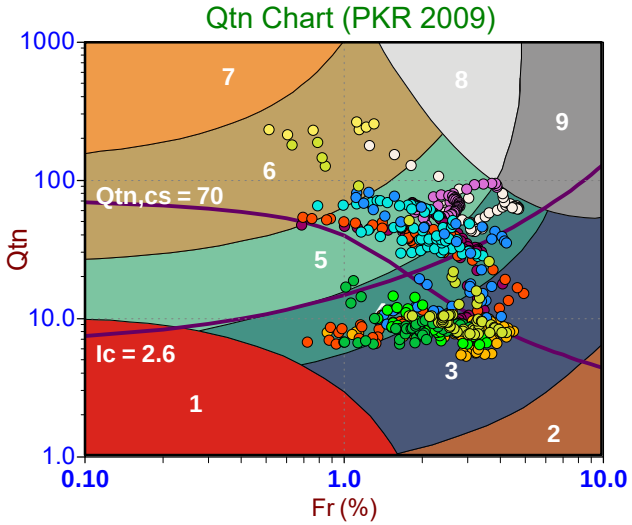
The reported coordinates were acquired from hand-held GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

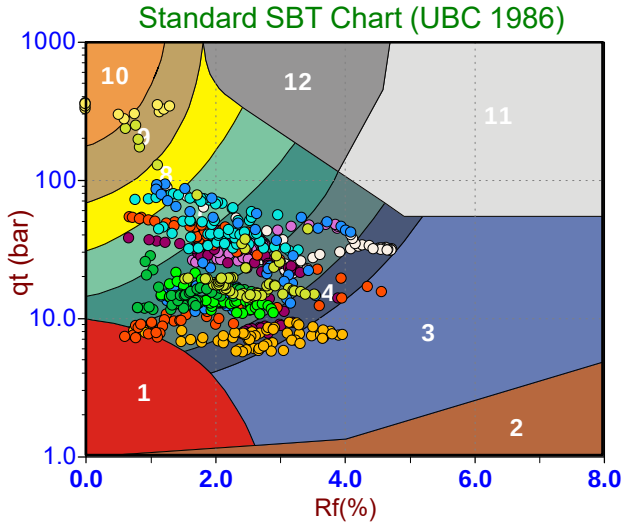
Soil Behavior Type (SBT) Scatter Plots

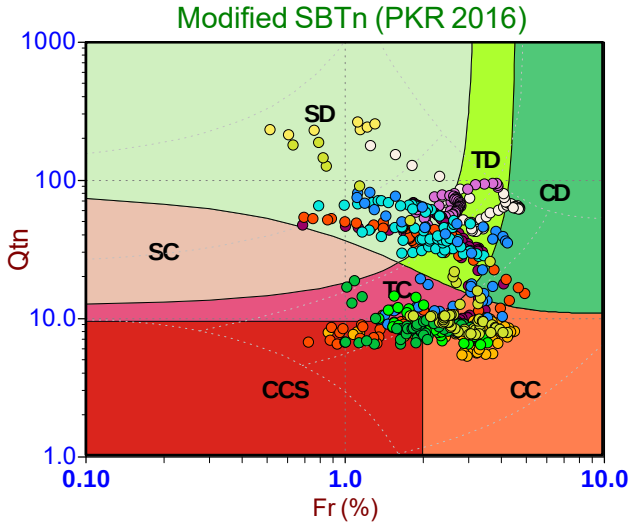
ENGEO

Job No: 22-56-24946
Date: 2022-10-18 12:29
Site: Cedar Blvd, Newark

Sounding: 3-CPT1
Cone: 813:T1500F15U35







Depth Ranges
- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

Legend
- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

Legend
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand

Legend
- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

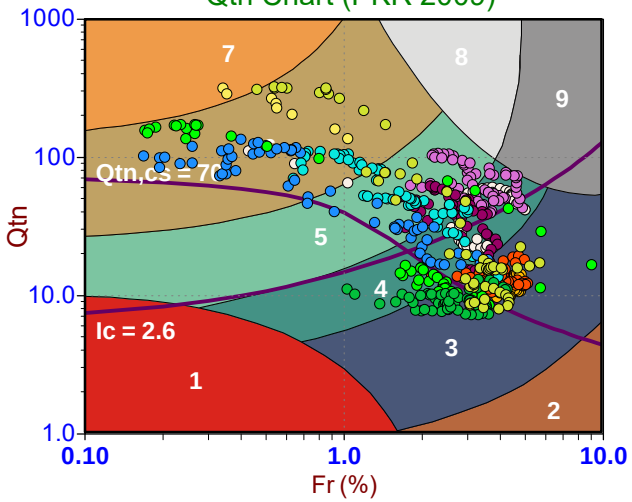
CONETEC

ENGEO

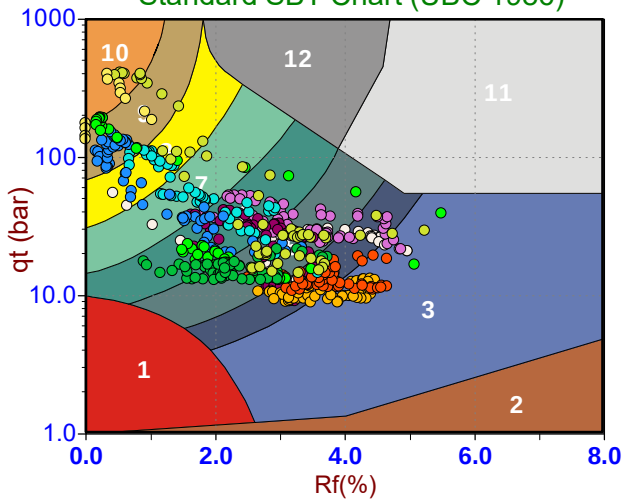
Job No: 22-56-24946
Date: 2022-10-18 11:15
Site: Cedar Blvd, Newark

Sounding: 3-CPT2
Cone: 813:T1500F15U35

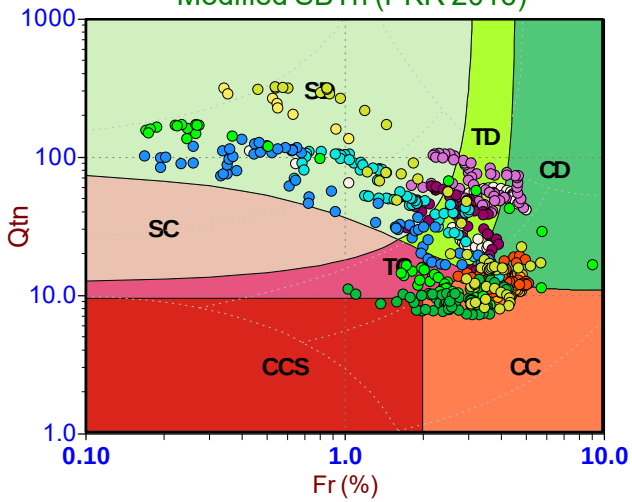
Qtn Chart (PKR 2009)



Standard SBT Chart (UBC 1986)



Modified SBTn (PKR 2016)



Depth Ranges

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

Legend

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

Legend

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand

Legend

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

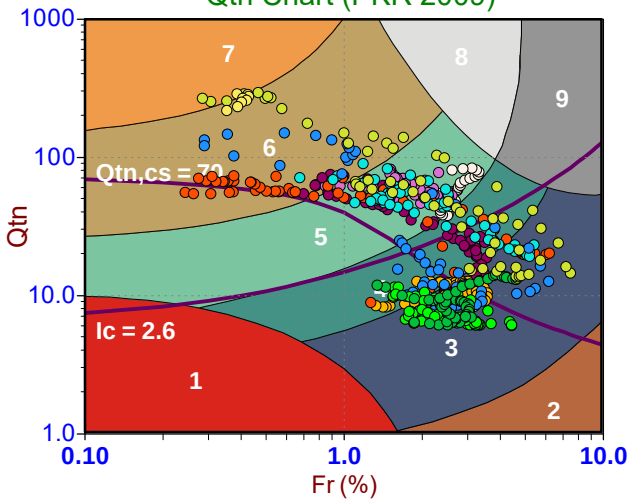
CONETEC

ENGEO

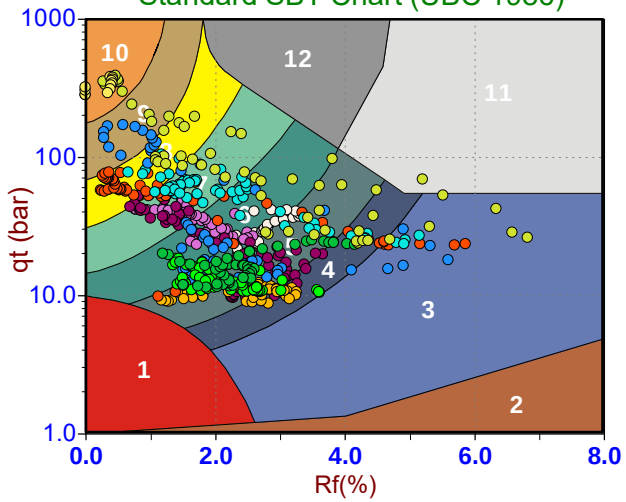
Job No: 22-56-24946
Date: 2022-10-18 10:18
Site: Cedar Blvd, Newark

Sounding: 3-CPT3
Cone: 813:T1500F15U35

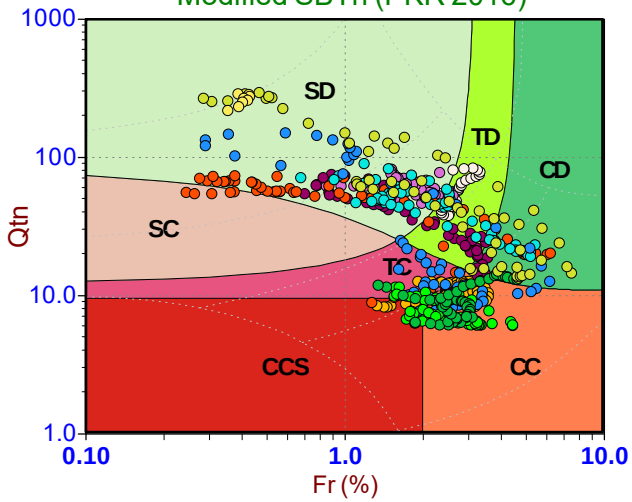
Qtn Chart (PKR 2009)



Standard SBT Chart (UBC 1986)



Modified SBTn (PKR 2016)



Depth Ranges

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

Legend

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

Legend

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand

Legend

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

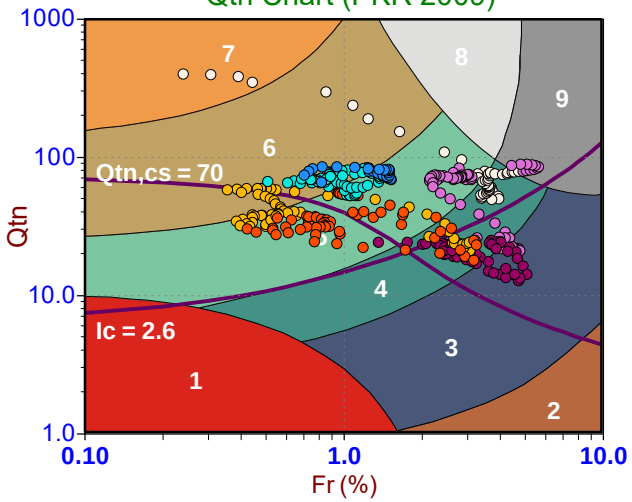
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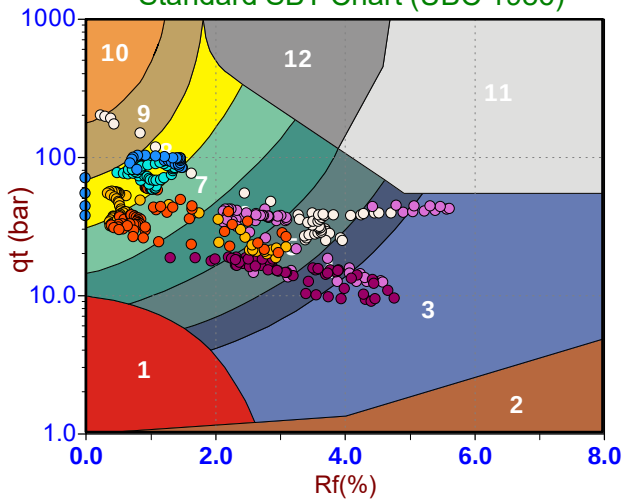
Job No: 22-56-24946
Date: 2022-10-18 15:53
Site: Cedar Blvd, Newark

Sounding: 3-CPT4
Cone: 813:T1500F15U35

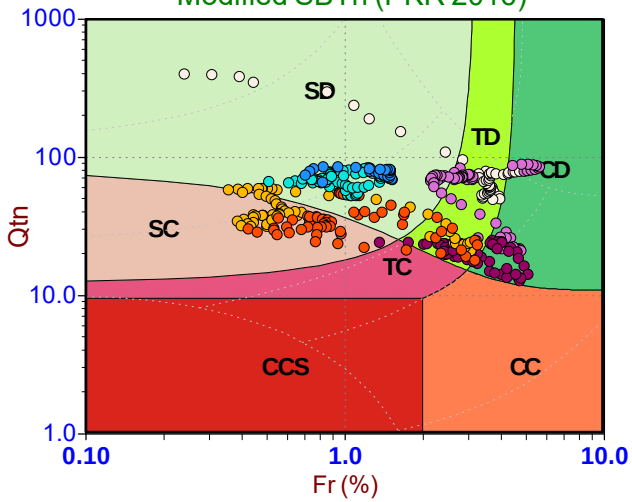
Qtn Chart (PKR 2009)



Standard SBT Chart (UBC 1986)



Modified SBTn (PKR 2016)



Depth Ranges

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

Legend

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

Legend

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand

Legend

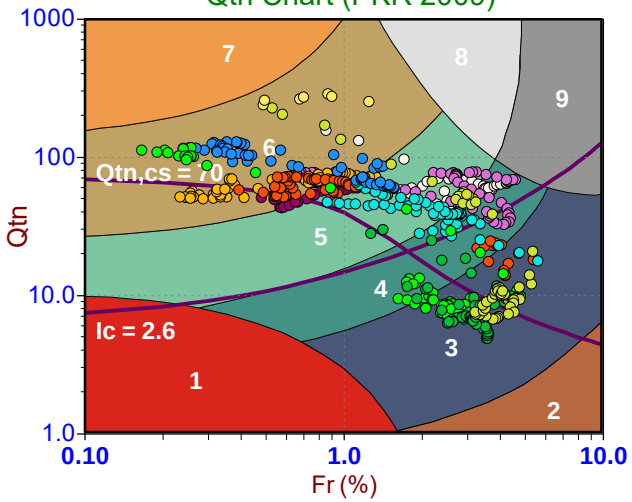
- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

ENGEO

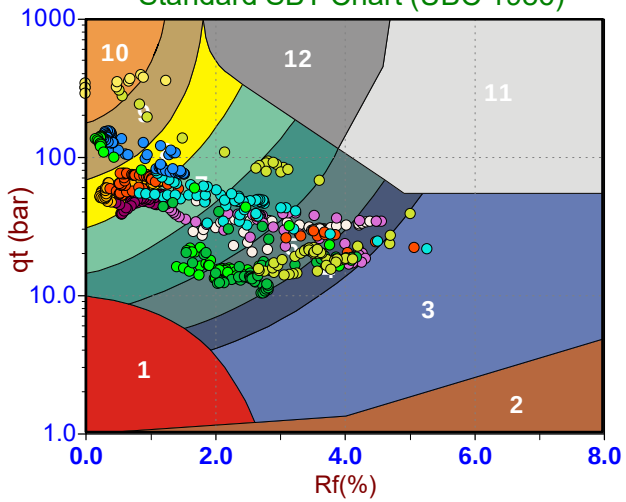
Job No: 22-56-24946
Date: 2022-10-18 13:43
Site: Cedar Blvd, Newark

Sounding: 3-CPT5
Cone: 813:T1500F15U35

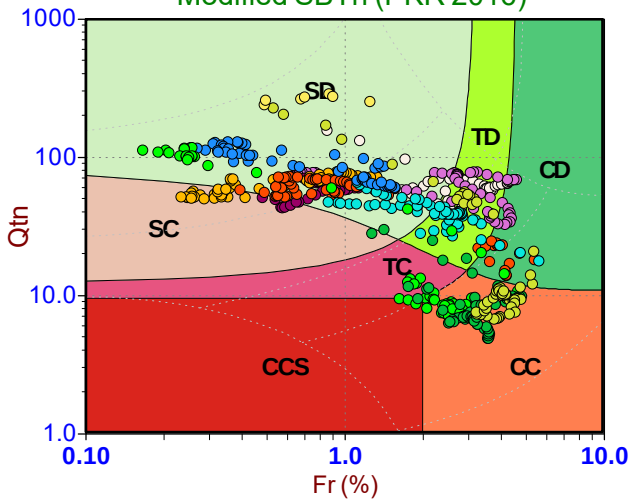
Qtn Chart (PKR 2009)



Standard SBT Chart (UBC 1986)



Modified SBTn (PKR 2016)



Depth Ranges

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

Legend

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

Legend

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand

Legend

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

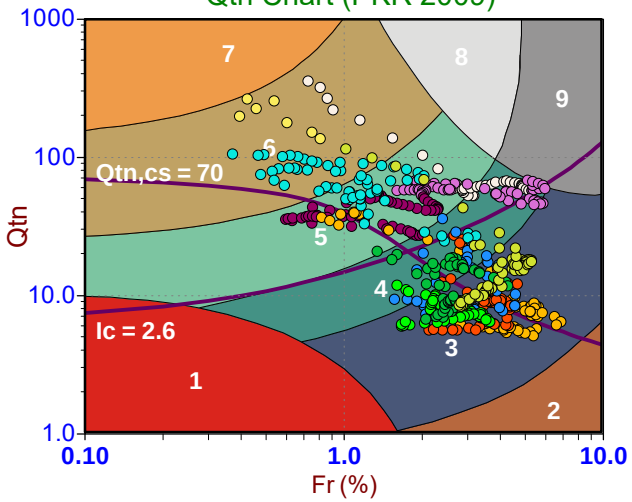
CONETEC

ENGEO

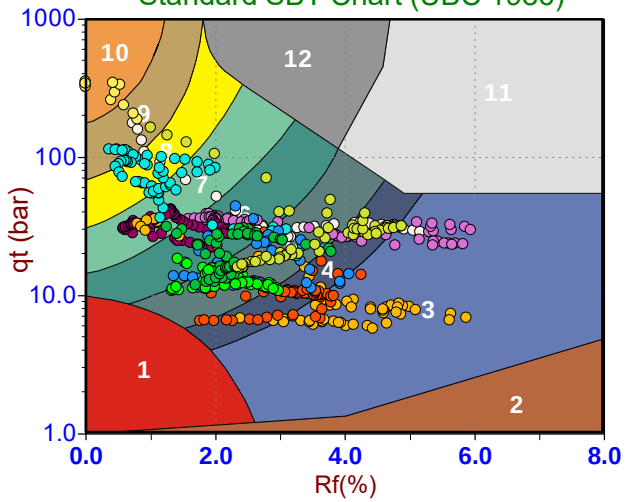
Job No: 22-56-24946
Date: 2022-10-18 14:55
Site: Cedar Blvd, Newark

Sounding: 3-CPT6
Cone: 813:T1500F15U35

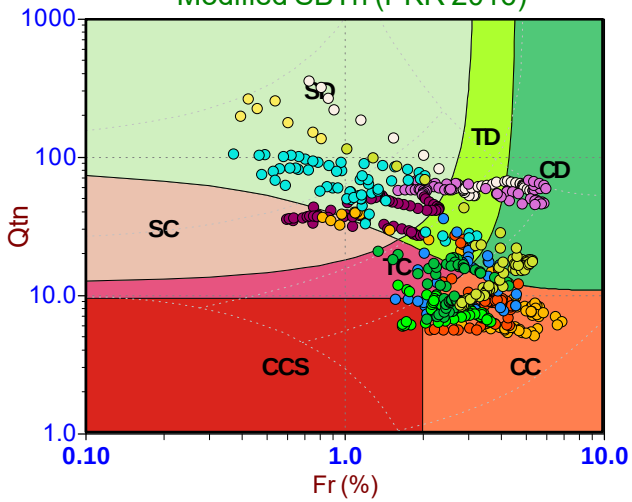
Qtn Chart (PKR 2009)



Standard SBT Chart (UBC 1986)



Modified SBTn (PKR 2016)



Depth Ranges

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

Legend

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

Legend

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand

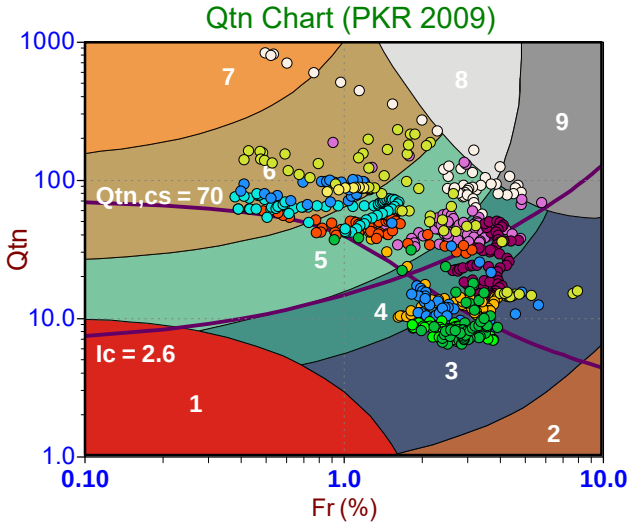
Legend

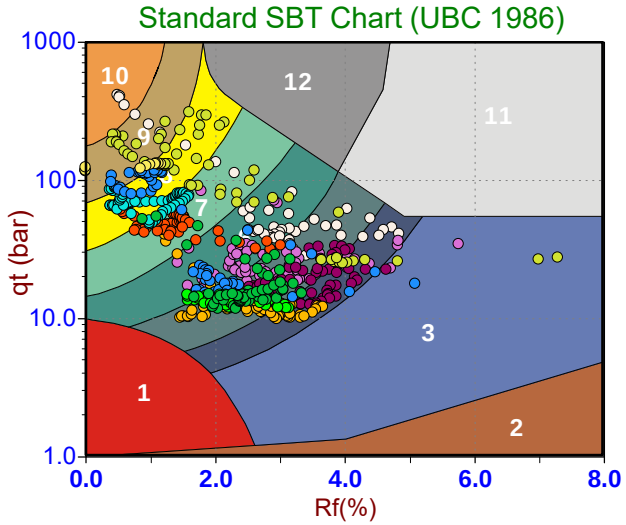
- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

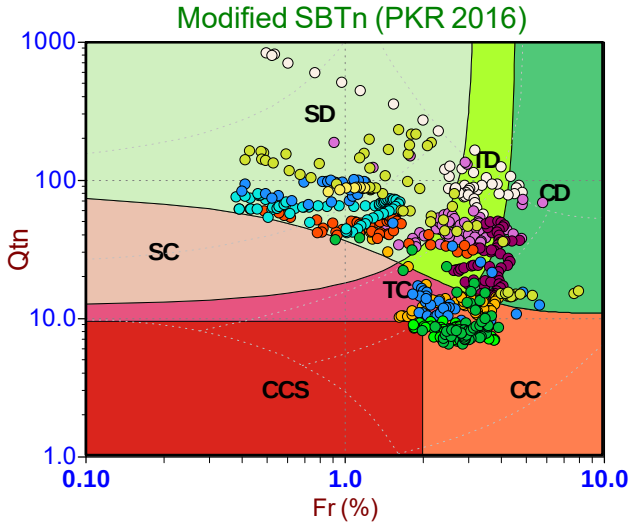
ENGEO

Job No: 22-56-24946
Date: 2022-10-18 08:34
Site: Cedar Blvd, Newark

Sounding: 3-CPT7
Cone: 813:T1500F15U35







Depth Ranges
- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

Legend
- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

Legend
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand

Legend
- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

Pore Pressure Dissipation Summary and Pore Pressure Dissipation Plots

Job No:	22-56-24946
Client:	ENGEO Incorporated
Project:	Cedar Blvd
Start Date:	18-Oct-2022
End Date:	18-Oct-2022

CPTu PORE PRESSURE DISSIPATION SUMMARY

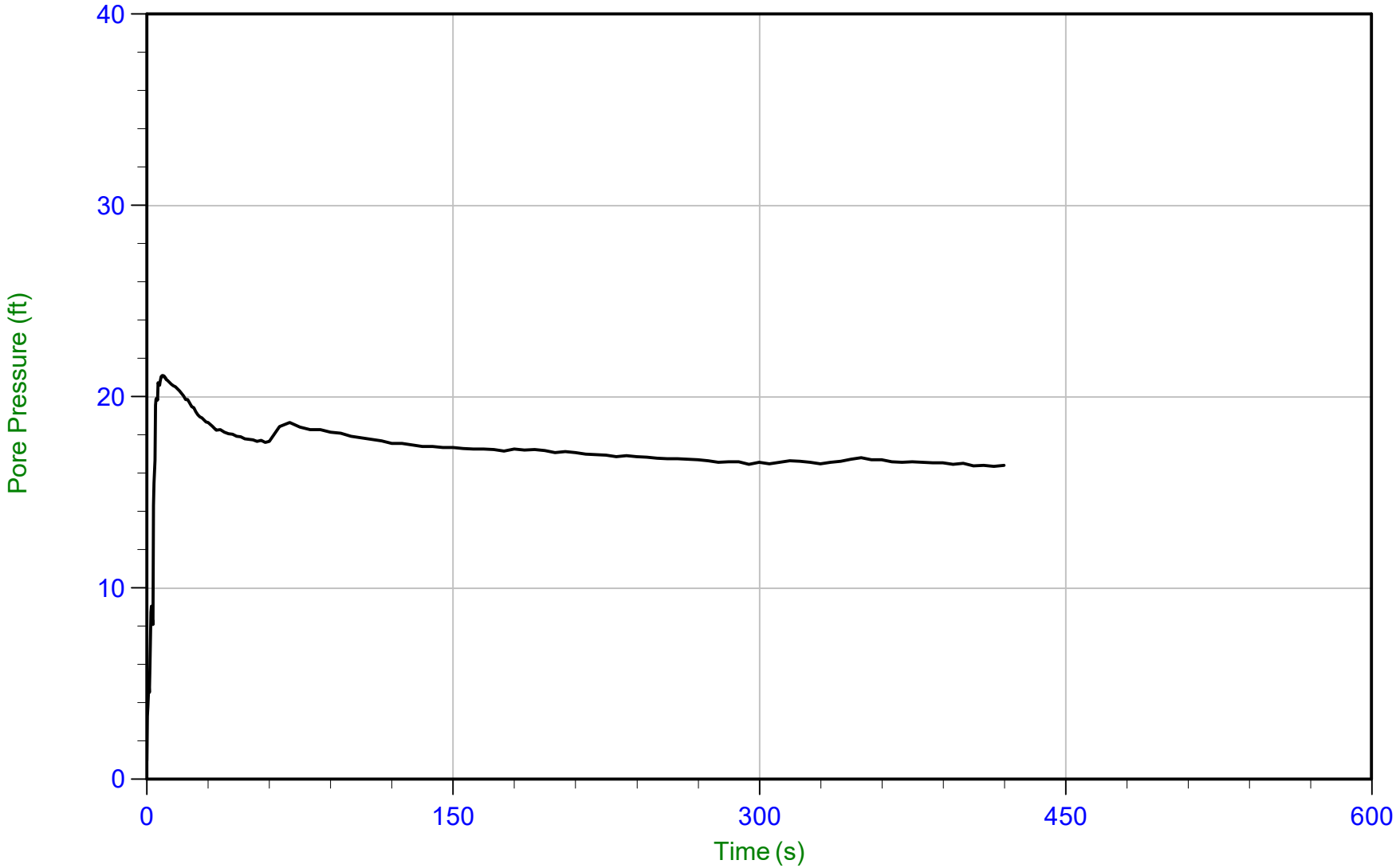
Sounding ID	File Name	Cone Area (cm^2)	Duration (s)	Test Depth (ft)	Equilibrium Pore Pressure U_{eq} (ft)	Calculated Phreatic Surface (ft)
3-CPT1	22-56-24946_CP01	15	420	29.12	16.5	12.6
3-CPT2	22-56-24946_CP02	15	320	28.79	17.3	11.5
3-CPT3	22-56-24946_CP03	15	560	22.31	7.3	15.1
3-CPT5	22-56-24946_CP05	15	555	17.88	3.0	14.9
3-CPT6	22-56-24946_CP06	15	420	27.89	13.5	14.4
3-CPT7	22-56-24946_CP07	15	405	25.84	12.0	13.8

CONETEC

ENGEO

Job No: 22-56-24946
Date: 10/18/2022 12:29
Site: Cedar Blvd, Newark

Sounding: 3-CPT1
Cone: 813:T1500F15U35 Area=15 cm²



Trace Summary:

Filename: 22-56-24946_CP01.PPF
Depth: 8.875 m / 29.117 ft
Duration: 420.0 s

u Min: 1.0 ft
u Max: 21.1 ft
u Final: 16.4 ft

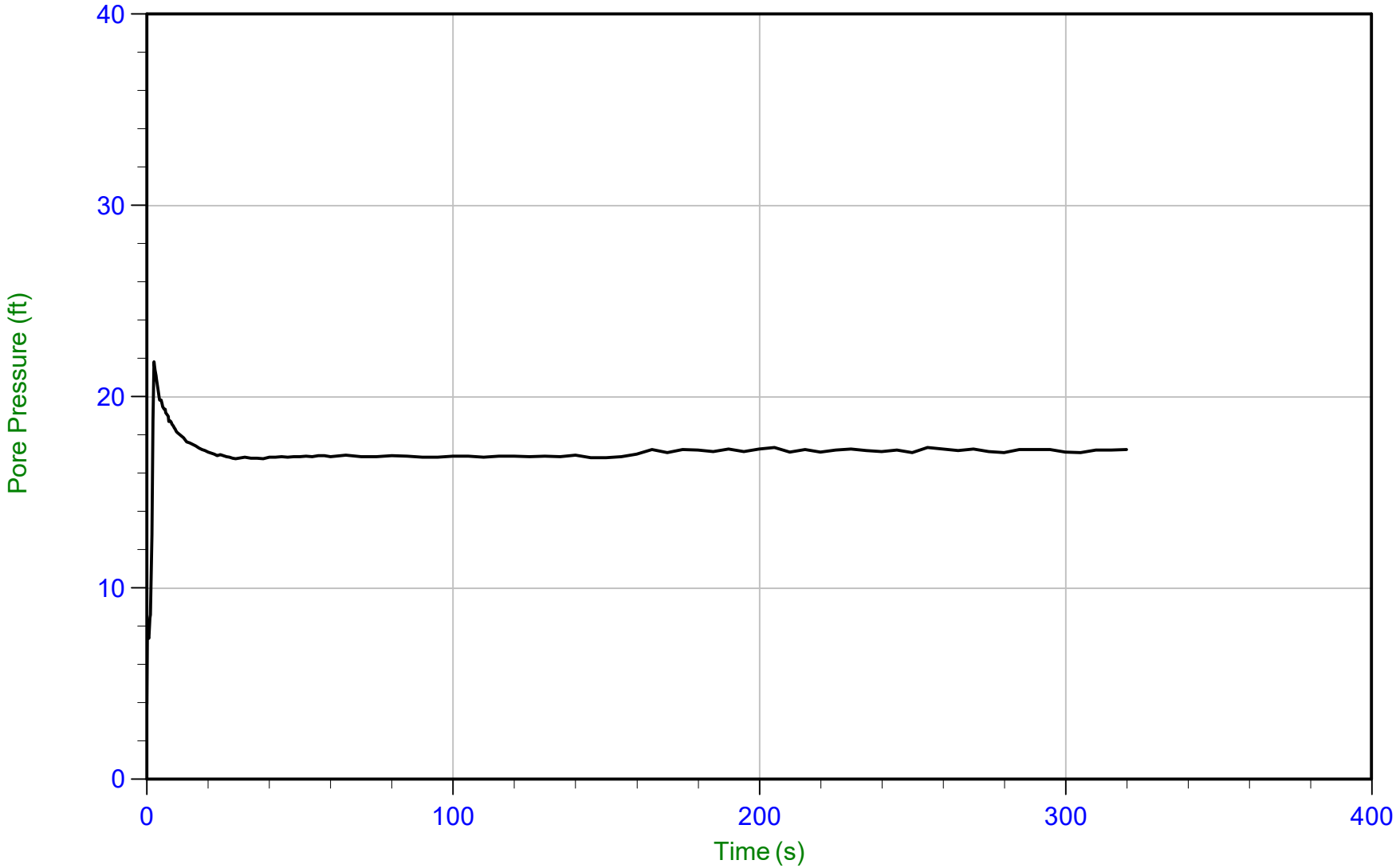
WT: 3.838 m / 12.592 ft
Ueq: 16.5 ft

CONETEC

ENGEO

Job No: 22-56-24946
Date: 10/18/2022 11:15
Site: Cedar Blvd, Newark

Sounding: 3-CPT2
Cone: 813:T1500F15U35 Area=15 cm²



Trace Summary:

Filename: 22-56-24946_CP02.PPF
Depth: 8.775 m / 28.789 ft
Duration: 320.0 s

u Min: 3.9 ft
u Max: 21.8 ft
u Final: 17.2 ft

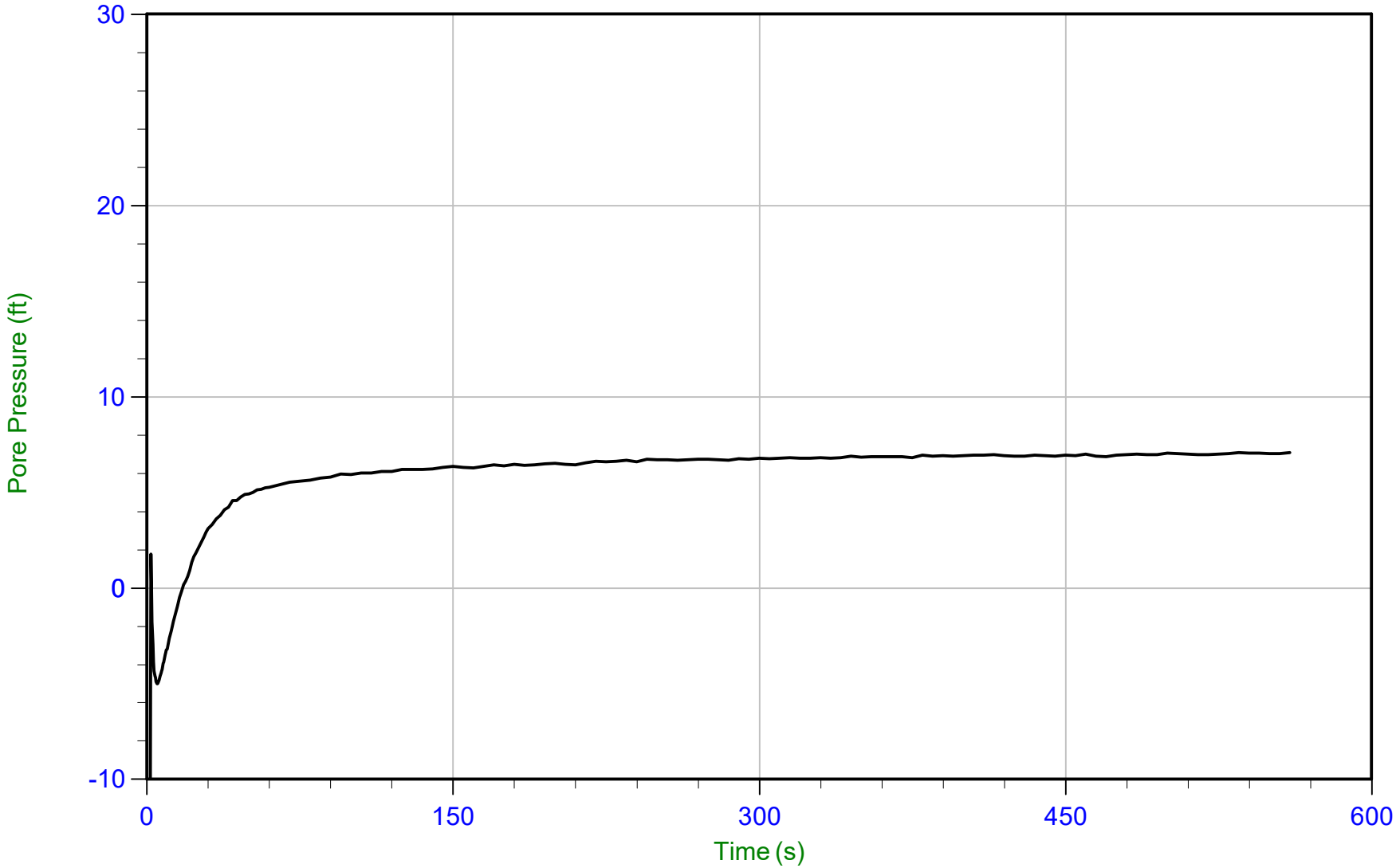
WT: 3.513 m / 11.525 ft
Ueq: 17.3 ft

CONETEC

ENGEO

Job No: 22-56-24946
Date: 10/18/2022 10:18
Site: Cedar Blvd, Newark

Sounding: 3-CPT3
Cone: 813:T1500F15U35 Area=15 cm²



Trace Summary:

Filename: 22-56-24946_CP03.PPF
Depth: 6.800 m / 22.309 ft
Duration: 560.0 s

u Min: -18.5 ft
u Max: 7.1 ft
u Final: 7.1 ft

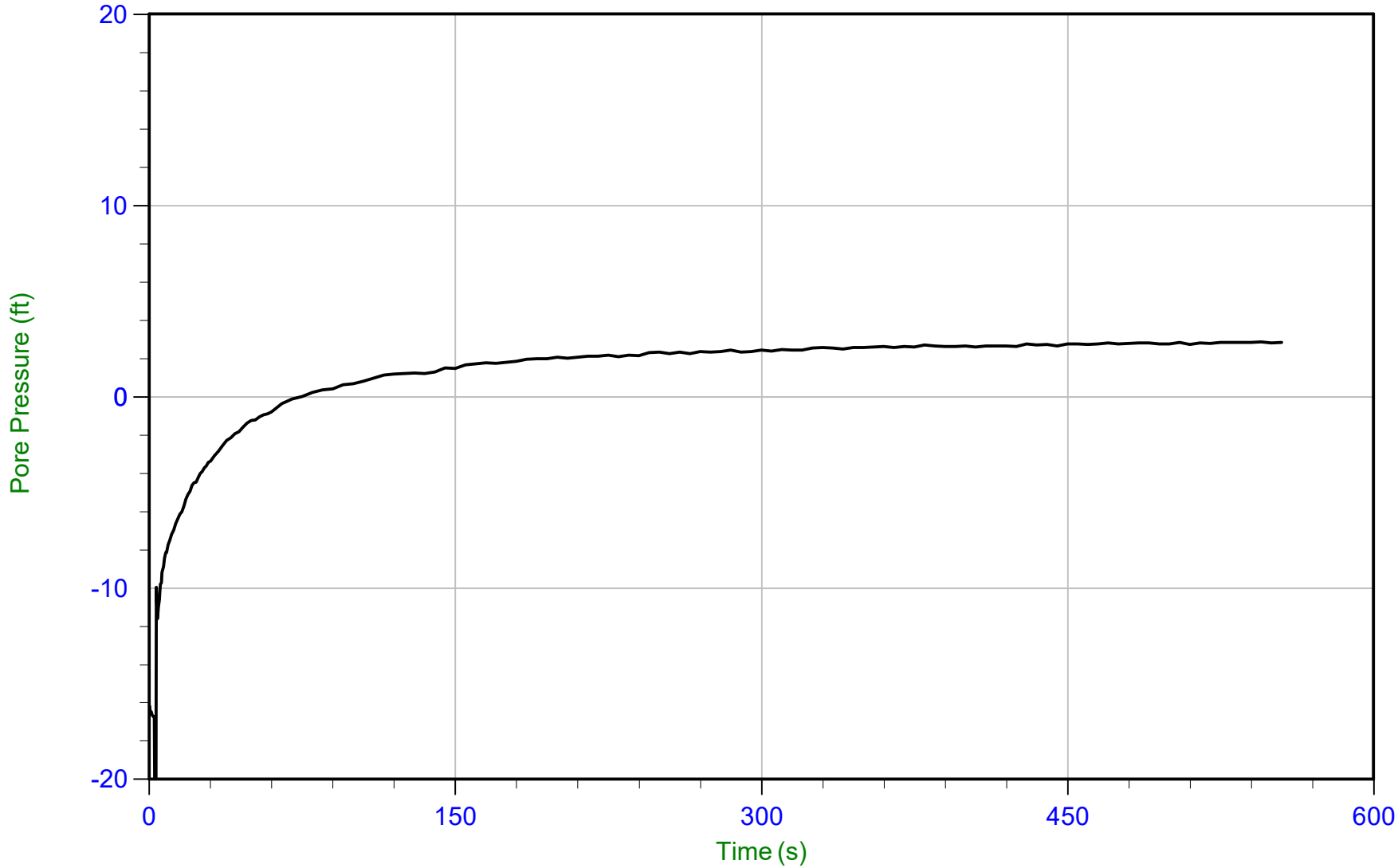
WT: 4.586 m / 15.046 ft
Ueq: 7.3 ft

CONETEC

ENGEO

Job No: 22-56-24946
Date: 10/18/2022 13:43
Site: Cedar Blvd, Newark

Sounding: 3-CPT5
Cone: 813:T1500F15U35 Area=15 cm²



Trace Summary:

Filename: 22-56-24946_CP05.PPF
Depth: 5.450 m / 17.880 ft
Duration: 555.0 s

u Min: -26.6 ft
u Max: 2.9 ft
u Final: 2.8 ft

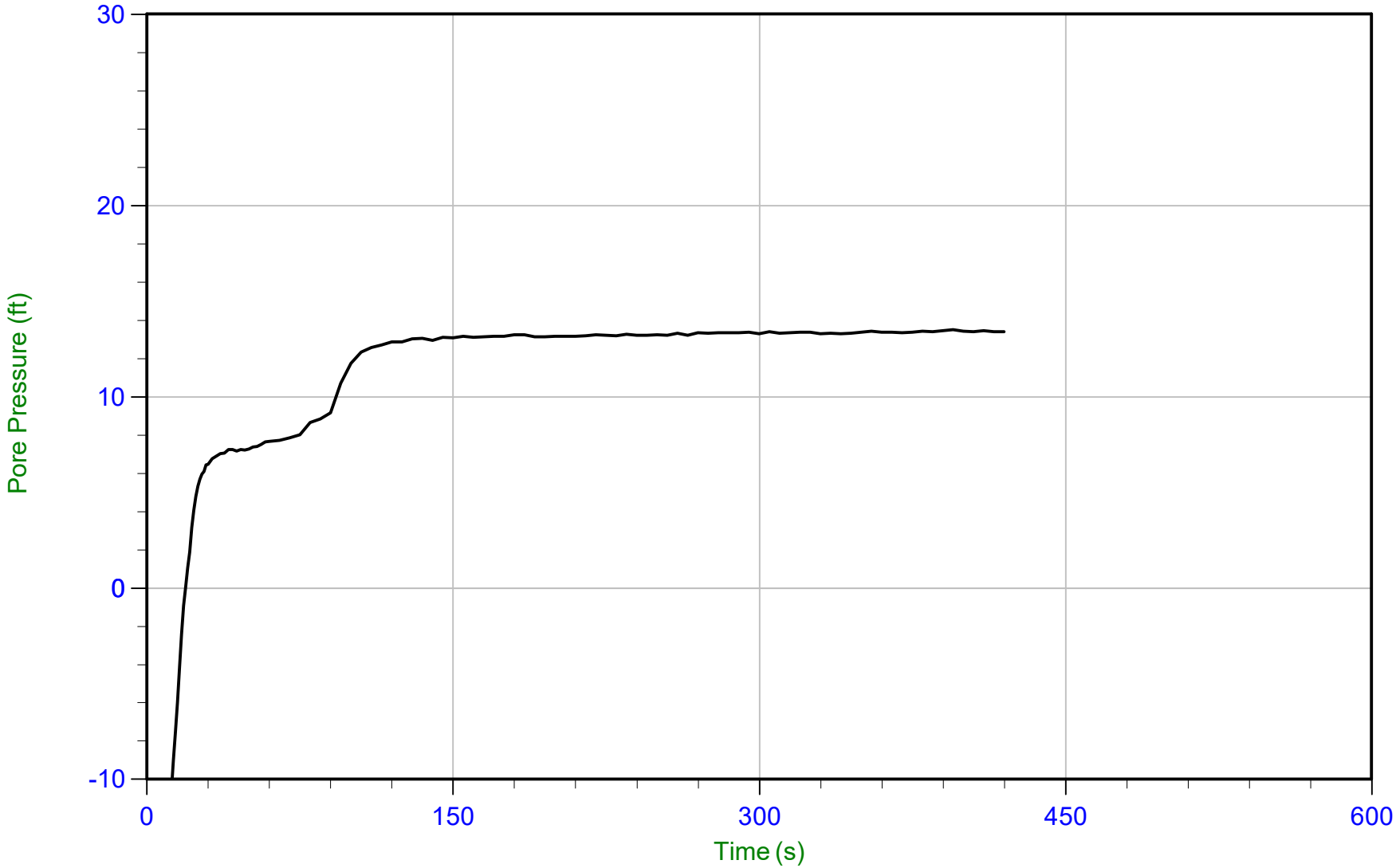
WT: 4.552 m / 14.934 ft
Ueq: 2.9 ft

CONETEC

ENGEO

Job No: 22-56-24946
Date: 10/18/2022 14:55
Site: Cedar Blvd, Newark

Sounding: 3-CPT6
Cone: 813:T1500F15U35 Area=15 cm²



Trace Summary:

Filename: 22-56-24946_CP06.PPF
Depth: 8.500 m / 27.887 ft
Duration: 420.0 s

u Min: -26.5 ft
u Max: 13.5 ft
u Final: 13.4 ft

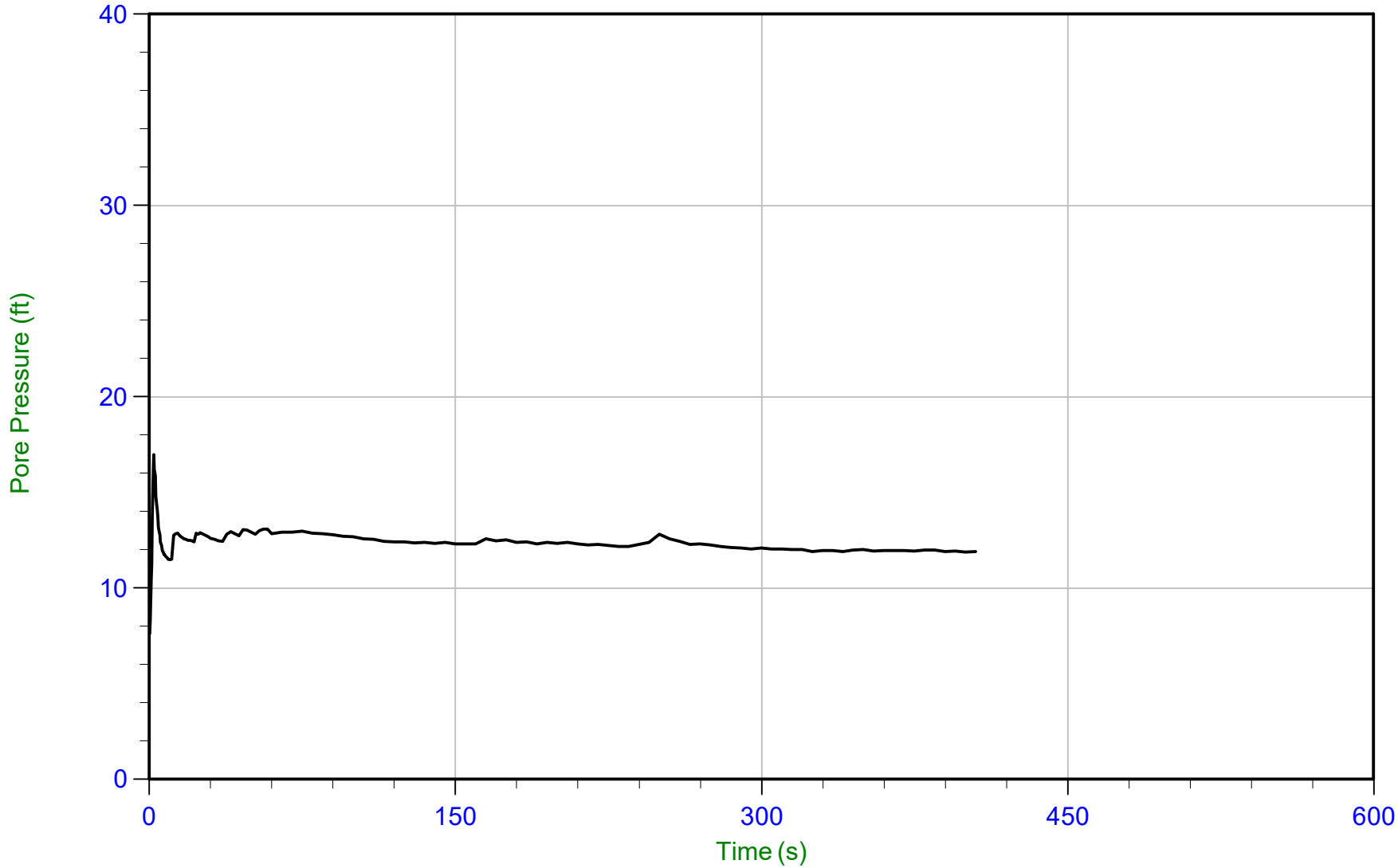
WT: 4.393 m / 14.413 ft
Ueq: 13.5 ft

CONETEC

ENGEO

Job No: 22-56-24946
Date: 10/18/2022 08:34
Site: Cedar Blvd, Newark

Sounding: 3-CPT7
Cone: 813:T1500F15U35 Area=15 cm²



Trace Summary:

Filename: 22-56-24946_CP07.PPF
Depth: 7.875 m / 25.836 ft
Duration: 405.0 s

u Min: 7.5 ft
u Max: 17.0 ft
u Final: 11.9 ft

WT: 4.217 m / 13.835 ft
Ueq: 12.0 ft

Methodology Statements and Data File Formats

Cone penetration tests (CPTu) are conducted using an integrated electronic piezocone penetrometer and data acquisition system manufactured by Adara Systems Ltd., a subsidiary of ConeTec.

ConeTec's piezocone penetrometers are compression type designs in which the tip and friction sleeve load cells are independent and have separate load capacities. The piezocones use strain gauged load cells for tip and sleeve friction and a strain gauged diaphragm type transducer for recording pore pressure. The piezocones also have a platinum resistive temperature device (RTD) for monitoring the temperature of the sensors, an accelerometer type dual axis inclinometer and two geophone sensors for recording seismic signals. All signals are amplified and measured with minimum sixteen-bit resolution down hole within the cone body, and the signals are sent to the surface using a high bandwidth, error corrected digital interface through a shielded cable.

ConeTec penetrometers are manufactured with various tip, friction and pore pressure capacities in both 10 cm^2 and 15 cm^2 tip base area configurations in order to maximize signal resolution for various soil conditions. The specific piezocone used for each test is described in the CPT summary table presented in the first appendix. The 15 cm^2 penetrometers do not require friction reducers as they have a diameter larger than the deployment rods. The 10 cm^2 piezocones use a friction reducer consisting of a rod adapter extension behind the main cone body with an enlarged cross sectional area (typically 44 millimeters diameter over a length of 32 millimeters with tapered leading and trailing edges) located at a distance of 585 millimeters above the cone tip.

The penetrometers are designed with equal end area friction sleeves, a net end area ratio of 0.8 and cone tips with a 60 degree apex angle.

All ConeTec piezocones can record pore pressure at various locations. Unless otherwise noted, the pore pressure filter is located directly behind the cone tip in the "u_2" position (ASTM Type 2). The filter is six millimeters thick, made of porous plastic (polyethylene) having an average pore size of 125 microns (90-160 microns). The function of the filter is to allow rapid movements of extremely small volumes of water needed to activate the pressure transducer while preventing soil ingress or blockage.

The piezocone penetrometers are manufactured with dimensions, tolerances and sensor characteristics that are in general accordance with the current ASTM D5778 standard. ConeTec's calibration criteria also meets or exceeds those of the current ASTM D5778 standard. An illustration of the piezocone penetrometer is presented in Figure CPTu.

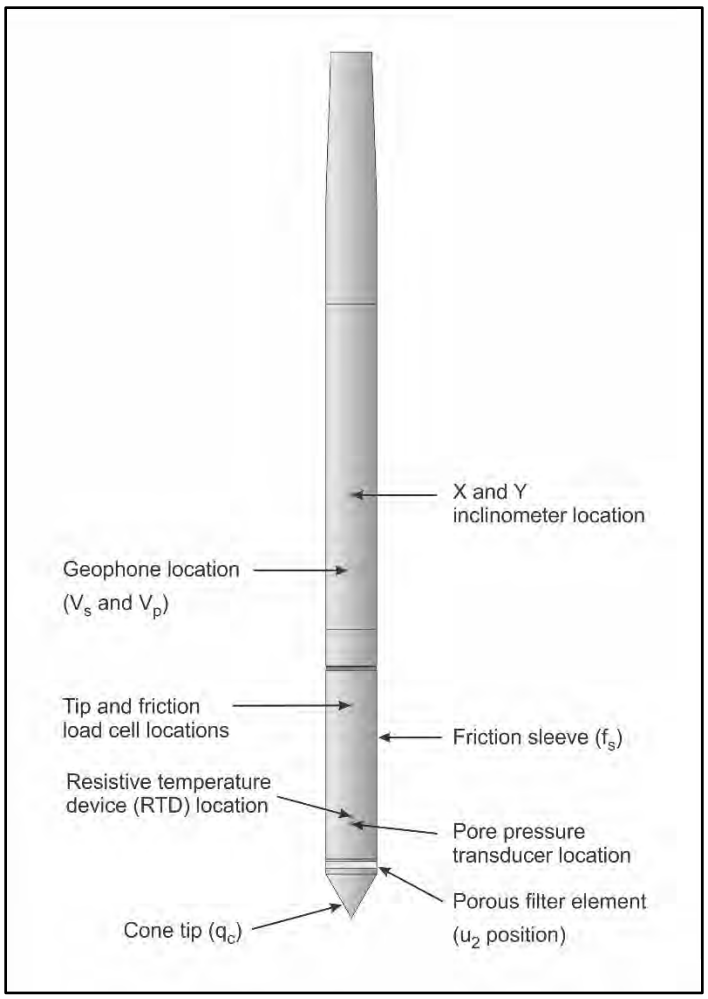


Figure CPTu. Piezocone Penetrometer (15 cm^2)

The ConeTec data acquisition systems consist of a Windows based computer and a signal interface box and power supply. The signal interface combines depth increment signals, seismic trigger signals and the downhole digital data. This combined data is then sent to the Windows based computer for collection and presentation. The data is recorded at fixed depth increments using a depth wheel attached to the push cylinders or by using a spring loaded rubber depth wheel that is held against the cone rods. The typical recording interval is 2.5 centimeters; custom recording intervals are possible.

The system displays the CPTu data in real time and records the following parameters to a storage media during penetration:

- Depth
- Uncorrected tip resistance (q_c)
- Sleeve friction (f_s)
- Dynamic pore pressure (u)
- Additional sensors such as resistivity, passive gamma, ultra violet induced fluorescence, if applicable

All testing is performed in accordance to ConeTec's CPTu operating procedures which are in general accordance with the current ASTM D5778 standard.

Prior to the start of a CPTu sounding a suitable cone is selected, the cone and data acquisition system are powered on, the pore pressure system is saturated with silicone oil and the baseline readings are recorded with the cone hanging freely in a vertical position.

The CPTu is conducted at a steady rate of two centimeters per second, within acceptable tolerances. Typically one meter length rods with an outer diameter of 1.5 inches (38.1 millimeters) are added to advance the cone to the sounding termination depth. After cone retraction final baselines are recorded.

Additional information pertaining to ConeTec's cone penetration testing procedures:

- Each filter is saturated in silicone oil under vacuum pressure prior to use
- Baseline readings are compared to previous readings
- Soundings are terminated at the client's target depth or at a depth where an obstruction is encountered, excessive rod flex occurs, excessive inclination occurs, equipment damage is likely to take place, or a dangerous working environment arises
- Differences between initial and final baselines are calculated to ensure zero load offsets have not occurred and to ensure compliance with ASTM standards

The interpretation of piezocone data for this report is based on the corrected tip resistance (q_t), sleeve friction (f_s) and pore water pressure (u). The interpretation of soil type is based on the correlations developed by Robertson et al. (1986) and Robertson (1990, 2009). It should be noted that it is not always possible to accurately identify a soil behavior type based on these parameters. In these situations, experience, judgment and an assessment of other parameters may be used to infer soil behavior type.

The recorded tip resistance (q_c) is the total force acting on the piezocone tip divided by its base area. The tip resistance is corrected for pore pressure effects and termed corrected tip resistance (q_t) according to the following expression presented in Robertson et al. (1986):

$$q_t = q_c + (1\text{-}a) \bullet u_2$$

where: q_t is the corrected tip resistance
q_c is the recorded tip resistance
u_2 is the recorded dynamic pore pressure behind the tip (u_2 position)
a is the Net Area Ratio for the piezocone (0.8 for ConeTec probes)

The sleeve friction (f_s) is the frictional force on the sleeve divided by its surface area. As all ConeTec piezocones have equal end area friction sleeves, pore pressure corrections to the sleeve data are not required.

The dynamic pore pressure (u) is a measure of the pore pressures generated during cone penetration. To record equilibrium pore pressure, the penetration must be stopped to allow the dynamic pore pressures to stabilize. The rate at which this occurs is predominantly a function of the permeability of the soil and the diameter of the cone.

The friction ratio (R_f) is a calculated parameter. It is defined as the ratio of sleeve friction to the tip resistance expressed as a percentage. Generally, saturated cohesive soils have low tip resistance, high friction ratios and generate large excess pore water pressures. Cohesionless soils have higher tip resistances, lower friction ratios and do not generate significant excess pore water pressure.

A summary of the CPTu soundings along with test details and individual plots are provided in the appendices. A set of files with calculated geotechnical parameters were generated for each sounding based on published correlations and are provided in Excel format in the data release folder. Information regarding the methods used is also included in the data release folder.

For additional information on CPTu interpretations and calculated geotechnical parameters, refer to Robertson et al. (1986), Lunne et al. (1997), Robertson (2009), Mayne (2013, 2014) and Mayne and Peuchen (2012).

References

ASTM D5778-20, 2020, "Standard Test Method for Performing Electronic Friction Cone and Piezocone Penetration Testing of Soils", ASTM International, West Conshohocken, PA. DOI: 10.1520/D5778-20.

Lunne, T., Robertson, P.K. and Powell, J. J. M., 1997, “Cone Penetration Testing in Geotechnical Practice”, Blackie Academic and Professional.

Mayne, P.W., 2013, “Evaluating yield stress of soils from laboratory consolidation and in-situ cone penetration tests”, Sound Geotechnical Research to Practice (Holtz Volume) GSP 230, ASCE, Reston/VA: 406-420. DOI: 10.1061/9780784412770.027.

Mayne, P.W. and Peuchen, J., 2012, “Unit weight trends with cone resistance in soft to firm clays”, Geotechnical and Geophysical Site Characterization *4,* Vol. 1 (Proc. ISC-4, Pernambuco), CRC Press, London: 903-910.

Mayne, P.W., 2014, “Interpretation of geotechnical parameters from seismic piezocone tests”, CPT’14 Keynote Address, Las Vegas, NV, May 2014.

Robertson, P.K., Campanella, R.G., Gillespie, D. and Greig, J., 1986, “Use of Piezometer Cone Data”, Proceedings of InSitu 86, ASCE Specialty Conference, Blacksburg, Virginia.

Robertson, P.K., 1990, “Soil Classification Using the Cone Penetration Test”, Canadian Geotechnical Journal, Volume 27: 151-158. DOI: 10.1139/T90-014.

Robertson, P.K., 2009, “Interpretation of cone penetration tests – a unified approach”, Canadian Geotechnical Journal, Volume 46: 1337-1355. DOI: 10.1139/T09-065.

The cone penetration test is halted at specific depths to carry out pore pressure dissipation (PPD) tests, shown in Figure PPD-1. For each dissipation test the cone and rods are decoupled from the rig and the data acquisition system measures and records the variation of the pore pressure (u) with time (t).

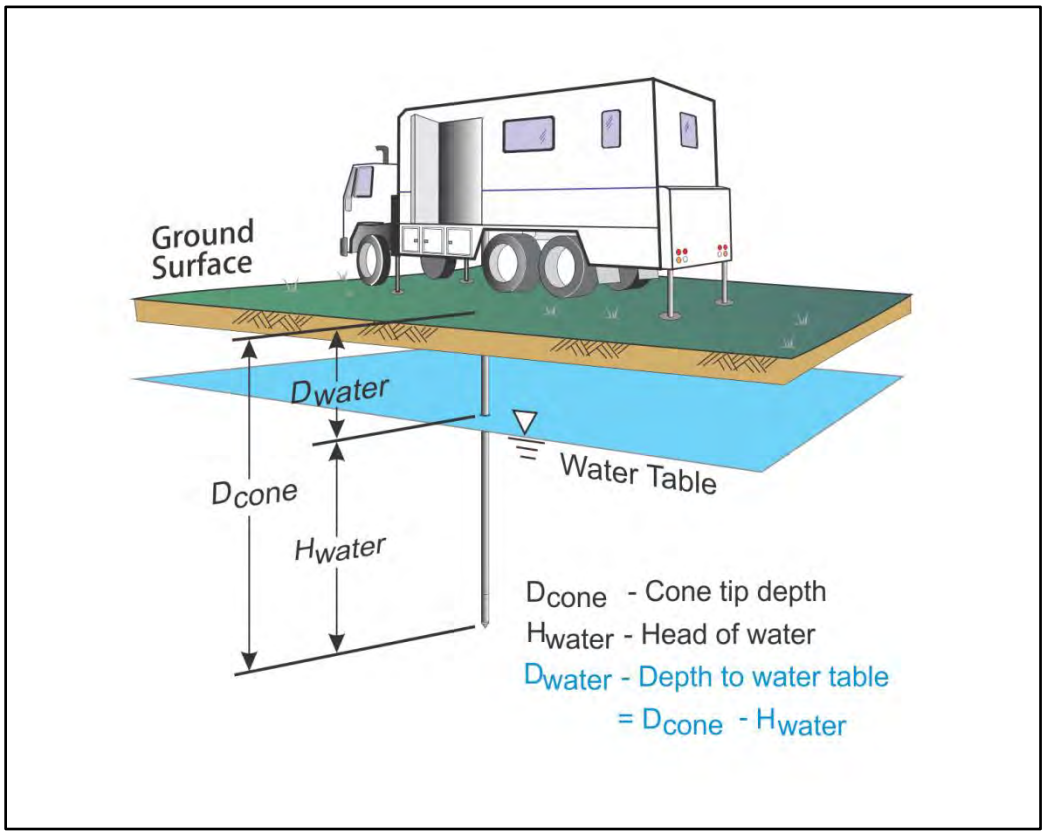


Figure PPD-1. Pore pressure dissipation test setup

Pore pressure dissipation data can be interpreted to provide estimates of ground water conditions, permeability, consolidation characteristics and soil behavior.

The typical shapes of dissipation curves shown in Figure PPD-2 are very useful in assessing soil type, drainage, in situ pore pressure and soil properties. A flat curve that stabilizes quickly is typical of a freely draining sand. Undrained soils such as clays will typically show positive excess pore pressure and have long dissipation times. Dilative soils will often exhibit dynamic pore pressures below equilibrium that then rise over time. Overconsolidated fine-grained soils will often exhibit an initial dilatory response where there is an initial rise in pore pressure before reaching a peak and dissipating.

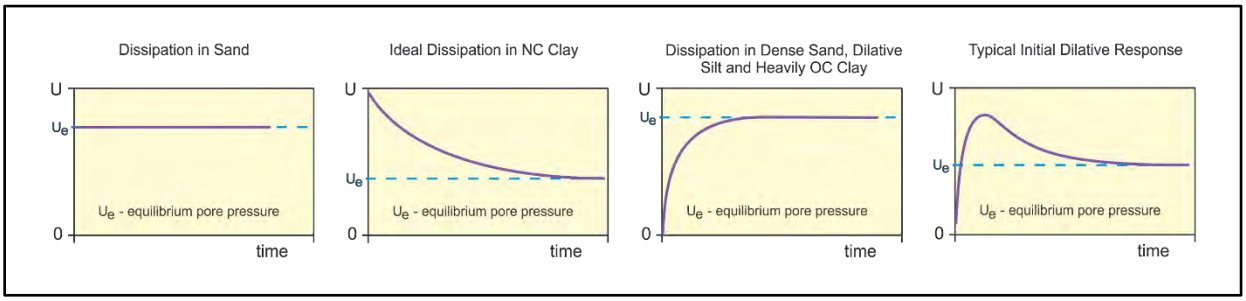


Figure PPD-2. Pore pressure dissipation curve examples

In order to interpret the equilibrium pore pressure (u_{eq}) and the apparent phreatic surface, the pore pressure should be monitored until such time as there is no variation in pore pressure with time as shown for each curve in Figure PPD-2.

In fine grained deposits the point at which 100% of the excess pore pressure has dissipated is known as t_{100}. In some cases this can take an excessive amount of time and it may be impractical to take the dissipation to t_{100}. A theoretical analysis of pore pressure dissipations by Teh and Houlsby (1991) showed that a single curve relating degree of dissipation versus theoretical time factor (T*) may be used to calculate the coefficient of consolidation (c_h) at various degrees of dissipation resulting in the expression for c_h shown below.

$$c_h = \frac{T^* \cdot a^2 \cdot \sqrt{I_r}}{t}$$

Where:

T* is the dimensionless time factor (Table Time Factor)
a is the radius of the cone
I_r is the rigidity index
t is the time at the degree of consolidation

Table Time Factor. T* versus degree of dissipation (Teh and Houlsby (1991))

Degree of Dissipation (%)	20	30	40	50	60	70	80
T* (u_2)	0.038	0.078	0.142	0.245	0.439	0.804	1.60

The coefficient of consolidation is typically analyzed using the time (t_{50}) corresponding to a degree of dissipation of 50% (u_{50}). In order to determine t_{50}, dissipation tests must be taken to a pressure less than u_{50}. The u_{50} value is half way between the initial maximum pore pressure and the equilibrium pore pressure value, known as u_{100}. To estimate u_{50}, both the initial maximum pore pressure and u_{100} must be known or estimated. Other degrees of dissipations may be considered, particularly for extremely long dissipations.

At any specific degree of dissipation the equilibrium pore pressure (u at t_{100}) must be estimated at the depth of interest. The equilibrium value may be determined from one or more sources such as measuring the value directly (u_{100}), estimating it from other dissipations in the same profile, estimating the phreatic surface and assuming hydrostatic conditions, from nearby soundings, from client provided information, from site observations and/or past experience, or from other site instrumentation.

For calculations of c_h (Teh and Houlsby (1991)), t_{50} values are estimated from the corresponding pore pressure dissipation curve and a rigidity index (I_r) is assumed. For curves having an initial dilatory response in which an initial rise in pore pressure occurs before reaching a peak, the relative time from the peak value is used in determining t_{50}. In cases where the time to peak is excessive, t_{50} values are not calculated.

A summary of the pore pressure dissipation tests and dissipation plots are presented in the relevant appendix.

References

Teh, C.I., and Houlsby, G.T., 1991, “An analytical study of the cone penetration test in clay”, Geotechnique, 41(1): 17-34. DOI: 10.1680/geot.1991.41.1.17.

CPT Data Files (COR Extension)

ConeTec CPT data files are stored in ASCII text files that are readable by almost any text editor. ConeTec file names start with the job number (which includes the two digit year number) an underscore as a separating character, followed by two letters based on the type of test and the sounding ID. The last character position is reserved for an identifier letter (such as b, c, d etc) used to uniquely distinguish multiple soundings at the same location. The CPT sounding file has the extension COR. As an example, for job number 21-02-00001 the first CPT sounding will have file name 21-02-00001_CP01.COR

The sounding (COR) file consists of the following components:

1. Two lines of header information
2. Data records
3. End of data marker
4. Units information

Header Lines

Line 1: Columns 1-6 may be blank or may indicate the version number of the recording software
Columns 7-21 contain the sounding Date and Time (Date is MM:DD:YY)
Columns 23-38 contain the sounding Operator
Columns 51-100 contain extended Job Location information

Line 2: Columns 1-16 contain the Job Location
Columns 17-32 contain the Cone ID
Columns 33-47 contain the sounding number
Columns 51-100 may contain extended sounding ID information

Data Records

The data records contain 4 or more columns of data in floating point format. A comma and spaces separate each data item:

Column 1: Sounding Depth (meters)
Column 2: Tip (q_c), recorded in units selected by the operator
Column 3: Sleeve (f_s), recorded in units selected by the operator
Column 4: Dynamic pore pressure (u), recorded in units selected by the operator
Column 5: Empty or may contain other requested data such as Gamma, Resistivity or UVIF data

End of Data Marker

After the last line of data there is a line containing an ASCII 26 (CTL-Z) character (small rectangular shaped character) followed by a newline (carriage return / line feed). This is used to mark the end of data.

Units Information

The last section of the file contains information about the units that were selected for the sounding. A separator bar makes up the first line. The second line contains the type of units used for depth, q_c, f_s and u. The third line contains the conversion values required for ConeTec's software to convert the recorded data to an internal set of base units (bar for q_c, bar for f_s and meters for u). Additional lines intended for internal ConeTec use may appear following the conversion values.

CPT Data Files (XLS Extension)

Excel format files of ConeTec CPT data are also generated from corresponding COR files. The XLS files have the same base file name as the COR file with a -BSC suffix. The information in the file is presented in table format and contains additional information about the sounding such as coordinate information, and tip net area ratio.

The BSCI suffix is given to XLS files which are enhanced versions of the BSC files and include the same data records in addition to inclination data collected for each sounding.

CPT Dissipation Files (XLS Extension)

Pore pressure dissipation files are provided in Excel format and contain each dissipation trace that exceeds a minimum duration (selected during post-processing) formatted column wise within the spreadsheet. The first column (Column A) contains the time in seconds and the second column (Column B) contains the time in minutes. Subsequent columns contain the dissipation trace data. The columns extend to the longest trace of the data set.

Detailed header information is provided at the top of the worksheet. The test depth in meters and feet, the number of points in the trace and the particular units are all presented at the top of each trace column.

CPT Dissipation files have the same naming convention as the CPT sounding files with a "–PPD" suffix.

Data Records

Each file will contain dissipation traces that exceed a minimum duration (selected during post-processing) in a particular column. The dissipation pore pressure values are typically recorded at varying time intervals throughout the trace; rapidly to start and increasing as the duration of the test lengthens. The test depth in meters and feet, the number of points in the trace and the trace number are identified at the top of each trace column.

Cone Type Designations

Cone ID	Cone Description	Tip Cross Sect. Area (cm^2)	Tip Capacity (bar)	Sleeve Area (cm^2)**	Sleeve Capacity (bar)	Pore Pressure Capacity (bar)
EC###	A15T1500F15U35	15	1500	225	15	35
EC###	A15T375F10U35	15	375	225	10	35
EC###	A10T1000F10U35	10	1000	150	10	35

refers to the Cone ID number
**Outer Cylindrical Area

Description of Methods for Calculated CPT Geotechnical Parameters

CALCULATED CPT GEOTECHNICAL PARAMETERS

A Detailed Description of the Methods Used in ConeTec's CPT Geotechnical Parameter Calculation and Plotting Software



Revision SZW-Rev 14

Revised November 26, 2019
Prepared by Jim Greig, M.A.Sc, P.Eng (BC)

Limitations

The geotechnical parameter output was prepared specifically for the site and project named in the accompanying report subject to objectives, site conditions and criteria provided to ConeTec by the client. The output may not be relied upon by any other party or for any other site without the express written permission of ConeTec Group (ConeTec) or any of its affiliates. For this project, ConeTec has provided site investigation services, prepared factual data reporting and produced geotechnical parameter calculations consistent with current best practices. No other warranty, expressed or implied, is made.

To understand the calculations that have been performed and to be able to reproduce the calculated parameters the user is directed to the basic descriptions for the methods in this document and the detailed descriptions and their associated limitations and appropriateness in the technical references cited for each parameter.

ConeTec's Calculated CPT Geotechnical Parameters as of November 26, 2019

ConeTec's CPT parameter calculation and plotting routine provides a tabular output of geotechnical parameters based on current published CPT correlations and is subject to change to reflect the current state of practice. Due to drainage conditions and the basic assumptions and limitations of the correlations, not all geotechnical parameters provided are considered applicable for all soil types. The results are presented only as a guide for geotechnical use and should be carefully examined for consideration in any geotechnical design. Reference to current literature is strongly recommended. ConeTec does not warranty the correctness or the applicability of any of the geotechnical parameters calculated by the program and does not assume liability for any use of the results in any design or review. For verification purposes we recommend that representative hand calculations be done for any parameter that is critical for design purposes. The end user of the parameter output should also be fully aware of the techniques and the limitations of any method used by the program. The purpose of this document is to inform the user as to which methods were used and to direct the end user to the appropriate technical papers and/or publications for further reference.

The geotechnical parameter output was prepared specifically for the site and project named in the accompanying report subject to objectives, site conditions and criteria provided to ConeTec by the client. The output may not be relied upon by any other party or for any other site without the express written permission of ConeTec Group (ConeTec) or any of its affiliates.

The CPT calculations are based on values of tip resistance, sleeve friction and pore pressures considered at each data point or averaged over a user specified layer thickness (e.g. 0.20 m). Note that q_t is the tip resistance corrected for pore pressure effects and q_c is the recorded tip resistance. The corrected tip resistance (corrected using u_2 pore pressure values) is used for all of the calculations. Since all ConeTec cones have equal end area friction sleeves pore pressure corrections to sleeve friction, f_s, are not required.

The tip correction is: $q_t = q_c + (1-a) \bullet u_2$ (consistent units are implied)

where: q_t is the corrected tip resistance
q_c is the recorded tip resistance
u_2 is the recorded dynamic pore pressure behind the tip (u_2 position)
a is the Net Area Ratio for the cone (typically 0.80 for ConeTec cones)

The total stress calculations are based on soil unit weight values that have been assigned to the Soil Behavior Type (SBT) zones, from a user defined unit weight profile, by using a single uniform value throughout the profile, through unit weight estimation techniques described in various technical papers or from a combination of these methods. The parameter output files indicate the method(s) used.

Effective vertical overburden stresses are calculated based on a hydrostatic distribution of equilibrium pore pressures below the water table or from a user defined equilibrium pore pressure profile (typically obtained from CPT dissipation tests) or a combination of the two. For over water projects the stress effects of the column of water above the mudline have been taken into account as has the appropriate unit weight of water. How this is done depends on where the instruments were zeroed (i.e. on deck or at the mudline). The parameter output files indicate the method(s) used.

A majority of parameter calculations are derived or driven by results based on material types as determined by the various soil behavior type charts depicted in Figures 1 through 5. The parameter output files indicate the method(s) used.

The Soil Behavior Type classification chart shown in Figure 1 is the classic non-normalized SBT Chart developed at the University of British Columbia and reported in Robertson, Campanella, Gillespie and Greig (1986). Figure 2 shows the original normalized (linear method) SBT chart developed by Robertson (1990). The Bq classification charts shown in Figures 3a and 3b incorporate pore pressures into the SBT classification and are based on the methods described in Robertson (1990). Many of these charts have been summarized in Lunne, Robertson and Powell (1997). The

Jefferies and Davies SBT chart shown in Figure 3c is based on the techniques discussed in Jefferies and Davies (1993) which introduced the concept of the Soil Behavior Type Index parameter, I_c. Please note that the I_c parameter developed by Robertson and Fear (1995) and Robertson and Wride (1998) is similar in concept but uses a slightly different calculation method than that used by Jefferies and Davies (1993) as the latter incorporates pore pressure in their technique through the use of the Bq parameter. The normalized Qtn SBT chart shown in Figure 4 is based on the work by Robertson (2009) utilizing a variable stress ratio exponent, n, for normalization based on a slightly modified redefinition and iterative approach for I_c. The boundary curves drawn on the chart are based on the work described in Robertson (2010).

Figure 5 shows a revised behavior based chart by Robertson (2016) depicting contractive-dilative zones. As the zones represent material behavior rather than soil gradation ConeTec has chosen a set of zone colors that are less likely to be confused with material type colors from previous SBT charts. These colors differ from those used by Dr. Robertson.

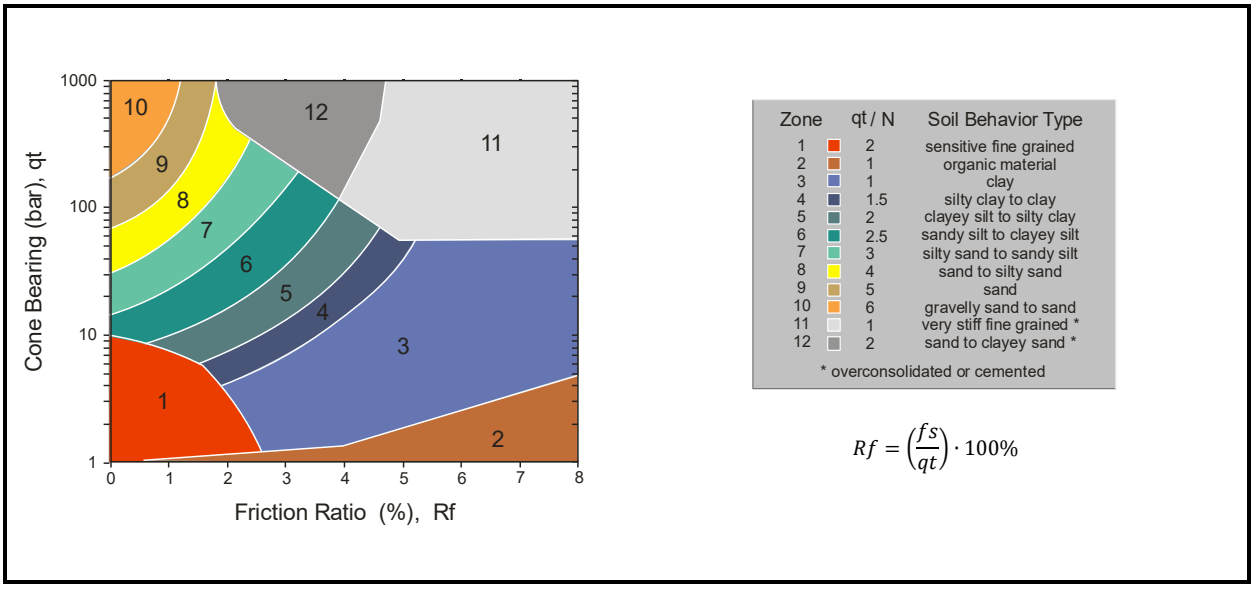


Figure 1. Non-Normalized Soil Behavior Type Classification Chart (SBT)

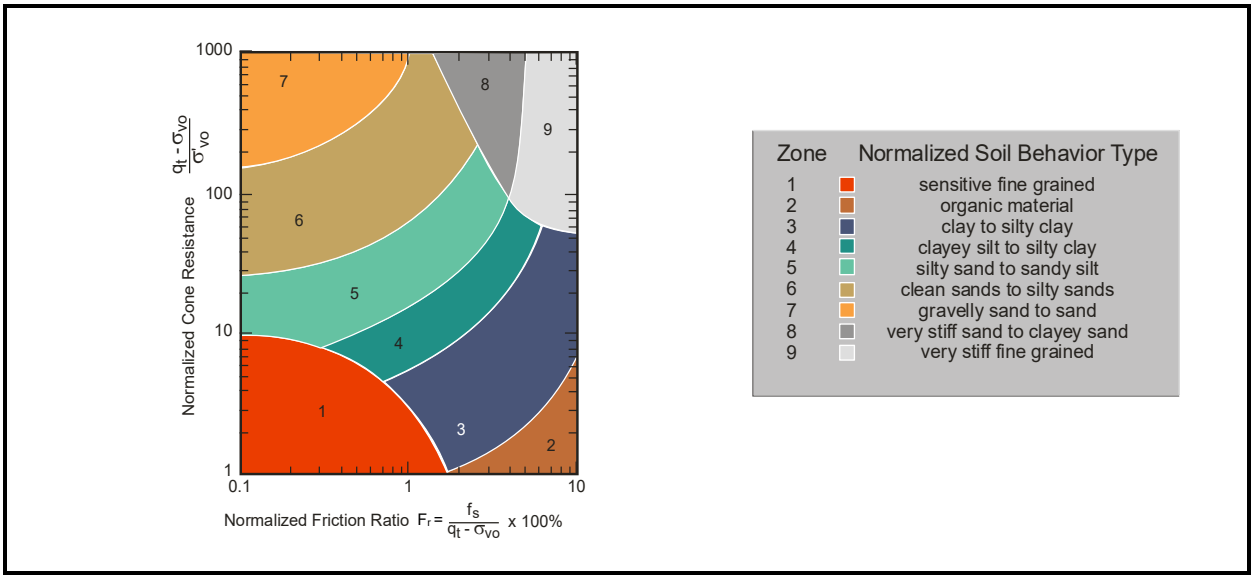


Figure 2. Normalized Soil Behavior Type Classification Chart (SBTn)

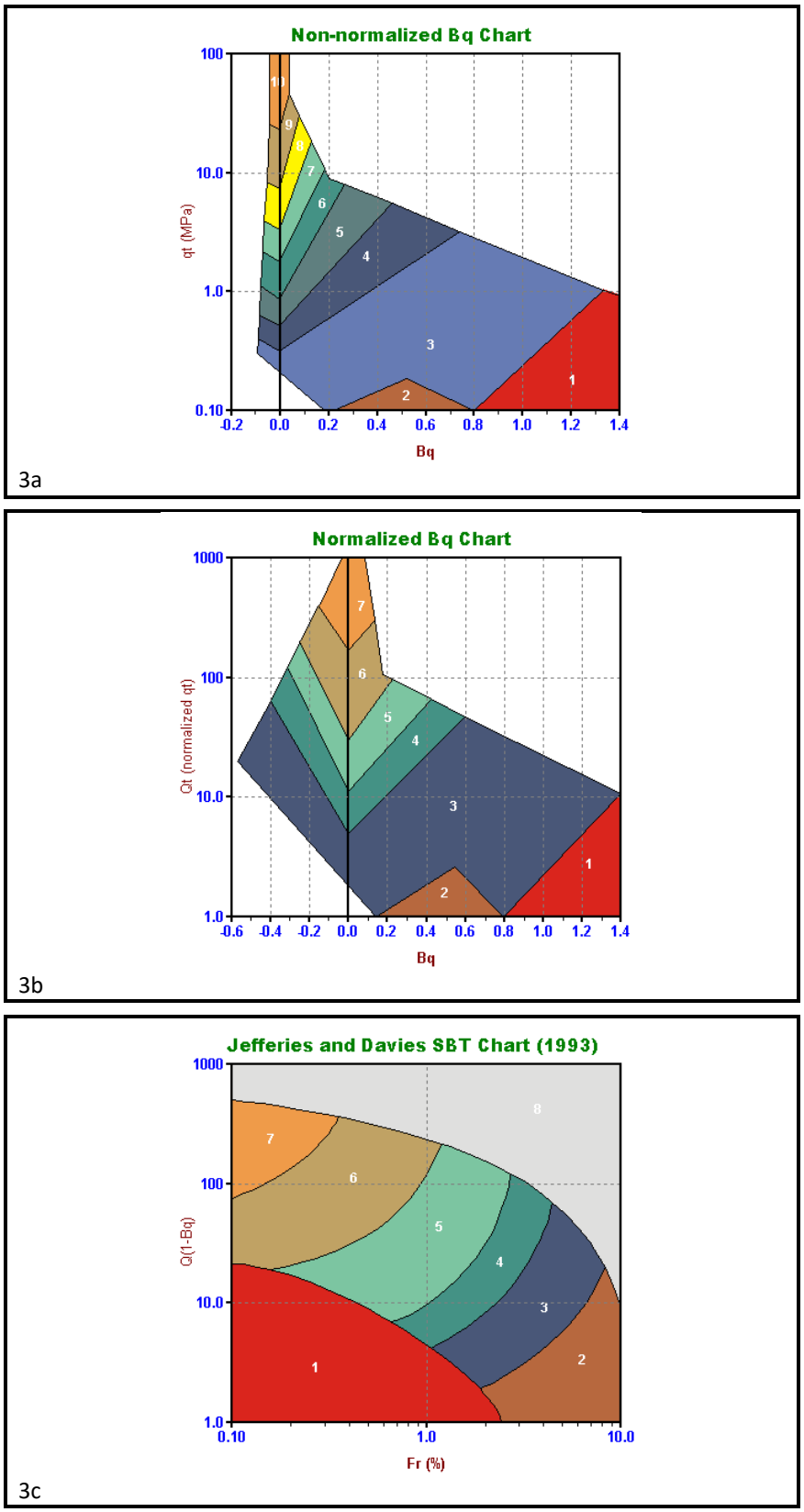


Figure 3. Alternate Soil Behavior Type Charts

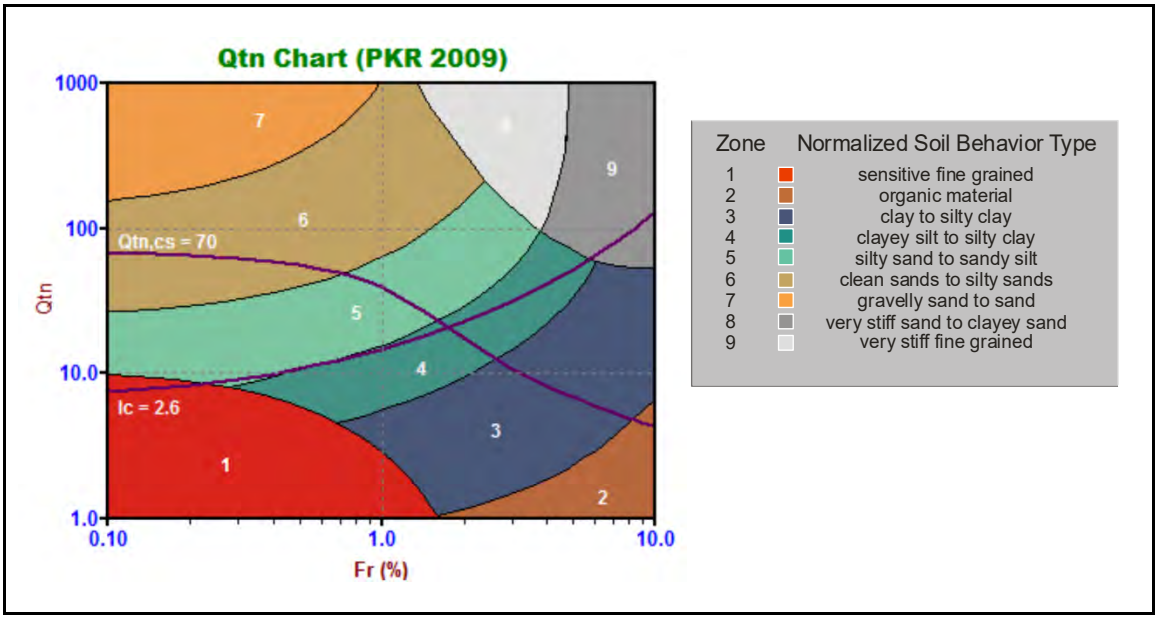


Figure 4. Normalized Soil Behavior Type Chart using Q_{tn} (SBT Qtn)

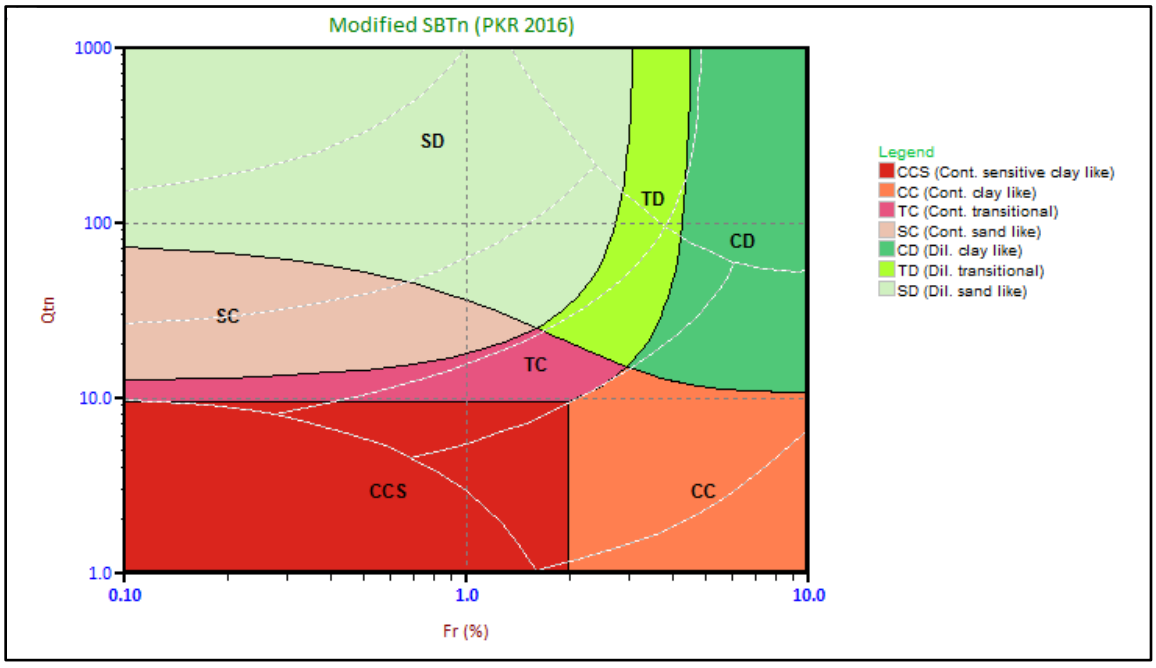


Figure 5. Modified SBTn Behavior Based Chart

Details regarding the geotechnical parameter calculations are provided in Tables 1a and 1b. The appropriate references cited are listed in Table 2. Non-liquefaction specific parameters are detailed in Table 1a and liquefaction specific parameters are detailed in Table 1b.

Where methods are based on charts or techniques that are too complex to describe in this summary the user should refer to the cited material. Specific limitations for each method are described in the cited material.

Where the results of a calculation/correlation are deemed *'invalid'* the value will be represented by the text strings "-9999", "-9999.0", the value 0.0 (Zero) or an empty cell. Invalid results will occur because of (and not limited to) one or a combination of:

1. Invalid or undefined CPT data (e.g. drilled out section or data gap).
2. Where the calculation method is inappropriate, for example, drained parameters in a material behaving as an undrained material (and vice versa).
3. Where input values are beyond the range of the referenced charts or specified limitations of the correlation method.
4. Where pre-requisite or intermediate parameter calculations are invalid.

The parameters selected for output from the program are often specific to a particular project. As such, not all of the calculated parameters listed in Table 1 may be included in the output files delivered with this report.

The output files are typically provided in Microsoft Excel XLS or XLSX format. The ConeTec software has several options for output depending on the number or types of calculated parameters desired or requested by the client. Each output file is named using the original COR file base name followed by a three or four letter indicator of the output set selected (e.g. BSC, TBL, NLI, NL2, IFI, IFI2) and possibly followed by an operator selected suffix identifying the characteristics of the particular calculation run.

Table 1a. CPT Parameter Calculation Methods – Non liquefaction Parameters

Calculated Parameter	Description	Equation	Ref
Depth	Mid Layer Depth *(where calculations are done at each point then Mid Layer Depth = Recorded Depth)*	*[Depth (Layer Top) + Depth (Layer Bottom)]/ 2.0*	CK*
Elevation	Elevation of Mid Layer based on sounding collar elevation supplied by client or through site survey	Elevation = Collar Elevation - Depth	CK*
Avg qc	Averaged recorded tip value (q_c)	$Avgqc = \frac{1}{n}\sum_{i=1}^{n} q_c$ *n=1 when calculations are done at each point*	CK*
Avg qt	Averaged corrected tip (q_t) where: $q_t = q_c + (1-a) \bullet u_2$	$Avgqt = \frac{1}{n}\sum_{i=1}^{n} q_t$ *n=1 when calculations are done at each point*	1
Avg fs	Averaged sleeve friction (f_s)	$Avgfs = \frac{1}{n}\sum_{i=1}^{n} fs$ *n=1 when calculations are done at each point*	CK*
Avg Rf	Averaged friction ratio (R_f) where friction ratio is defined as: $Rf = 100\% \bullet \frac{fs}{q_t}$	$AvgRf = 100\% \cdot \frac{Avgfs}{Avgqt}$ *n=1 when calculations are done at each point*	CK*
Avg u	Averaged dynamic pore pressure *(u)*	$Avgu = \frac{1}{n}\sum_{i=1}^{n} u_i$ *n=1 when calculations are done at each point*	CK*

Calculated Parameter	Description	Equation	Ref
Avg Res	Averaged Resistivity (this data is not always available since it is a specialized test requiring an additional module)	$AvgRes = \frac{1}{n}\sum_{i=1}^{n} Resistivity_i$ *n=1 when calculations are done at each point*	CK*
Avg UVIF	Averaged UVIF ultra-violet induced fluorescence (this data is not always available since it is a specialized test requiring an additional module)	$AvgUVIF = \frac{1}{n}\sum_{i=1}^{n} UVIF_i$ *n=1 when calculations are done at each point*	CK*
Avg Temp	Averaged Temperature (this data is not always available since it requires specialized calibrations)	$AvgTemp = \frac{1}{n}\sum_{i=1}^{n} Temperature_i$ *n=1 when calculations are done at each point*	CK*
Avg Gamma	Averaged Gamma Counts (this data is not always available since it is a specialized test requiring an additional module)	$AvgGamma = \frac{1}{n}\sum_{i=1}^{n} Gamma_i$ *n=1 when calculations are done at each point*	CK*
SBT	Soil Behavior Type as defined by Robertson et al 1986 (often referred to as Robertson and Campanella, 1986)	See Figure 1	1, 5
SBTn	Normalized Soil Behavior Type as defined by Robertson 1990 (linear normalization)	See Figure 2	2, 5
SBT-Bq	Non-normalized Soil Behavior type based on the Bq parameter	See Figure 3	1, 2, 5
SBT-Bqn	Normalized Soil Behavior based on the Bq parameter	See Figure 3	2, 5
SBT-JandD	Soil Behavior Type as defined by Jeffries and Davies	See Figure 3	7
SBT Qtn	Soil Behavior Type as defined by Robertson (2009) using a variable stress ratio exponent for normalization based on I_c	See Figure 4	15
Modified SBTn (contractive /dilative)	Modified SBTn chart as defined by Robertson (2016) indicating zones of contractive/dilative behavior.	See Figure 5	30
Unit Wt.	Unit Weight of soil determined from one of the following user selectable options: 1) uniform value 2) value assigned to each SBT zone 3) value assigned to each SBTn zone 4) value assigned to SBTn zone as determined from Robertson and Wride (1998) based on q_{c1n} 5) values assigned to SBT Qtn zones 6) Mayne fs (sleeve friction) method 7) Robertson 2010 method 8) user supplied unit weight profile The last option may co-exist with any of the other options	See references	3, 5, 15, 21, 24, 29

Calculated Parameter	Description	Equation	Ref
TStress σ_v	Total vertical overburden stress at Mid Layer Depth *A layer is defined as the averaging interval specified by the user where depths are reported at their respective mid-layer depth.* *For data calculated at each point layers are defined using the recorded depth as the mid-point of the layer. Thus, a layer starts half-way between the previous depth and the current depth unless this is the first point in which case the layer start is at zero depth. The layer bottom is half-way from the current depth to the next depth unless it is the last data point.* *Defining layers affects how stresses are calculated since the unit weight attributed to a data point is used throughout the entire layer. This means that to calculate the stresses the total stress at the top and bottom of a layer are required. The stress at mid layer is determined by adding the incremental stress from the layer top to the mid-layer depth. The stress at the layer bottom becomes the stress at the top of the subsequent layer. Stresses are NOT calculated from mid-point to mid-point.* *For over-water work the total stress due to the column of water above the mud line is taken into account where appropriate.*	$TStress = \sum_{i=1}^{n} \gamma_i h_i$ *where* γ_i is layer unit weight h_i is layer thickness	CK*
EStress σ_v'	Effective vertical overburden stress at mid-layer depth	$\sigma_v' = \sigma_v - u_{eq}$	CK*
Equil u u_{eq} or u_0	Equilibrium pore pressure determined from one of the following user selectable options: 1) hydrostatic below water table 2) user supplied profile 3) combination of those above When a user supplied profile is used/provided a linear interpolation is performed between equilibrium pore pressures defined at specific depths. If the profile values start below the water table then a linear transition from zero pressure at the water table to the first defined pointed is used. Equilibrium pore pressures may come from dissipation tests, adjacent piezometers or other sources. Occasionally, an extra equilibrium point ("assumed value") will be provided in the profile that does not come from a recorded value to smooth out any abrupt changes or to deal with material interfaces. These "assumed" values will be indicated on our plots and in tabular summaries.	For hydrostatic option: $u_{eq} = \gamma_w \cdot (D - D_{wt})$ where u_{eq} is equilibrium pore pressure γ_w is unit weight of water D is the current depth D_{wt} is the depth to the water table	CK*
K_0	Coefficient of earth pressure at rest, K_0	$K_O = (1 - \sin\Phi')\ OCR^{\sin\Phi'}$	17
C_n	Overburden stress correction factor used for $(N_1)_{60}$ and older CPT parameters	$C_n = (P_a/\sigma_v')^{0.5}$ where $0.0 < C_n < 2.0$ *(user adjustable, typically 1.7)* P_a *is atmospheric pressure (100 kPa)*	12
C_q	Overburden stress normalizing factor	$C_q = 1.8 / (0.8 + (\sigma_v'/P_a))$ where $0.0 < C_q < 2.0$ *(user adjustable)* P_a *is atmospheric pressure (100 kPa)*	3, 12

Calculated Parameter	Description	Equation	Ref
N_{60}	SPT N value at 60% energy calculated from q_t/N ratios assigned to each SBT zone. This method has abrupt N value changes at zone boundaries.	*See Figure 1*	5
(N1)60	SPT N_{60} value corrected for overburden pressure	$(N_1)_{60} = C_n \bullet N_{60}$	4
N60Ic	SPT N_{60} values based on the I_c parameter [as defined by Roberston and Wride 1998 (5), or by Robertson 2009 (15)].	$(q_t/P_a)/ N_{60} = 8.5 (1 – I_c/4.6)$ $(q_t/P_a)/ N_{60} = 10^{(1.1268 – 0.2817Ic)}$ Pa being atmospheric pressure	5 15, 31
(N1)60Ic	SPT N_{60} value corrected for overburden pressure (using N_{60} I_c). User has 3 options.	1) $(N_1)_{60}Ic = C_n \bullet (N_{60} I_c)$ 2) $q_{c1n}/ (N_1)_{60}I_c = 8.5 (1 – I_c/4.6)$ 3) $(Q_{tn})/ (N_1)_{60}I_c = 10^{(1.1268 – 0.2817Ic)}$	4 5 15, 31
Su or Su (Nkt)	Undrained shear strength based on q_t S_u factor N_{kt} is user selectable	$Su = \frac{qt - \sigma_v}{N_{kt}}$	1, 5
Su or Su (Ndu)	Undrained shear strength based on pore pressure S_u factor $N_{\Delta u}$ is user selectable	$Su = \frac{u_2 - u_{eq}}{N_{\Delta u}}$	1, 5
Dr	Relative Density determined from one of the following user selectable options: a) Ticino Sand b) Hokksund Sand c) Schmertmann (1978) d) Jamiolkowski (1985) - All Sands e) Jamiolkowski et al (2003) (various compressibilities, K_o)	See reference (methods a through d) Jamiolkowski et al (2003) reference	5 14
PHI ϕ	Friction Angle determined from one of the following user selectable options (methods a through d are for sands and method e is for silts and clays): a) Campanella and Robertson b) Durgunoglu and Mitchel c) Janbu d) Kulhawy and Mayne e) NTH method (clays and silts)	See appropriate reference	5 5 5 11 23
Delta U/qt	Differential pore pressure ratio (older parameter used before B_q was established)	$= \frac{\Delta u}{qt}$ *where:* $\Delta u = u - u_{eq}$ *and* u = *dynamic pore pressure* u_{eq} = *equilibrium pore pressure*	CK*
Bq	Pore pressure parameter	$Bq = \frac{\Delta u}{qt - \sigma_v}$ where : $\Delta u = u - u_{eq}$ *and* u = *dynamic pore pressure* u_{eq} = *equilibrium pore pressure*	1, 2, 5
Net qt or qtNet	Net tip resistance (used in many subsequent correlations)	$qt - \sigma_v$	CK*
qe	Effective tip resistance (using the dynamic pore pressure u_2 and not equilibrium pore pressure)	$qt - u_2$	CK*

Calculated Parameter	Description	Equation	Ref
qeNorm	Normalized effective tip resistance	$\frac{qt-u_2}{\sigma_v}$	CK*
Q_t or Norm: Qt	Normalized q_t for Soil Behavior Type classification as defined by Robertson (1990) using a linear stress normalization. Note this is different from Q_{tn}.	$Qt=\frac{qt-\sigma_v}{\sigma_v}$	2, 5
F_r or Norm: Fr	Normalized Friction Ratio for Soil Behavior Type classification as defined by Robertson (1990)	$Fr=100\%\cdot\frac{fs}{qt-\sigma_v}$	2, 5
Q(1-Bq)	Q(1-Bq) grouping as suggested by Jefferies and Davies for their classification chart and the establishment of their I_c parameter	$Q\cdot(1-Bq)$ *where Bq is defined as above and Q is the same as the normalized tip resistance, Q_t, defined above*	6, 7
qc1	Normalized tip resistance, q_{c1}, using a fixed stress ratio exponent, n (this method has stress units)	$q_{c1} = q_t \cdot (Pa/\sigma_v')^{0.5}$ where: Pa = atmospheric pressure	21
qc1 (0.5)	Normalized tip resistance, q_{c1}, using a fixed stress ratio exponent, n (this method is unit-less)	$q_{c1}\ (0.5) = (q_t/P_a) \cdot (Pa/\sigma_v')^{0.5}$ where: Pa = atmospheric pressure	5
qc1 (Cn)	Normalized tip resistance, q_{c1}, based on C_n (this method has stress units)	$q_{c1}(Cn) = C_n * q_t$	5, 12
qc1 (Cq)	Normalized tip resistance, q_{c1}, based on C_q (this method has stress units)	$q_{c1}(Cq) = C_q * q_t$ (some papers use q_c)	5, 12
qc1n	normalized tip resistance, q_{c1n}, using a variable stress ratio exponent, n (where n=0.0, 0.70, 1.0) (this method is unit-less)	$q_{c1n} = (q_t / P_a)(P_a/\sigma_v')^n$ where: P_a = atm. Pressure and n varies as described below	3, 5
I_c or Ic (RW1998)	Soil Behavior Type Index as defined by Robertson and Fear (1995) and Robertson and Wride (1998) for estimating grain size characteristics and providing smooth gradational changes across the SBTn chart	$I_c = [(3.47 - \log_{10}Q)^2 + (\log_{10} Fr + 1.22)^2]^{0.5}$ *Where:* $Q=\left(\frac{qt-\sigma_v}{P_a}\right)\left(\frac{P_a}{\sigma_v'}\right)^n$ *Or* $Q=q_{c1n}=\left(\frac{qt}{P_a}\right)\left(\frac{P_a}{\sigma_v'}\right)^n$ *depending on the iteration in determining I_c* *And* *Fr is in percent* *P_a = atmospheric pressure* *n varies between 0.5, 0.70 and 1.0 and is selected in an iterative manner based on the resulting I_c*	3, 5, 21
Ic (PKR 2009)	Soil Behavior Type Index, I_c (PKR 2009) based on a variable stress ratio exponent n, which itself is based on I_c (PKR 2009). An iterative calculation is required to determine Ic (PKR 2009) and its corresponding n (PKR 2009).	I_c (PKR 2009) = $[(3.47 - \log_{10}Q_{tn})^2 + (1.22 + \log_{10}F_r)^2]^{0.5}$	15

Calculated Parameter	Description	Equation	Ref
n (PKR 2009)	Stress ratio exponent n, based on I_c (PKR 2009). An iterative calculation is required to determine n (PKR 2009) and its corresponding Ic (PKR 2009).	*n (PKR 2009) = 0.381 (I_c) + 0.05 (σ_v'/P_a) – 0.15*	15
Qtn (PKR 2009)	Normalized tip resistance using a variable stress ratio exponent based on I_c (PKR 2009) and n (PKR 2009). An iterative calculation is required to determine Qtn (PKR 2009).	$Q_{tn} = [(qt - \sigma_v)/P_a](P_a/\sigma_v')^n$ *where P_a = atmospheric pressure (100 kPa)* *n = stress ratio exponent described above*	15
FC	Apparent fines content (%)	*FC=1.75($Ic^{3.25}$) - 3.7* *FC=100 for $I_c > 3.5$* *FC=0 for $I_c < 1.26$* *FC = 5% if 1.64 < I_c < 2.6 AND F_r<0.5*	3
I_c Zone	This parameter is the Soil Behavior Type zone based on the I_c parameter (valid for zones 2 through 7 on SBTn or SBT Qtn charts)	I_c < 1.31 Zone = 7 1.31 < I_c < 2.05 Zone = 6 2.05 < I_c < 2.60 Zone = 5 2.60 < I_c < 2.95 Zone = 4 2.95 < I_c < 3.60 Zone = 3 I_c > 3.60 Zone = 2	3
State Param or State Parameter or ψ	The state parameter index, ψ, is defined as the difference between the current void ratio, e, and the critical void ratio, e_c. Positive ψ - contractive soil Negative ψ - dilative soil This is based on the work by Been and Jefferies (1985) and Plewes, Davies and Jefferies (1992) - vertical effective stress is used rather than a mean normal stress	See reference	6, 8
Yield Stress σ_p'	Yield stress is calculated using the following methods a) General method b) 1st order approximation using q_tNet (clays) c) 1st order approximation using Δu_2 (clays) d) 1st order approximation using q_e (clays)	All stresses in kPa a) $\sigma_p' = 0.33 \cdot (q_t - \sigma_v)^{m'} (\sigma_{atm}/100)^{1-m'}$ where $m' = 1 - \frac{0.28}{1 + (I_c/2.65)^{25}}$ b) $\sigma_p' = 0.33 \cdot (q_t - \sigma_v)$ c) $\sigma_p' = 0.54 \cdot (\Delta u_2)$ $\Delta u_2 = u_2 - u_0$ d) $\sigma_p' = 0.60 \cdot (q_t - u_2)$	19 20 20 20
OCR OCR(JS1978) OCR(Mayne2014) OCR (qtNet) OCR (deltaU) OCR (qe) OCR (Vs) OCR (PKR2015)	Over Consolidation Ratio based on a) Schmertmann (1978) method involving a plot plot of S_u/σ_v' /($S_u/\sigma_v')_{NC}$ and OCR b) based on Yield stresses described above c) approximate version based on qtNet d) approximate version based on Δu e) approximate version based on effective tip, q_e f) approximate version based on shear wave velocity, V_s g) based on Qt	 a) requires a user defined value for NC Su/P_c' ratio b through f) *based on yield stresses* g) OCR = 0.25·$(Qt)^{1.25}$	 9 19 20 20 20 18 32

Calculated Parameter	Description	Equation	Ref
Es/qt	Intermediate parameter for calculating Young's Modulus, E, in sands. It is the Y axis of the reference chart.	Based on Figure 5.59 in the reference	5
Es Young's Modulus E	Young's Modulus based on the work done in Italy. There are three types of sands considered in this technique. The user selects the appropriate type for the site from: a) OC Sands b) Aged NC Sands c) Recent NC Sands Each sand type has a family of curves that depend on mean normal stress. The program calculates mean normal stress and linearly interpolates between the two extremes provided in the E_s/q_t chart. Es is evaluated for an axial strain of 0.1%.	Mean normal stress is evaluated from: $\sigma'_m = \frac{1}{3}(\sigma'_v + \sigma'_h + \sigma'_h)^3$ where σ_v'= vertical effective stress σ_h'= horizontal effective stress *and* $\sigma_h = K_o \bullet \sigma_v'$ with K_o assumed to be 0.5	5
Delta U/TStress	Differential pore pressure ratio with respect to total stress	$= \frac{\Delta u}{\sigma_v}$ *where:* $\Delta u = u - u_{eq}$	CK*
Delta U/Estress, P Value, Excess Pore Pressure Ratio	Differential pore pressure ratio with respect to effective stress. Key parameter (P, Normalized Pore Pressure Parameter, Excess Pore Pressure Ratio) in the Winckler et. al. static liquefaction method.	$= \frac{\Delta u}{\sigma'_v}$ *where:* $\Delta u = u - u_{eq}$	25, 25a, CK*
Su/EStress	Undrained shear strength ratio with respect to vertical effective overburden stress using the S_u (N_{kt}) method	$= Su\ (N_{kt}) / \sigma_v'$	CK*
Gmax	G_{max} determined from SCPT shear wave velocities (not estimated values)	$G_{max} = \rho V_s^2$ where ρ is the mass density of the soil determined from the estimated unit weights at each test depth	27
qtNet/Gmax	Net tip resistance ratio with respect to the small strain modulus G_{max} determined from SCPT shear wave velocities (not estimated values)	$= (qt - \sigma_v) / G_{max}$ where $G_{max} = \rho V_s^2$ and ρ is the mass density of the soil determined from the estimated unit weights at each test depth	15, 28, 30

*CK – common knowledge

Table 1b. CPT Parameter Calculation Methods – Liquefaction Parameters

Calculated Parameter	Description	Equation	Ref
K_{SPT}	Equivalent clean sand factor for $(N_1)60$	$K_{SPT} = 1 + ((0.75/30) \bullet (FC - 5))$	10
K_{CPT} or K_C (RW1998)	Equivalent clean sand correction for q_{c1N}	$K_{cpt} = 1.0$ for $I_c \leq 1.64$ $K_{cpt} = f(I_c)$ for $I_c > 1.64$ (see reference) $K_c = -0.403\ I_c^4 + 5.581\ I_c^3 - 21.63 I_c^2 + 33.75\ I_c - 17.88$	3, 10
Kc (PKR 2010)	Clean sand equivalent factor to be applied to Q_{tn}	$K_c = 1.0$ for $I_c \leq 1.64$ $K_c = -0.403\ I_c^4 + 5.581\ I_c^3 - 21.63 I_c^2 + 33.75\ I_c - 17.88$ for $I_c > 1.64$	16
$(N_1)_{60cs}Ic$	Clean sand equivalent SPT $(N_1)_{60}I_c$. User has 3 options.	1) $(N_1)_{60cs}Ic = \alpha + \beta((N_1)_{60}I_c)$ 2) $(N_1)_{60cs}Ic = K_{SPT} * ((N_1)_{60}I_c)$ 3) $(q_{c1ncs})/(N_1)_{60cs}I_c = 8.5\ (1 - I_c/4.6)$ FC ≤ 5%: $\alpha = 0,\ \beta = 1.0$ FC ≥ 35% $\alpha = 5.0,\ \beta = 1.2$ 5% < FC < 35% $\alpha = exp[1.76 - (190/FC^2)]$ $\beta = [0.99 + (FC^{1.5}/1000)]$	10 10 5
q_{c1ncs}	Clean sand equivalent q_{c1n}	$q_{c1ncs} = q_{c1n} \bullet K_{cpt}$	3
Qtn,cs (PKR 2010)	Clean sand equivalent for Q_{tn} described above - Q_{tn} being the normalized tip resistance based on a variable stress exponent as defined by Robertson (2009)	$Q_{tn,cs} = Q_{tn} \cdot K_c$ (PKR 2016)	16
Su(Liq)/ESv	Liquefied shear strength ratio as defined by Olson and Stark	$\frac{Su(Liq)}{\sigma_v'} = 0.03 + 0.0143(q_{c1})$ Note: σ_v' and s_v' are synonymous	13
Su(Liq)/ESv (PKR 2010)	Liquefied shear strength ratio as defined by Robertson (2010)	$\frac{Su(Liq)}{\sigma_v'}$ Based on a function involving $Q_{tn,cs}$	16
Su (Liq) (PKR 2010)	Liquefied shear strength derived from the liquefied shear strength ratio and effective overburden stress		16
Cont/Dilat Tip	Contractive / Dilative qc1 Boundary based on $(N_1)_{60}$	$(\sigma_v')_{boundary} = 9.58 \times 10^{-4}\ [(N_1)_{60}]^{4.79}$ *qc1* is calculated from specified qt(MPa)/N ratio	13
CRR	Cyclic Resistance Ratio (for Magnitude 7.5)	$q_{c1ncs} < 50$: $CRR_{7.5} = 0.833\ [q_{c1ncs}/1000] + 0.05$ $50 \leq q_{c1ncs} < 160$: $CRR_{7.5} = 93\ [q_{c1ncs}/1000]^3 + 0.08$	10
Kg	Small strain Stiffness Ratio Factor, Kg	[Gmax/qt]/[qc1n^{-m}] m = empirical exponent, typically 0.75	26

Calculated Parameter	Description	Equation	Ref
SP Distance	State Parameter Distance, Winckler static liquefaction method	Perpendicular distance on Qtn chart from plotted point to state parameter Ψ = -0.05 curve	25
URS NP Fr	Normalized friction ratio point on Ψ = -0.05 curve used in SP Distance calculation		25
URS NP Qtn	Normalized tip resistance (Qtn) point on Ψ = -0.05 curve used in SP Distance calculation		25

Table 2. References

No.	Reference
1	Robertson, P.K., Campanella, R.G., Gillespie, D. and Greig, J., 1986, "Use of Piezometer Cone Data", Proceedings of InSitu 86, ASCE Specialty Conference, Blacksburg, Virginia.
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TEST PIT LOG

Test Pit Number
2-TP1

Project Name: 38600 Cedar Boulevard			Lat.: 37.53184°
Project Location: Newark, CA			Long.: -122.00824°
Project No.: 15799.004.000	Logged By: K. Krisan	Contr.: Central Pacific Services	Equipment: Backhoe
Date Started: 09/08/22	Date Completed: 09/08/22	Total Depth: 11.5 feet	Groundwater: N/A

Depth (ft)	Soil/Rock Descriptions
0 – 2	3” AC, 6” AB Lean CLAY with sand (CL), black mottled with light gray, very stiff, moist, medium plasticity, fine-grained [FILL] Pocket Penetrometer = 2.5 tsf
2 – 7	Lean CLAY (CL), black, very stiff, moist, medium plasticity, fine-grained [Qal] at 5 feet - greenish gray mottled with yellowish brown, blocky, iron-oxide staining Pocket Penetrometer = 3 tsf
7 – 9.5	Clayey SAND (SC), dark gray, medium dense, moist, fine- to coarse-grained, angular to subrounded at 8 feet – with gravel, fine, sub-angular to rounded
9.5 – 11.5	Sandy Lean CLAY (CL), olive gray, stiff, moist, medium plasticity, fine-grained

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TEST PIT LOG

Test Pit Number
2-TP2

Project Name: 38600 Cedar Boulevard			Lat.: 37.53230°
Project Location: Newark, CA			Long.: -122.00781°
Project No.: 15799.004.000	Logged By: K. Krisan	Contr.: Central Pacific Services	Equipment: Backhoe
Date Started: 09/08/22	Date Completed: 09/08/22	Total Depth: 10 feet	Groundwater: N/A

Depth (ft)	Soil/Rock Descriptions
0 – 2.5	Poorly graded GRAVEL with sand (GP), brown, medium dense, moist, fine to coarse, sub-angular to rounded, sand is fine- to coarse-grained [FILL]
2.5 – 7.5	Lean CLAY with sand (CL), very dark brown mottled with dark brown, very stiff, moist, medium plasticity, fine-grained [Qal] at 5.5 feet - olive brown, blocky Pocket Penetrometer = 4 tsf
7.5 – 10	Sandy Lean CLAY (CL), olive, very stiff, moist, medium plasticity, fine-grained Pocket Penetrometer = 2.5 tsf

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TEST PIT LOG

Test Pit Number
2-TP3

Project Name: 38600 Cedar Boulevard			Lat.: 37.53205°
Project Location: Newark, CA			Long.: -122.00728°
Project No.: 15799.004.000	Logged By: K. Krisan	Contr.: Central Pacific Services	Equipment: Backhoe
Date Started: 09/08/22	Date Completed: 09/08/22	Total Depth: 5 feet	Groundwater: N/A

Depth (ft)	Soil/Rock Descriptions
0 – 2	Poorly-Graded GRAVEL with sand (GP), brown, medium dense, moist, fine to coarse, angular to rounded, sand is fine- to coarse-grained [FILL]
2 – 4	Gravelly Lean CLAY (CL), yellowish brown mottled with reddish yellow, very stiff, moist, medium plasticity, fine to coarse gravel, angular to rounded [FILL]
4 – 8	Lean CLAY with sand (CL), yellowish brown mottled with dark brown and yellowish red, stiff to very stiff, medium plasticity, fine-grained, intermixed with black clay, contains roots, bricks, and concrete [FILL] Pocket Penetrometer = 2.5 tsf
8 – 9	Lean CLAY (CL), dark bluish gray, very stiff, moist, medium plasticity, fine-grained, blocky [Qal] Pocket Penetrometer = 3.75 tsf

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TEST PIT LOG

Test Pit Number
2-TP4

Project Name: 38600 Cedar Boulevard			Lat.: 37.53170°
Project Location: Newark, CA			Long.: -122.00712°
Project No.: 15799.004.000	Logged By: K. Krisan	Contr.: Central Pacific Services	Equipment: Backhoe
Date Started: 09/08/22	Date Completed: 09/08/22	Total Depth: 5 feet	Groundwater: N/A

Depth (ft)	Soil/Rock Descriptions
0 – 3.5	12” AB Lean CLAY with sand (CL), yellowish brown mottled with brown, hard, moist, medium plasticity, fine-grained [FILL] Pocket Penetrometer >4.5 tsf
3.5 – 5.5	Lean CLAY with sand (CL), brown, hard, slightly moist, medium plasticity, fine-grained, blocky [Qal] Pocket Penetrometer = 4.25 tsf
5.5 – 7	Sandy Lean CLAY (CL), olive brown, hard, moist, medium plasticity, fine-grained, blocky

ENGEO Expect Excellence	TEST PIT LOG		Test Pit Number 2-TP5
Project Name: 38600 Cedar Boulevard			Lat.: 37.53204°
Project Location: Newark, CA			Long.: -122.00762°
Project No.: 15799.004.000	Logged By: K. Krisan	Contr.: Central Pacific Services	Equipment: Backhoe
Date Started: 09/08/22	Date Completed: 09/08/22	Total Depth: 5 feet	Groundwater: N/A

Depth (ft)	Soil/Rock Descriptions
0 – 6	6” AC, 3” AB Lean CLAY (CL), yellowish brown, hard, moist, medium plasticity, fine-grained, mottled with gray, pocket penetrometer > 4.5 tsf [FILL] at 2.5 feet – dark brown mottled with olive brown, contains gravel, fine, pieces of asphaltic debris, pocket penetrometer = 0.5 tsf at 4 feet – bluish gray mottled with greenish gray and dark gray
6 – 7	Lean CLAY (CL), dark bluish gray, very stiff, moist, medium plasticity, contains trace sand, fine-grained [Qal] Pocket Penetrometer = 2 tsf

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TEST PIT LOG

Test Pit Number
2-TP6

Project Name: 38600 Cedar Boulevard			Lat.: 37.53147°
Project Location: Newark, CA			Long.: -122.00774°
Project No.: 15799.004.000	Logged By: K. Krisan	Contr.: Central Pacific Services	Equipment: Backhoe
Date Started: 09/08/22	Date Completed: 09/08/22	Total Depth: 5 feet	Groundwater: N/A

Depth (ft)	Soil/Rock Descriptions
0 – 2	3” AC, 6” AB Lean CLAY with sand (CL), black, very stiff, moist, medium plasticity, fine-grained [Qal] Pocket Penetrometer = 4 tsf
2 – 3.5	Sandy Lean CLAY (CL), dark gray, very stiff, moist, medium plasticity, sharp contact with overlying unit Pocket Penetrometer = 2.5 tsf
3.5 – 5	Lean CLAY (CL), olive brown, very stiff, moist, medium plasticity, fine-grained Pocket Penetrometer = 4 tsf

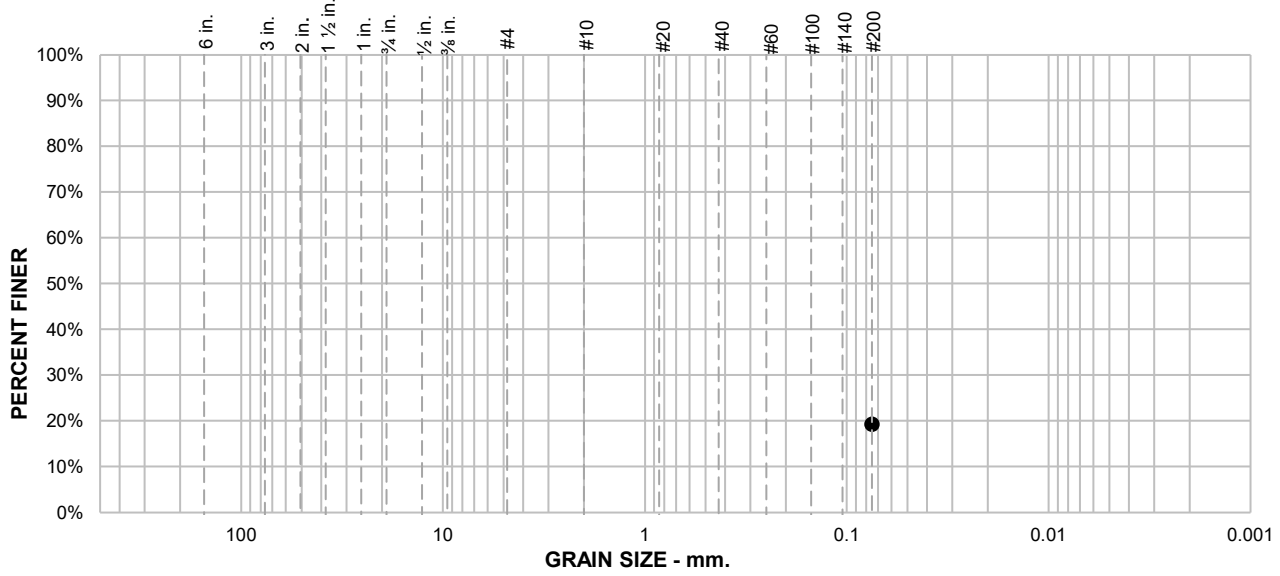


APPENDIX B

LABORATORY TEST DATA

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B



SAMPLE ID: 2-B1@10

DEPTH (ft): 10

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
						19.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#200	19.2		

SOIL DESCRIPTION

See exploration logs

ATTERBERG LIMITS

PL = LL = PI =

COEFFICIENTS

D_{90} = D_{85} = D_{60} =
D_{50} = D_{30} = D_{15} =
D_{10} = C_u = C_c =

CLASSIFICATION

USCS =

REMARKS

Soak time = 180 min
Dry sample weight = 604.7 g

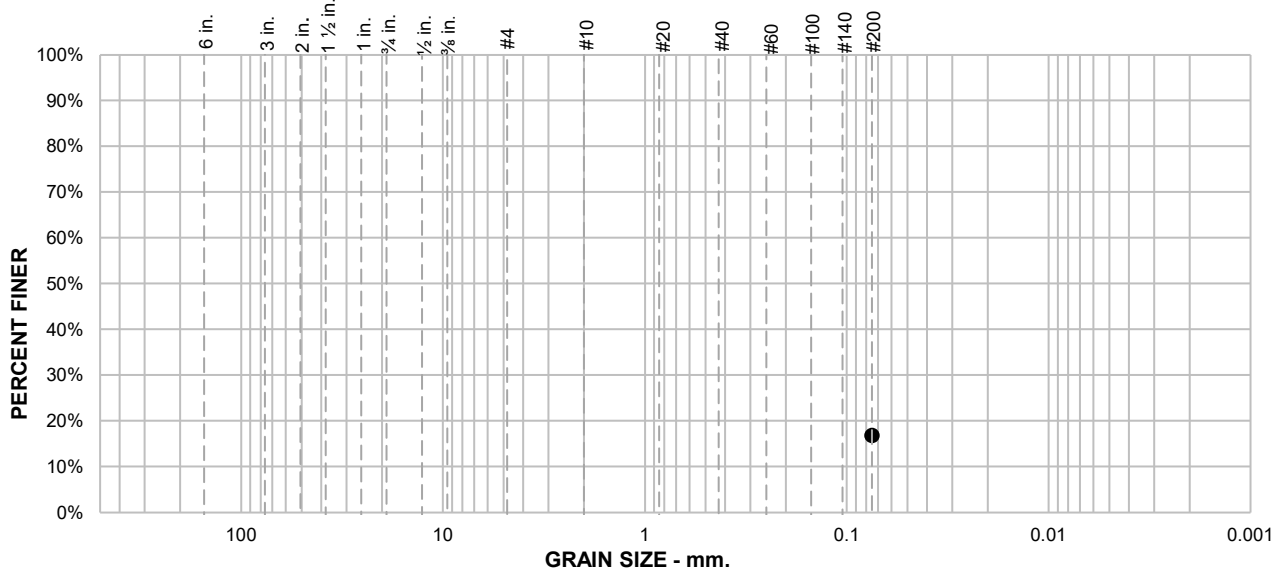
* (no specification provided)

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PROJECT LOCATION: Newark, California
REPORT DATE: 9/15/2022
TESTED BY: K. Nguyen
REVIEWED BY: G. Criste

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B



SAMPLE ID: 2-B1@20

DEPTH (ft): 20

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
						16.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#200	16.8		

SOIL DESCRIPTION

See exploration logs

ATTERBERG LIMITS

PL = LL = PI =

COEFFICIENTS

D_{90} = D_{85} = D_{60} =
D_{50} = D_{30} = D_{15} =
D_{10} = C_u = C_c =

CLASSIFICATION

USCS =

REMARKS

Soak time = 180 min
Dry sample weight = 880.2 g

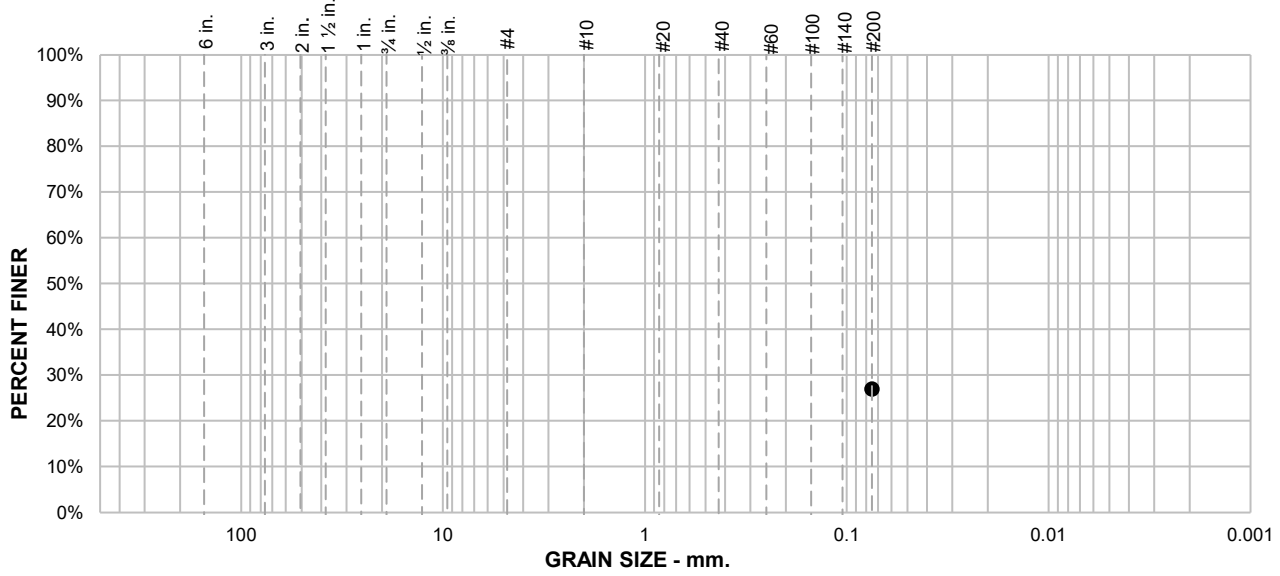
* (no specification provided)

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REVIEWED BY: G. Criste

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B



SAMPLE ID: 2-B2@11

DEPTH (ft): 11

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
						27.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#200	27.0		

SOIL DESCRIPTION

See exploration logs

ATTERBERG LIMITS

PL = 16 LL = 17 PI = 1

COEFFICIENTS

D_{90} = D_{85} = D_{60} =
D_{50} = D_{30} = D_{15} =
D_{10} = C_u = C_c =

CLASSIFICATION

USCS =

REMARKS

PI: ASTM D4318, Wet Method

Soak time = 180 min
Dry sample weight = 254.5 g

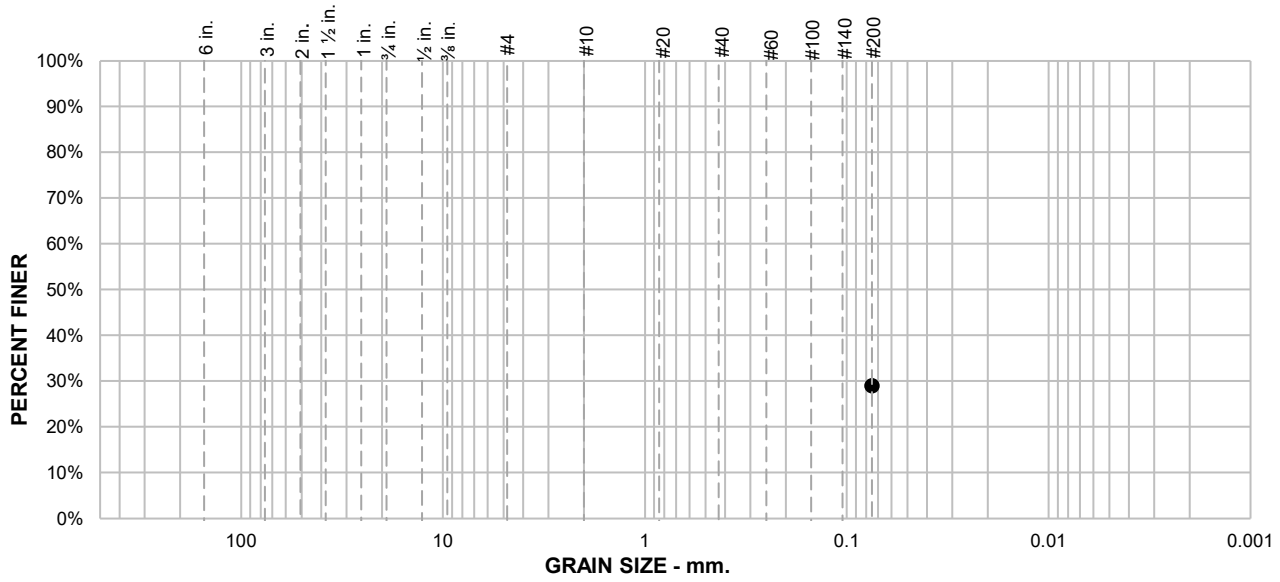
* (no specification provided)

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REVIEWED BY: G. Criste

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B



SAMPLE ID: 2-B2@21.5

DEPTH (ft): 21.5

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
						29.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#200	29.0		

SOIL DESCRIPTION

See exploration logs

ATTERBERG LIMITS

PL = LL = PI =

COEFFICIENTS

D_{90} = D_{85} = D_{60} =
D_{50} = D_{30} = D_{15} =
D_{10} = C_u = C_c =

CLASSIFICATION

USCS =

REMARKS

Soak time = 180 min
Dry sample weight = 357.9 g

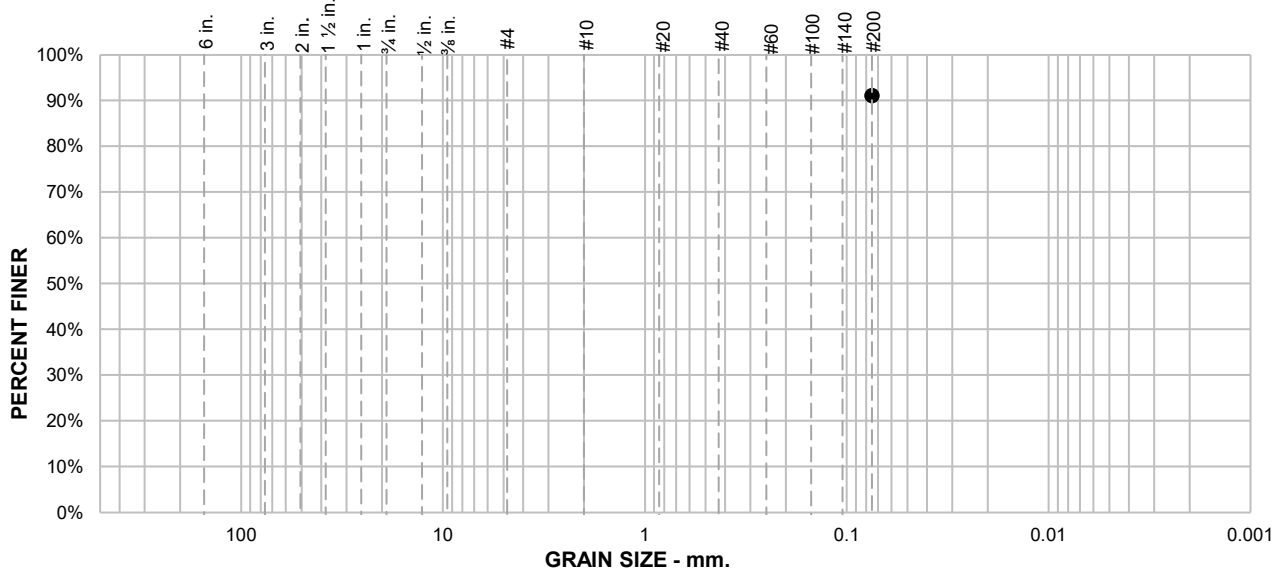
* (no specification provided)

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REVIEWED BY: G. Criste

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B



SAMPLE ID: 3-B3@5.5

DEPTH (ft): 5.5

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
						91.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#200	91.0		

SOIL DESCRIPTION

See exploration logs

ATTERBERG LIMITS

PL = LL = PI =

COEFFICIENTS

D_{90} = D_{85} = D_{60} =
D_{50} = D_{30} = D_{15} =
D_{10} = C_u = C_c =

CLASSIFICATION

USCS =

REMARKS

Soak time = 180 min
Dry sample weight = 491.6 g

* (no specification provided)

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PROJECT LOCATION: Newark, California

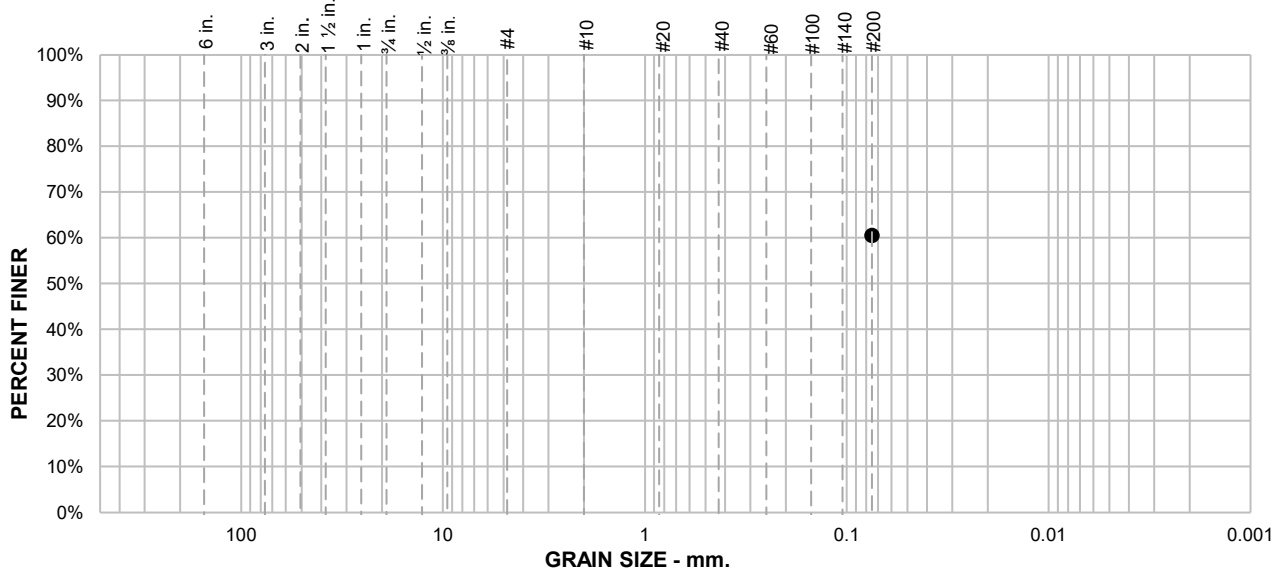
REPORT DATE: 9/16/2022

TESTED BY: K. Nguyen

REVIEWED BY: G. Criste

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B



SAMPLE ID: 3-B3@20.5

DEPTH (ft): 20.5

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
						60.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#200	60.5		

SOIL DESCRIPTION

See exploration logs

ATTERBERG LIMITS

PL = LL = PI =

COEFFICIENTS

D_{90} = D_{85} = D_{60} =
D_{50} = D_{30} = D_{15} =
D_{10} = C_u = C_c =

CLASSIFICATION

USCS =

REMARKS

Soak time = 180 min
Dry sample weight = 371.4 g

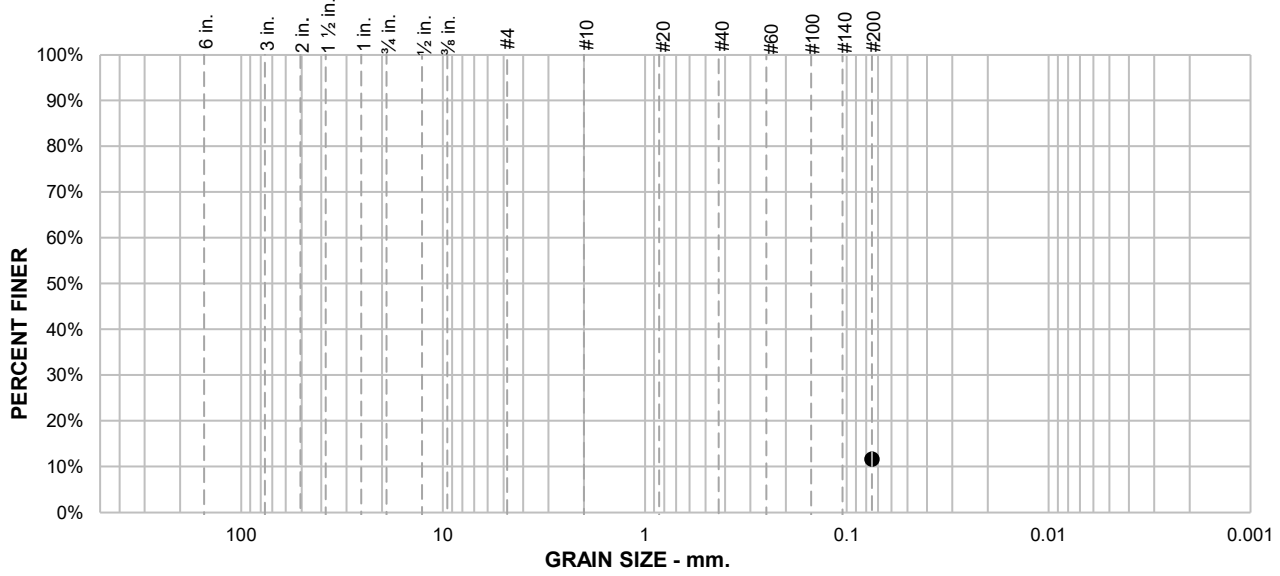
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REVIEWED BY: G. Criste

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B



SAMPLE ID: 3-B3@25.5

DEPTH (ft): 25.5

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
						11.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#200	11.6		

SOIL DESCRIPTION

See exploration logs

ATTERBERG LIMITS

PL = LL = PI =

COEFFICIENTS

D_{90} = D_{85} = D_{60} =
D_{50} = D_{30} = D_{15} =
D_{10} = C_u = C_c =

CLASSIFICATION

USCS =

REMARKS

Soak time = 180 min
Dry sample weight = 473.2 g

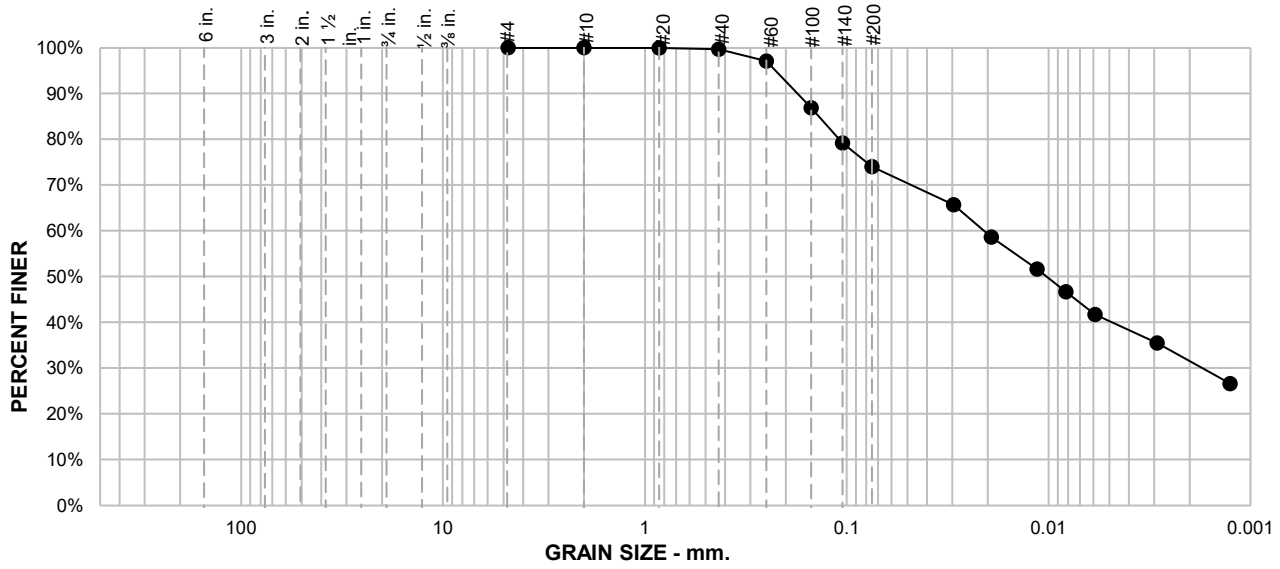
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PROJECT NAME: 38600 Cedar Boulevard - Env Services
PROJECT NO: 15799.400.000 PH002
PROJECT LOCATION: Newark, California
REPORT DATE: 9/15/2022
TESTED BY: K. Nguyen
REVIEWED BY: G. Criste

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D422



SAMPLE ID: 2-B1@3

DEPTH (ft): 3

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
				0.4	25.6	42.5	31.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	100.0		
#20	99.9		
#40	99.6		
#60	97.1		
#100	86.9		
#140	79.2		
#200	74.0		
0.0296 mm.	65.7		
0.0193 mm.	58.6		
0.0114 mm.	51.6		
0.0082 mm.	46.6		
0.0059 mm.	41.7		
0.0029 mm.	35.5		
0.0013 mm.	26.6		

SOIL DESCRIPTION

See exploration logs

ATTERBERG LIMITS

PL = 15 LL = 33 PI = 18

COEFFICIENTS

D_{90} = 0.1752 mm D_{85} = 0.1374 mm D_{60} = 0.0210 mm

D_{50} = 0.0103 mm D_{30} = 0.0017 mm D_{15} =

D_{10} = C_u = C_c =

CLASSIFICATION

USCS = CL

REMARKS

Silt/clay division of 0.002mm used
PI: ASTM D4318, Wet Method
USCS: ASTM D2487

* (no specification provided)

ENGEO
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CLIENT: Waymark Development

PROJECT NAME: 38600 Cedar Boulevard - Env Services

PROJECT NO: 15799.400.000 PH002

PROJECT LOCATION: Newark, California

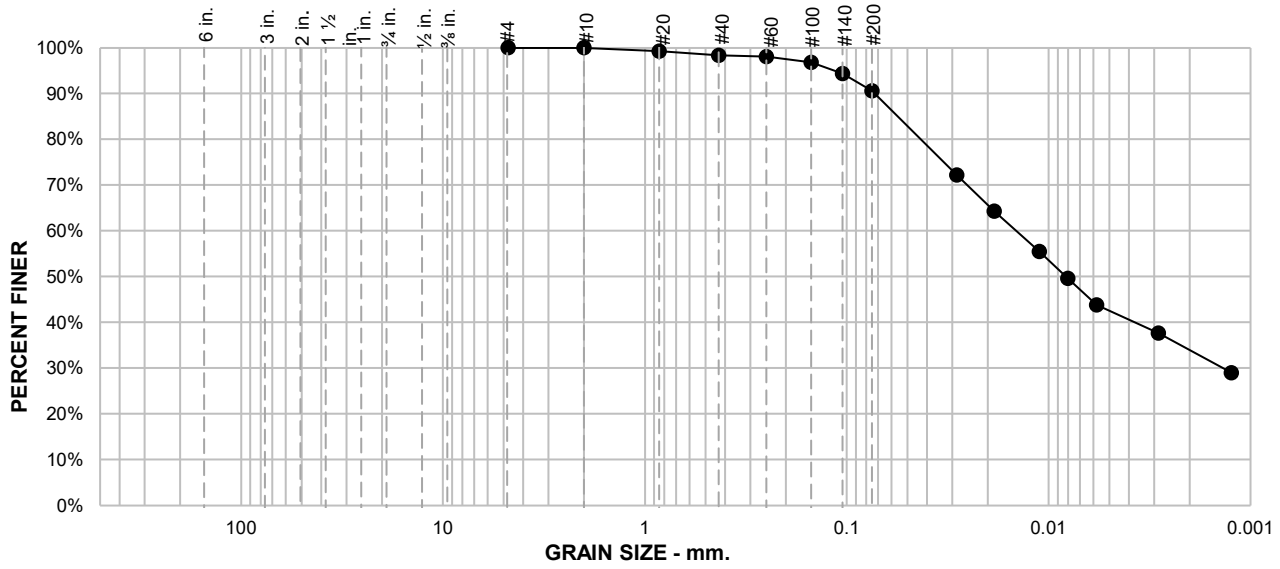
REPORT DATE: 9/16/2022

TESTED BY: G. Criste

REVIEWED BY: D. Seibold

PARTICLE SIZE DISTRIBUTION REPORT

ASTM D422



SAMPLE ID: 3-B3@3

DEPTH (ft): 3

% +75mm	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
				1.7	7.8	56.6	33.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	100.0		
#20	99.2		
#40	98.3		
#60	98.1		
#100	96.8		
#140	94.4		
#200	90.5		
0.0285 mm.	72.2		
0.0186 mm.	64.3		
0.0111 mm.	55.5		
0.0080 mm.	49.6		
0.0058 mm.	43.8		
0.0029 mm.	37.7		
0.0012 mm.	29.0		

SOIL DESCRIPTION

See exploration logs

ATTERBERG LIMITS

PL = 15 LL = 35 PI = 20

COEFFICIENTS

D_{90} = 0.0730 mm D_{85} = 0.0561 mm D_{60} = 0.0145 mm

D_{50} = 0.0082 mm D_{30} = 0.0014 mm D_{15} =

D_{10} = C_u = C_c =

CLASSIFICATION

USCS = CL

REMARKS

Silt/clay division of 0.002mm used
PI: ASTM D4318, Wet Method
USCS: ASTM D2487

* (no specification provided)

ENGEO
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CLIENT: Waymark Development

PROJECT NAME: 38600 Cedar Boulevard - Env Services

PROJECT NO: 15799.400.000 PH002

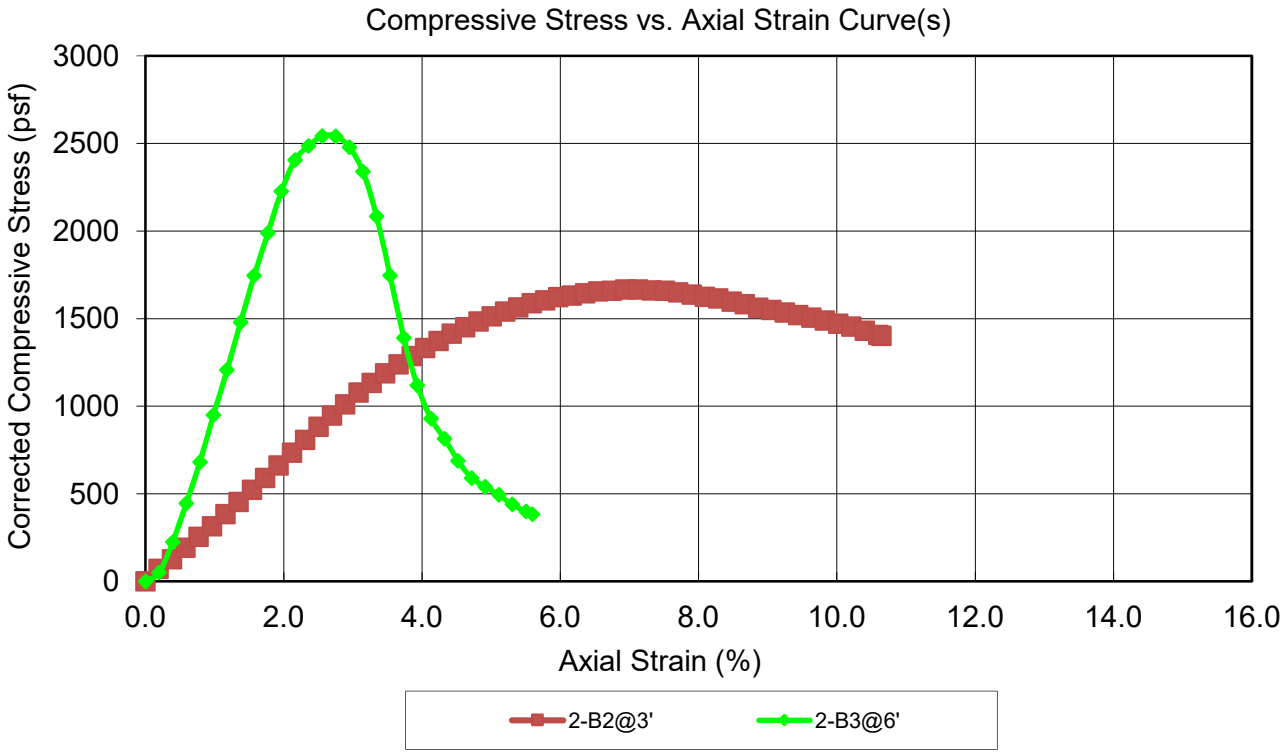
PROJECT LOCATION: Newark, California

REPORT DATE: 9/16/2022

TESTED BY: G. Criste

REVIEWED BY: D. Seibold

UNCONFINED COMPRESSION TEST REPORT
(ASTM D2166)



BEFORE TEST	SPECIMEN 2-B2@3'	SPECIMEN 2-B3@6'
Test Moisture Content (%)	18.79	19.56
Dry Density (pcf)	106.4	94.8
Saturation (%)	85.7	67.3
Void Ratio	0.60	0.79
Diameter (in)	2.389	2.371
Height (in)	5.190	5.088
Height-To-Diameter Ratio	2.17	2.15
TEST DATA		
Unconfined Compressive Strength (psf)	1664.94	2542.17
Undrained Shear Strength (psf)	832.47	1271.09
Strain Rate (in/min)	0.052	0.051
Specific Gravity (ASSUMED)	2.720	2.720
Strain at Failure(%)	7.13	2.56
Test Remarks		

SPECIMEN	DESCRIPTION
2-B2@3'	See Exploration Logs
2-B3@6'	See Exploration Logs

PROJECT NAME: 38600 Cedar Boulevard-Env Services
PROJECT NO: 15799.004.000 PH002
CLIENT: Waymark Development
LOCATION: Newark, CA

Test Date: 9/13/2022
Tested By: O. Espinoza
Reviewed By: G. Criste

ENGEO
Expect Excellence

3420 Fostoria Way | Danville, CA 94526 | T (925) 355-9047 | www.engeo.com

CERCO analytical
1100 Willow Pass Court, Suite A
Concord, CA 94520-1006
925 462 2771 Fax. 925 462 2775
www.cercoanalytical.com

19 September, 2022

Job No. 2209011
Cust. No. 10169

Mr. Jerry Chen
ENGEO Inc.
2010 Crow Canyon Place, Suite 250
San Ramon, CA 94583

Subject: Project No.: 15799.004.000
Project Name: Cedar Blvd.
Corrosivity Analysis – ASTM Test Methods

Dear Mr. Chen:

Pursuant to your request, CERCO Analytical has analyzed the soil samples submitted on September 08, 2022. Based on the analytical results, this brief corrosivity evaluation is enclosed for your consideration.

Based upon the resistivity measurements, Sample No.002 is classified as "corrosive" and Sample No.002 is classified as "moderately corrosive". All buried iron, steel, cast iron, ductile iron, galvanized steel and dielectric coated steel or iron should be properly protected against corrosion depending upon the critical nature of the structure. All buried metallic pressure piping such as ductile iron firewater pipelines should be protected against corrosion.

The chloride ion concentrations are none detected and 85 mg/kg, and are determined to be insufficient to attack steel embedded in a concrete mortar coating.

The sulfate ion concentrations reflect none detected with a reporting limit of 15 mg/kg.

The pH of the soils are 7.00 and 9.15, which does not present corrosion problems for buried iron, steel, mortar-coated steel and reinforced concrete structures.

The redox potentials are 220-mV and 300-mV. Both samples are indicative of potentially "slightly corrosive" soils resulting from anaerobic soil conditions.

This corrosivity evaluation is based on general corrosion engineering standards and is non-specific in nature. For specific long-term corrosion control design recommendations or consultation, please call *JDH Corrosion Consultants, Inc. at (925) 927-6630.*

We appreciate the opportunity of working with you on this project. If you have any questions, or if you require further information, please do not hesitate to contact us.

Very truly yours,
CERCO ANALYTICAL, INC.

for Drew Moore
J. Darby Howard, Jr., P.E.
President

JDH/jdl
Enclosure

CERCO analytical
1100 Willow Pass Court, Suite A
Concord, CA 94520-1006
925 462 2771 Fax. 925 462 2775
www.cercoanalytical.com

Client: ENGEO, Incorporated
Client's Project No.: 15799.004.000
Client's Project Name: Cedar Blvd.
Date Sampled: 7-Sep-22
Date Received: 8-Sep-22
Matrix: Soil
Authorization: Signed Chain of Custody

Date of Report: 19-Sep-2022

Job/Sample No.	Sample I.D.	Redox (mV)	pH	Conductivity (umhos/cm)*	Resistivity (100% Saturation) (ohms-cm)	Sulfide (mg/kg)*	Chloride (mg/kg)*	Sulfate (mg/kg)*
2209011-001	2-B1 @ 2.5'	220	7.00	-	4,200	-	N.D.	N.D.
2209011-002	2-B3 @ 2.5'	300	9.15	-	1,400	-	85	N.D.

Method:	ASTM D1498	ASTM D4972	ASTM D1125M	ASTM G57	ASTM D4658M	ASTM D4327	ASTM D4327
Reporting Limit:	-	-	10	-	50	15	15
Date Analyzed:	9-Sep-2022	9-Sep-2022	-	9-Sep-2022	-	12-Sep-2022	12-Sep-2022

Sherri Moore
Chemist

* Results Reported on "As Received" Basis
N.D. - None Detected
(1) Unable to complete resistivity as sample was too rocky

Quality Control Summary - All laboratory quality control parameters were found to be within established limits

220911 #10169

CHAIN OF CUSTODY RECORD

PROJECT NUMBER:	PROJECT NAME:
15799.004.000	Cedar Blvd.

SAMPLED BY: (SIGNATURE/PRINT)
Kevin Krisan

PROJECT MANAGER:
Jerry Chen

ROUTING: E-MAIL jchen@engeo.com

	SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	Redox, pH, sulfate, resistivity (100% sat.) chloride	REMARKS REQUIRED DETECTION LIMITS
1	2-B1 @ 2.5'	09/07/22	10:00AM	Soil	1	Liner	N/A	X	Sample with brief evaluation
2	2-B3 @ 2.5'	09/07/22	10:00AM	Soil	1	Liner	N/A	X	Sample with brief evaluation

Jerry Chen	DATE/TIME 09/07/22	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME 9.8.22 7:40	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME		

ENGEO INCORPORATED
2010 CROW CANYON PLACE, SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 837-2973 FAX (888) 279-2698
WWW.ENGEO.COM

Standard 10- day turnaround

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES

MOISTURE CONTENT REPORT
ASTM D2216

SAMPLE ID	2-B1@10	2-B1@15	2-B1@20	2-B2@20				
DEPTH (ft.)	10	15	20	20				
METHOD A OR B	B	B	B	B				
MOISTURE CONTENT (%)	7.1	21.2	17.7	18.3				

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CLIENT: Waymark Development
PROJECT NAME: 38600 Cedar Boulevard - Env Services
PROJECT NO: 15799.400.000 PH002
PROJECT LOCATION: Newark, California
REPORT DATE: 9/15/2022
TESTED BY: O. Espinoza
REVIEWED BY: G. Criste

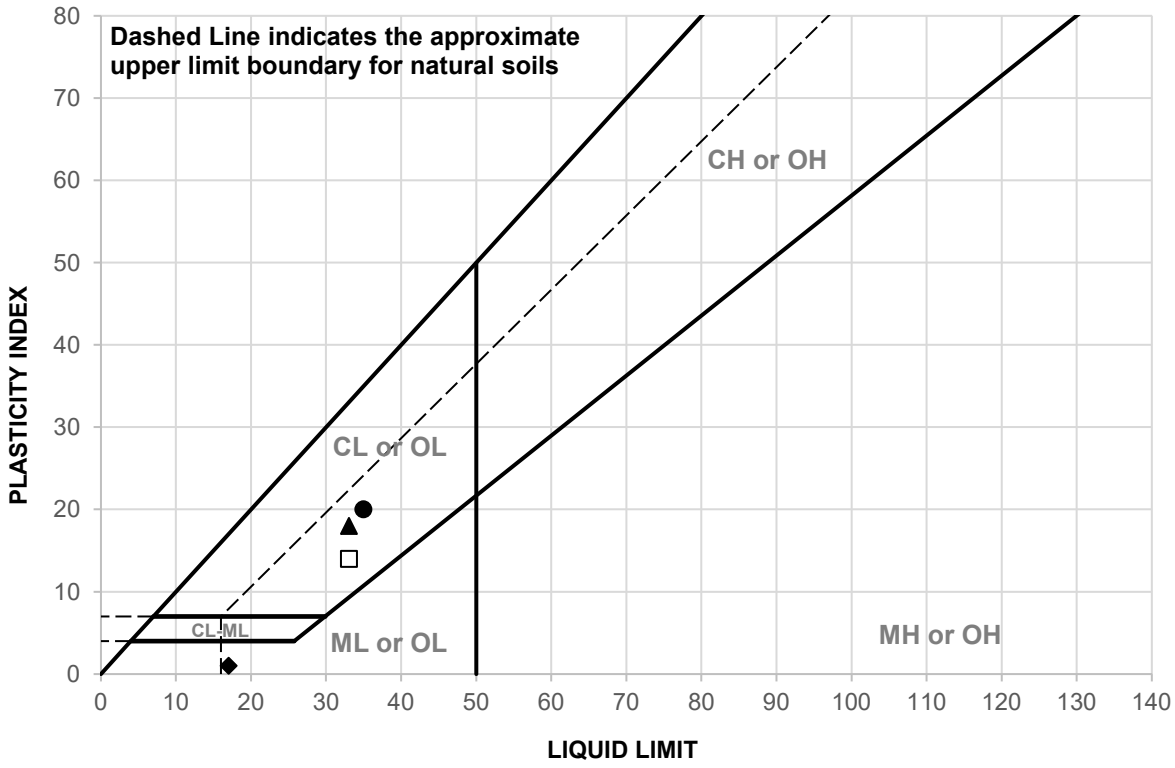
MOISTURE-DENSITY DETERMINATION REPORT
ASTM D7263

SAMPLE ID	2-B2@9							
DEPTH (ft.)	9							
METHOD A OR B	B							
MOISTURE CONTENT (%)	18.8							
DRY DENSITY (pcf)	106.3							

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CLIENT: Waymark Development
PROJECT NAME: 38600 Cedar Boulevard - Env Services
PROJECT NO: 15799.400.000 PH002
PROJECT LOCATION: Newark, California
REPORT DATE: 9/15/2022
TESTED BY: O. Espinoza
REVIEWED BY: G. Criste

LIQUID AND PLASTIC LIMITS TEST REPORT
ASTM D4318



	SAMPLE ID	DEPTH (ft)	MATERIAL DESCRIPTION	LL	PL	PI
▲	2-B1@3	3	See exploration logs	33	15	18
◆	2-B2@11	11	See exploration logs	17	16	1
□	2-B2@21.5	21.5	See exploration logs	33	19	14
●	2-B3@3	3	See exploration logs	35	15	20

	SAMPLE ID	TEST METHOD	REMARKS
▲	2-B1@3	PI: ASTM D4318, Wet Method	
◆	2-B2@11	PI: ASTM D4318, Wet Method	
□	2-B2@21.5	PI: ASTM D4318, Wet Method	
●	2-B3@3	PI: ASTM D4318, Wet Method	

ENGEO
Expect Excellence

CLIENT: Waymark Development
PROJECT NAME: 38600 Cedar Boulevard - Env Services
PROJECT NO: 15799.400.000 PH002
PROJECT LOCATION: Newark, California
REPORT DATE: 9/16/2022
TESTED BY: G. Criste
REVIEWED BY: D. Seibold



APPENDIX C

LIQUEFACTION ANALYSES

GeoLogismiki
Geotechnical Engineers
Merarhias 56
http://www.geologismiki.gr

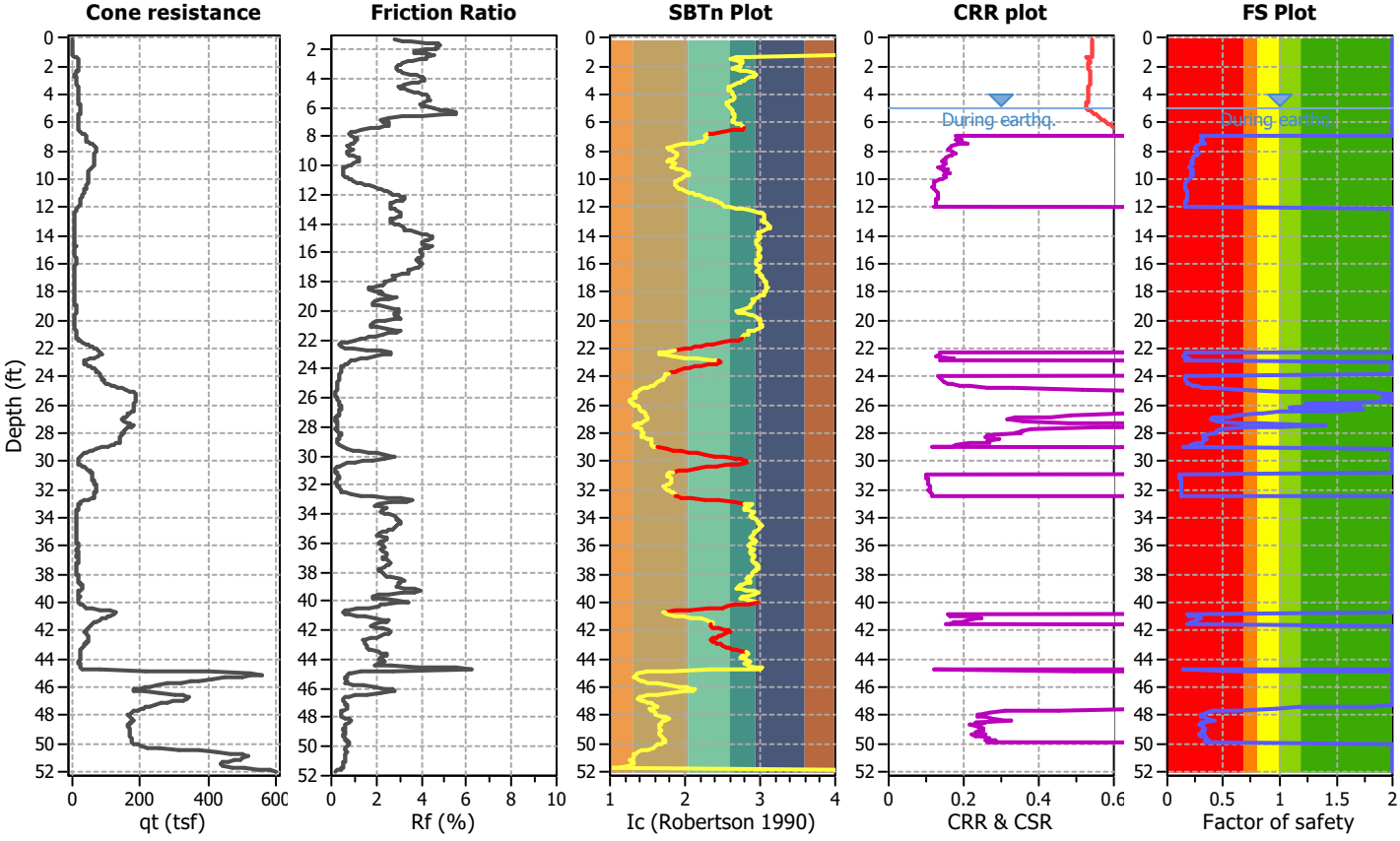
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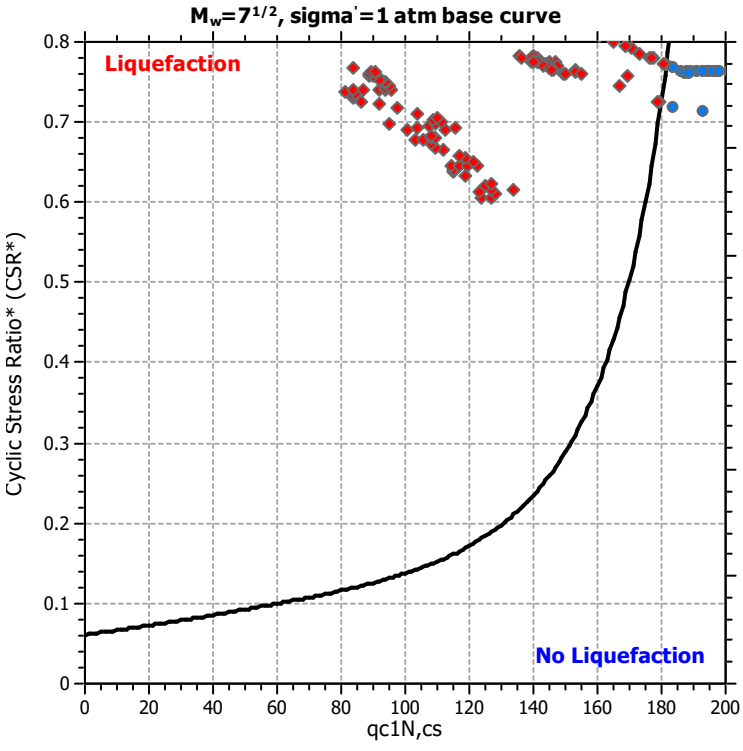
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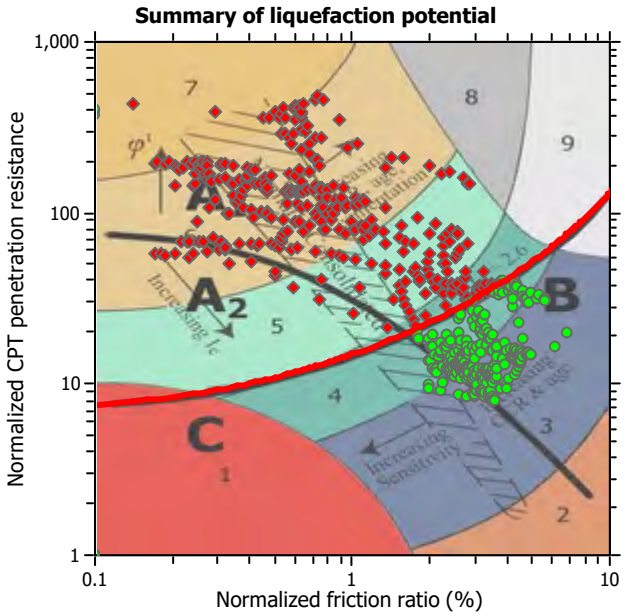
CPT file : 1-CPT1

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	5.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	5.00 ft	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	50.00 ft
Earthquake magnitude M_w:	7.01	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.85	Unit weight calculation:	Based on SBT	K_σ applied:	No		

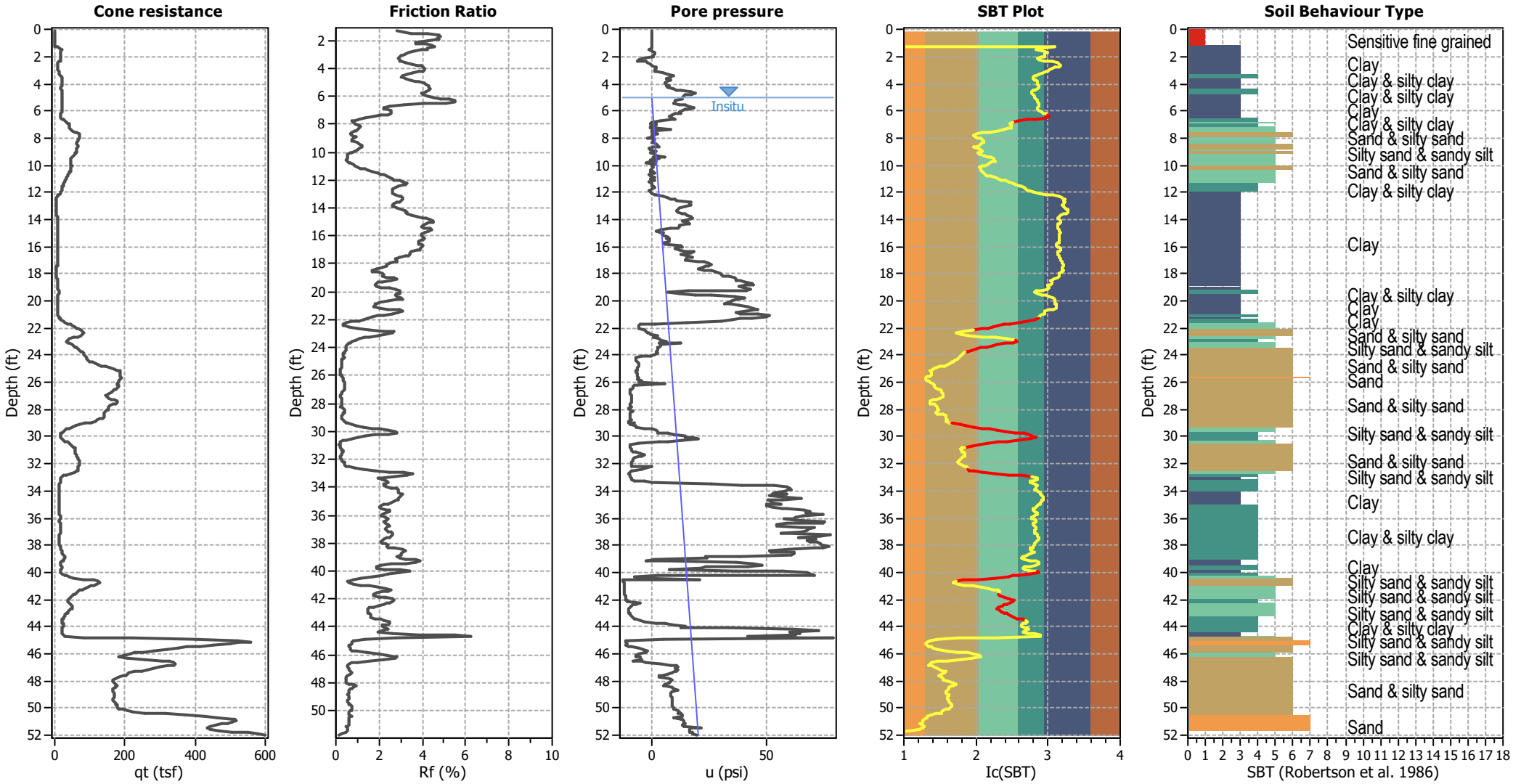






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



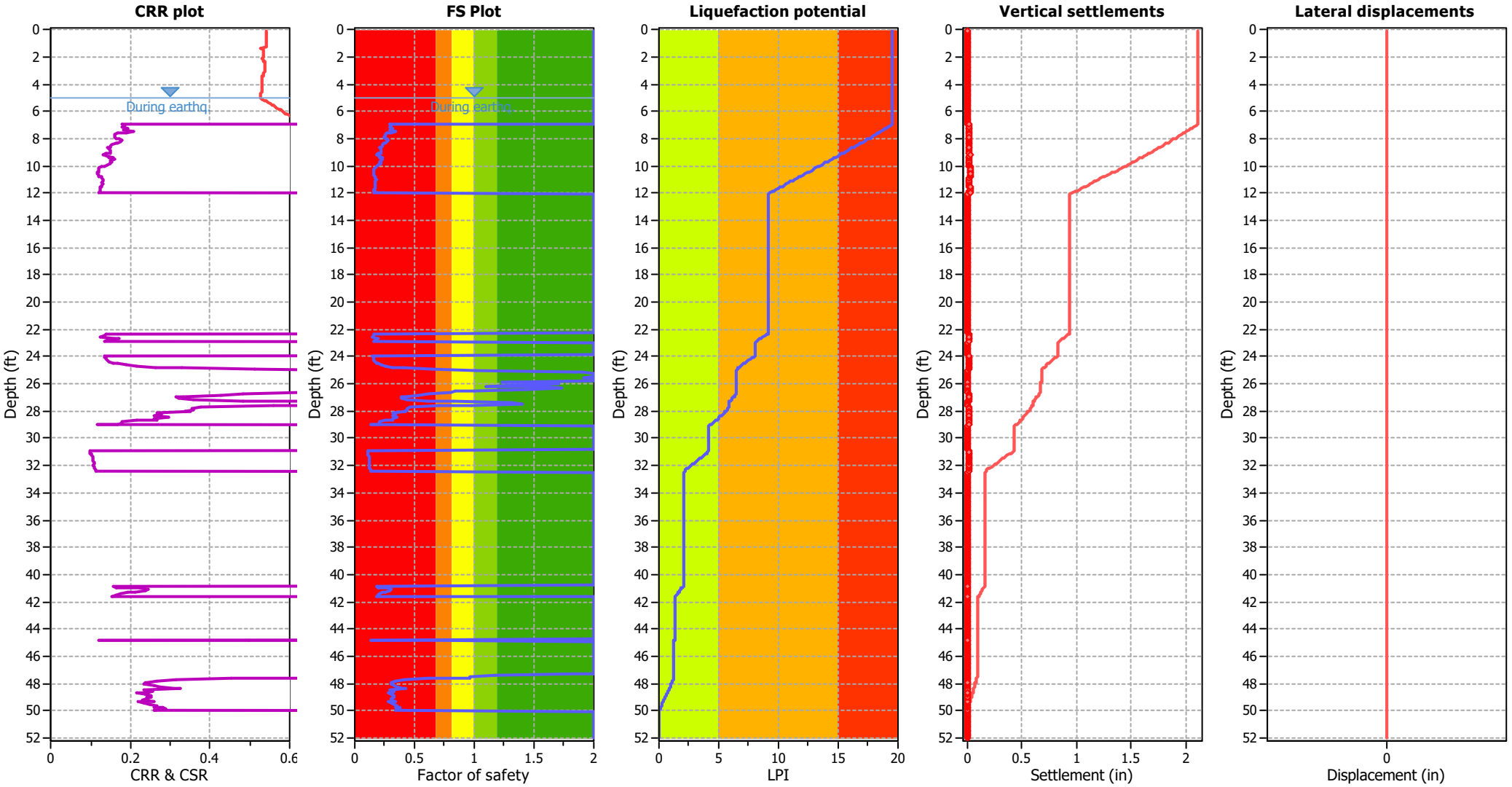
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

GeoLogismiki
Geotechnical Engineers
Merarhias 56
http://www.geologismiki.gr

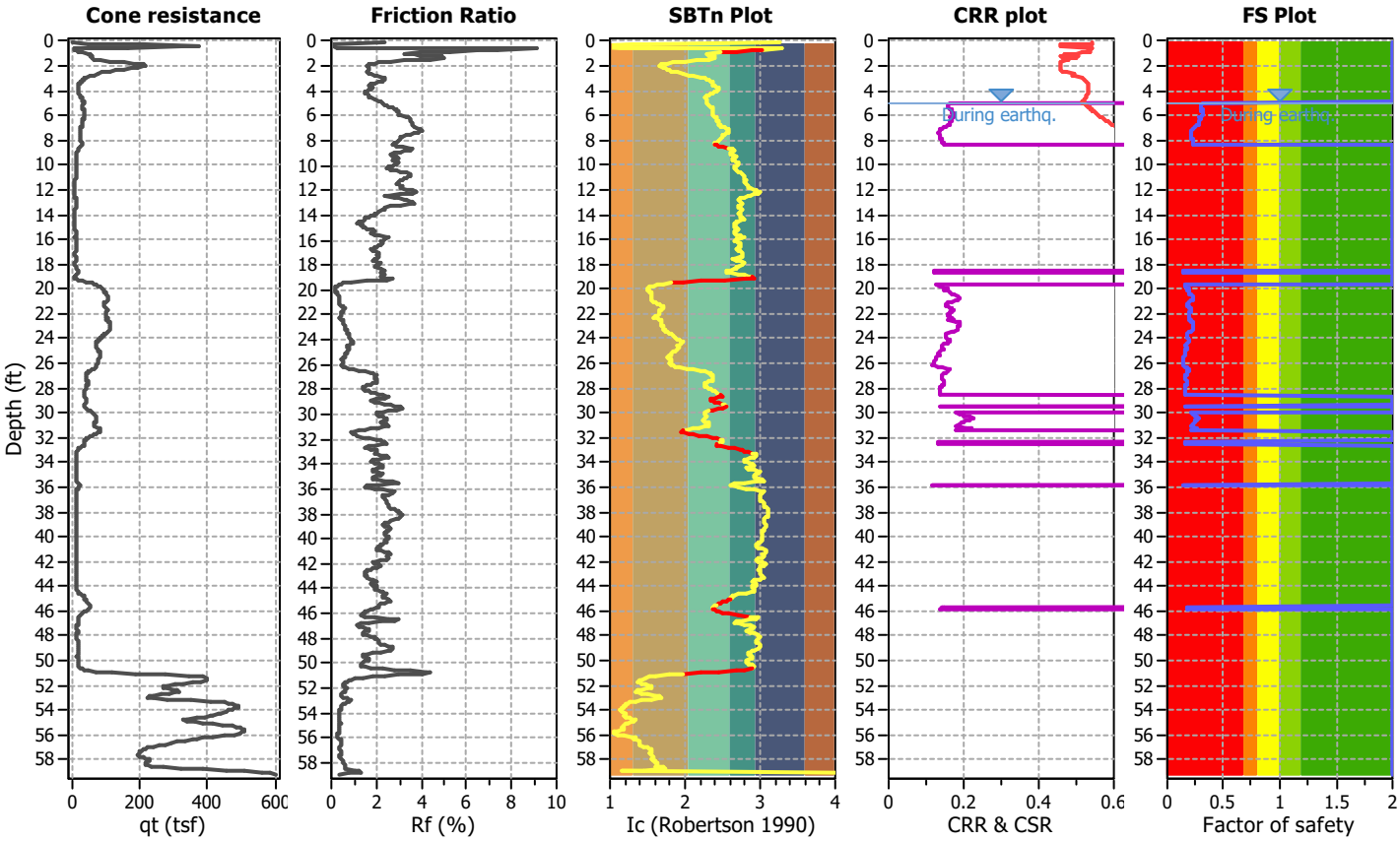
LIQUEFACTION ANALYSIS REPORT

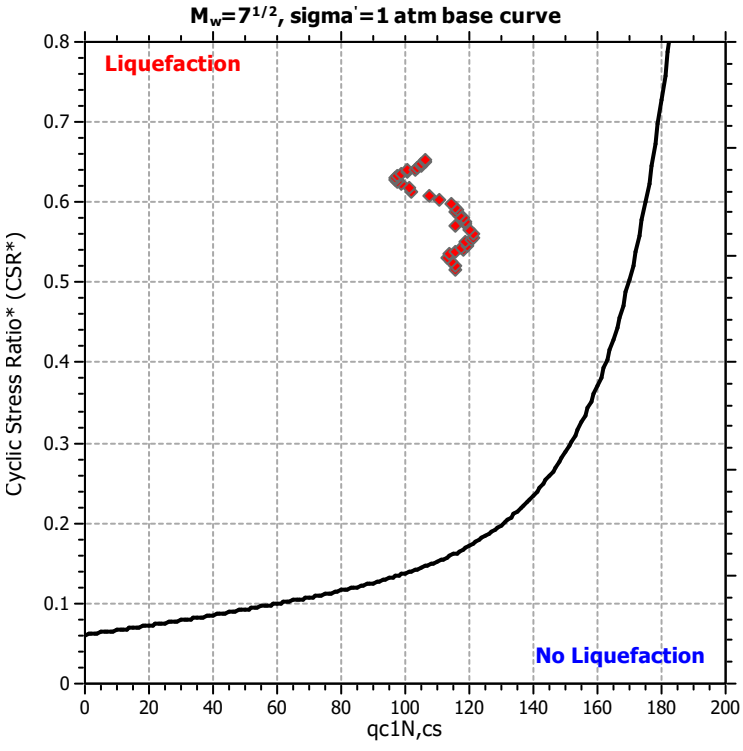
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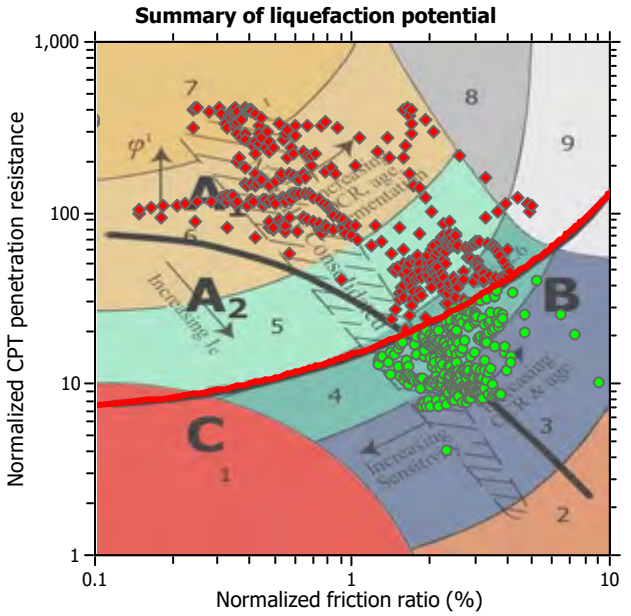
CPT file : 1-CPT2

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	5.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	5.00 ft	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	50.00 ft
Earthquake magnitude M_w:	7.01	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.85	Unit weight calculation:	Based on SBT	K_σ applied:	No		

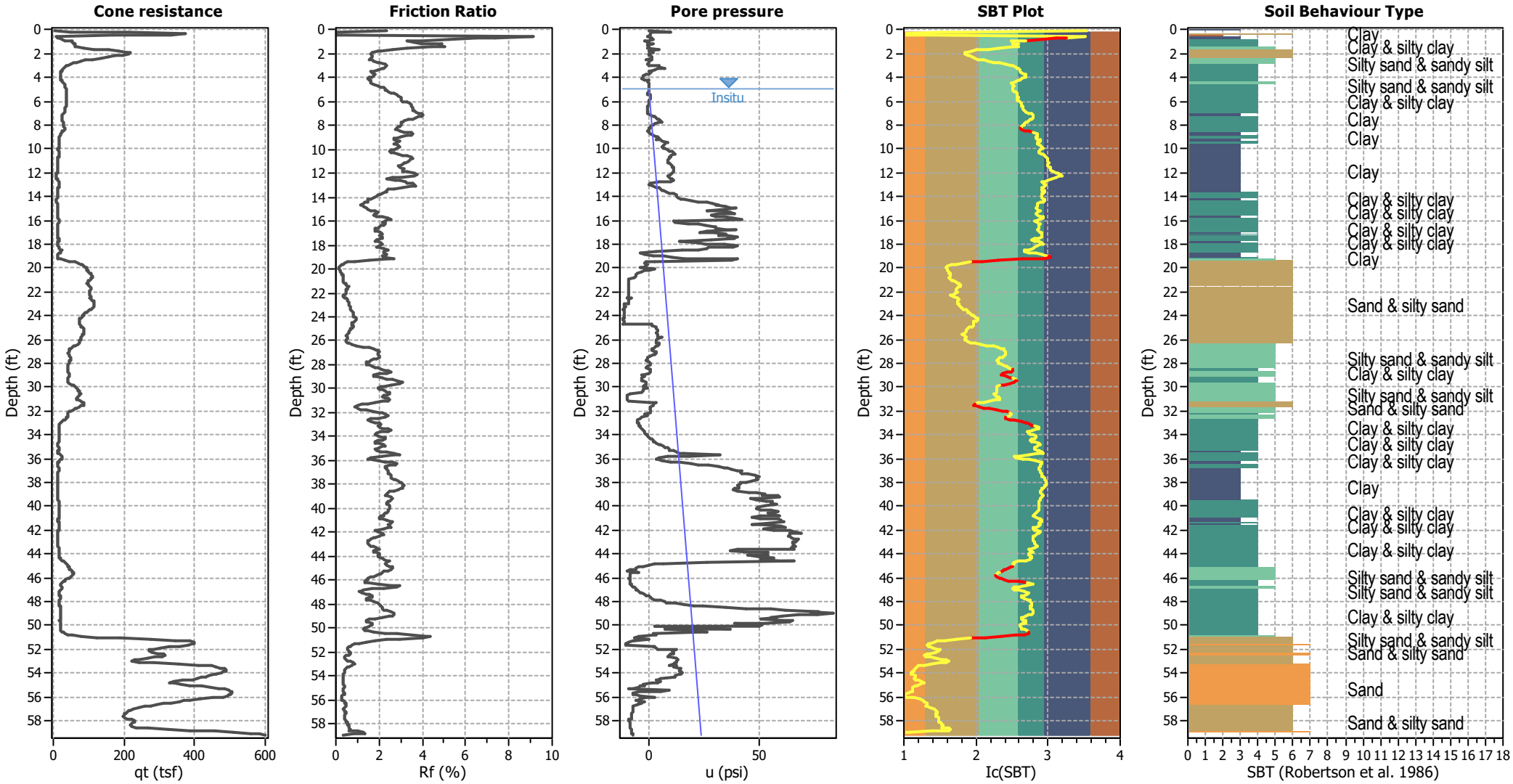






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



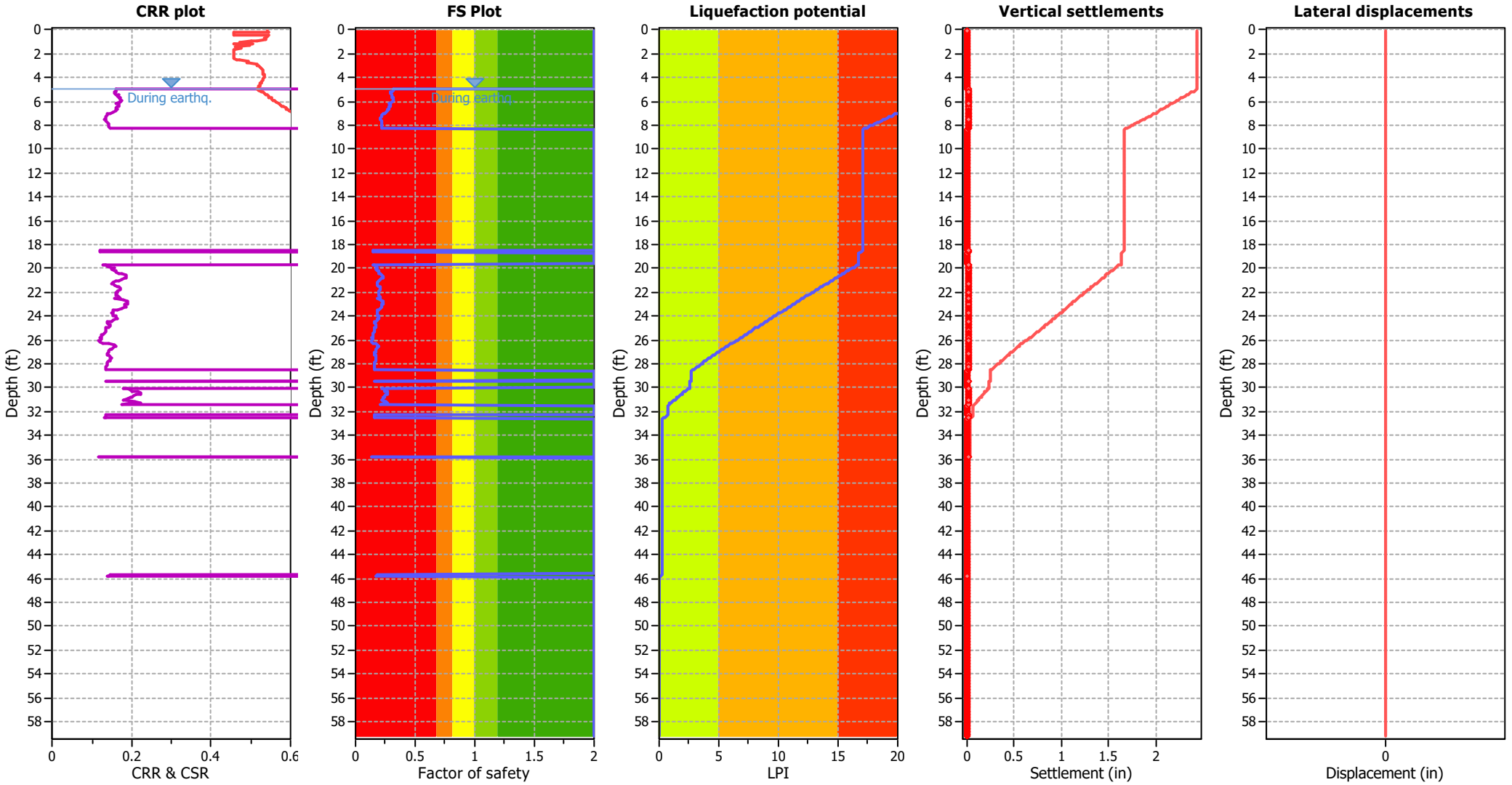
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

F.S. color scheme

- Almost certain it will liquefy
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- Liquefaction and no liq. are equally likely
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LPI color scheme

- Very high risk
- High risk
- Low risk

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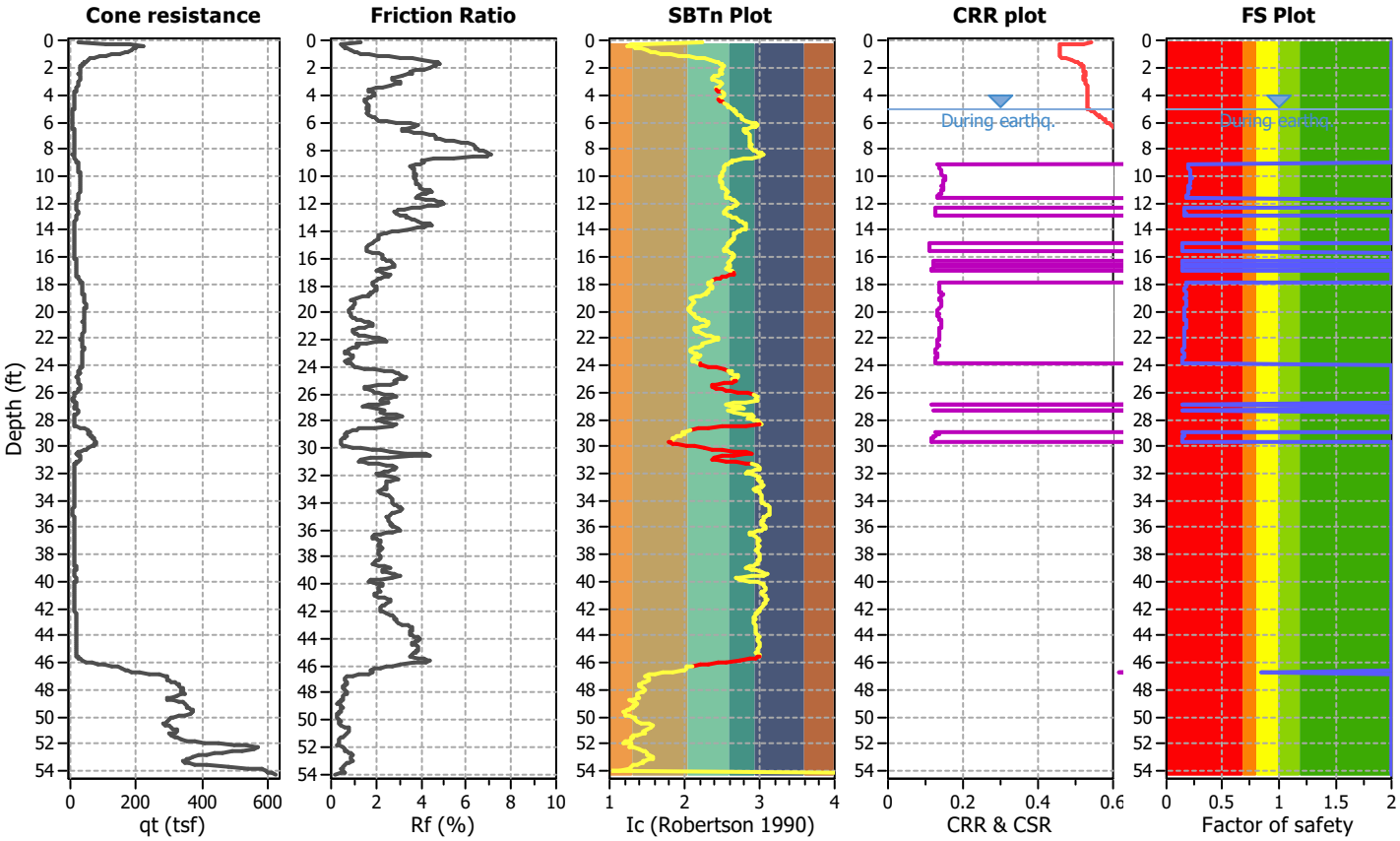
LIQUEFACTION ANALYSIS REPORT

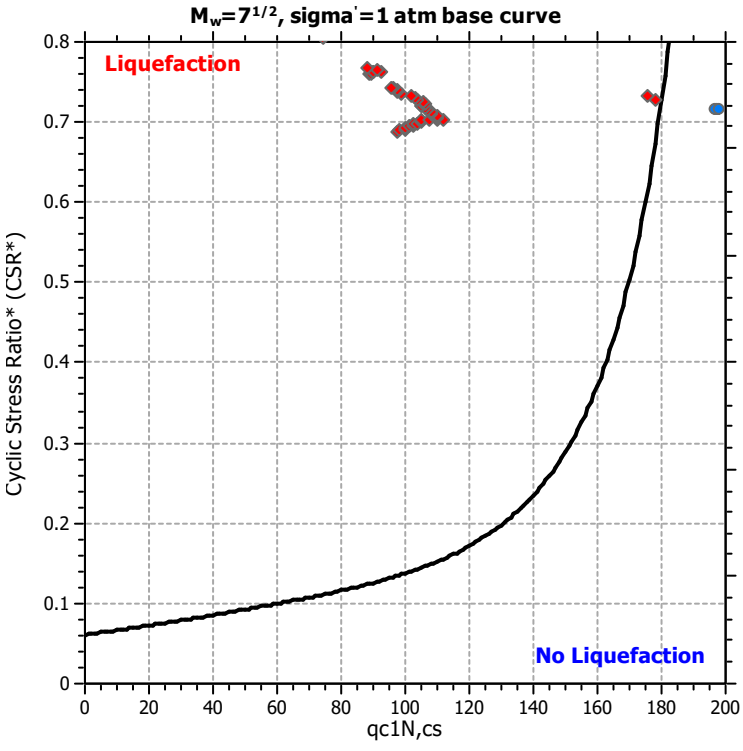
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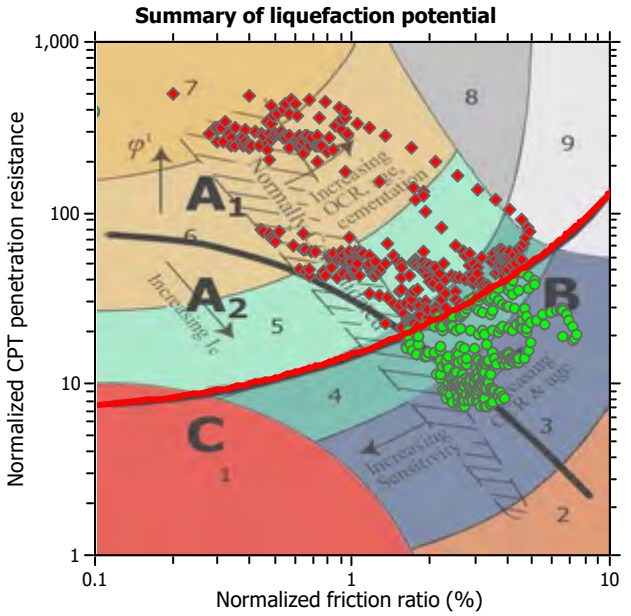
CPT file : 1-CPT3

Input parameters and analysis data

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Fines correction method:	B&I (2014)	G.W.T. (earthq.):	5.00 ft	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	50.00 ft
Earthquake magnitude M_w:	7.01	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.85	Unit weight calculation:	Based on SBT	K_σ applied:	No		

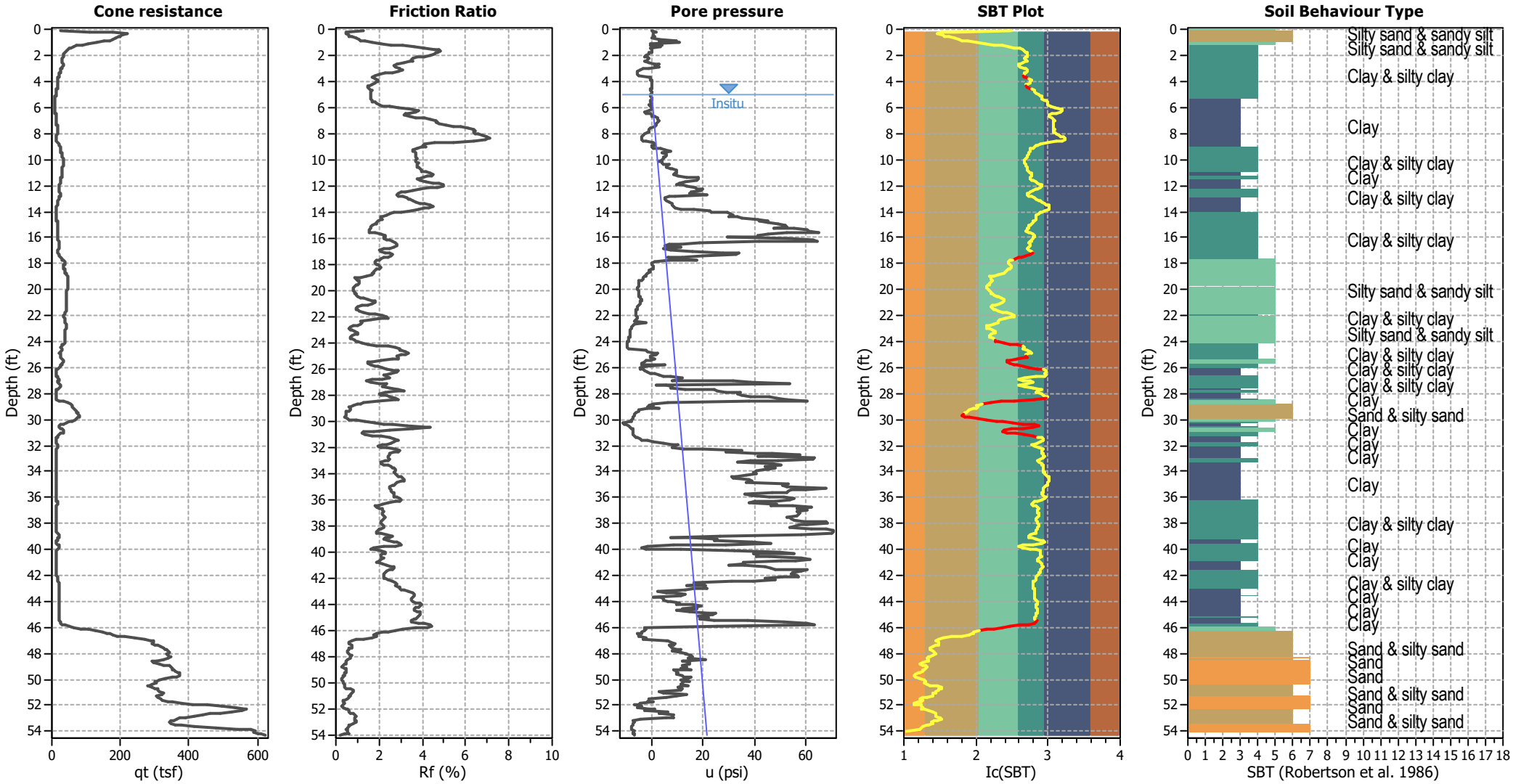






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



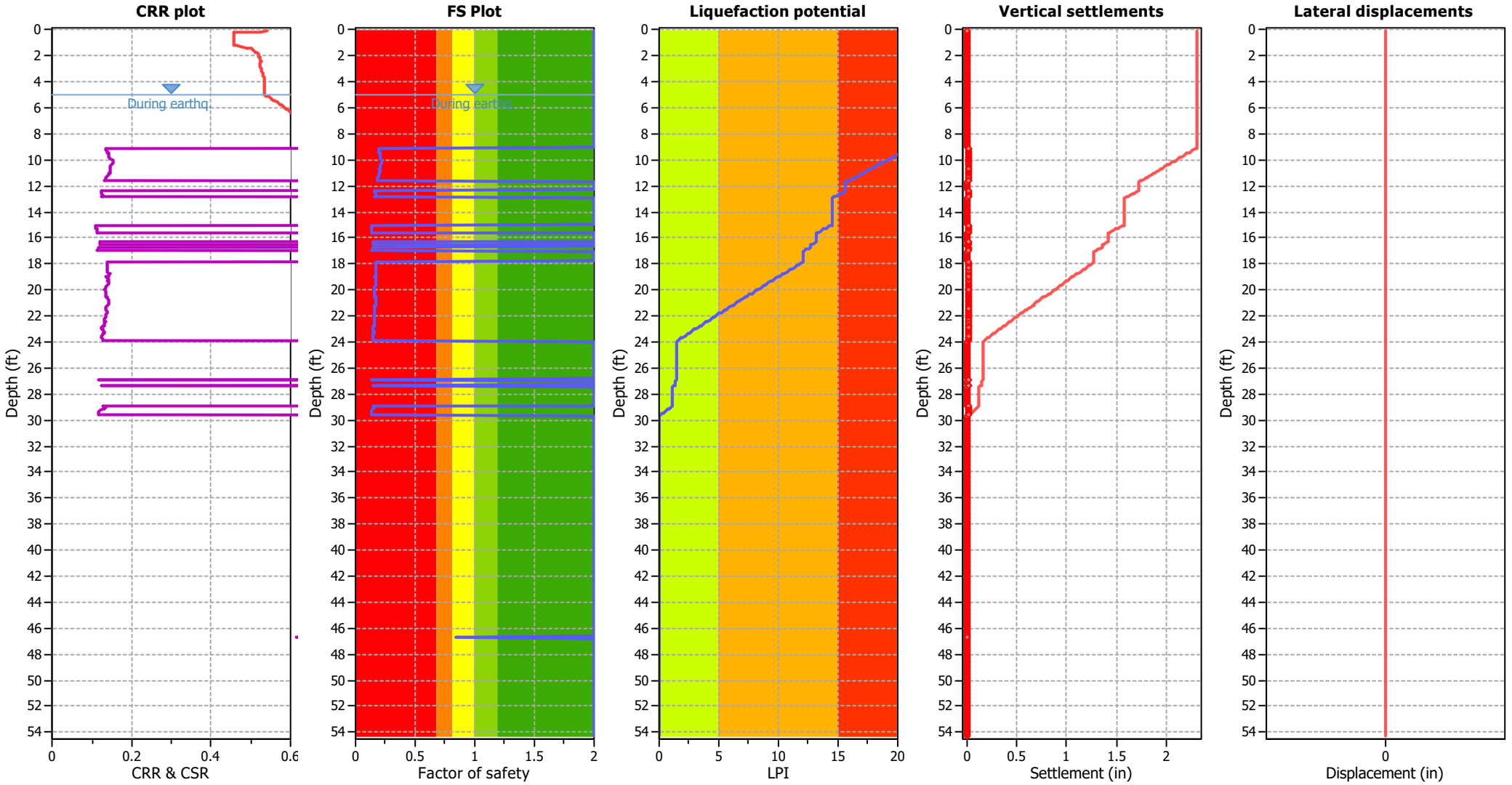
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

SBT legend

1. Sensitive fine grained
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3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
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LPI color scheme

- Very high risk
- High risk
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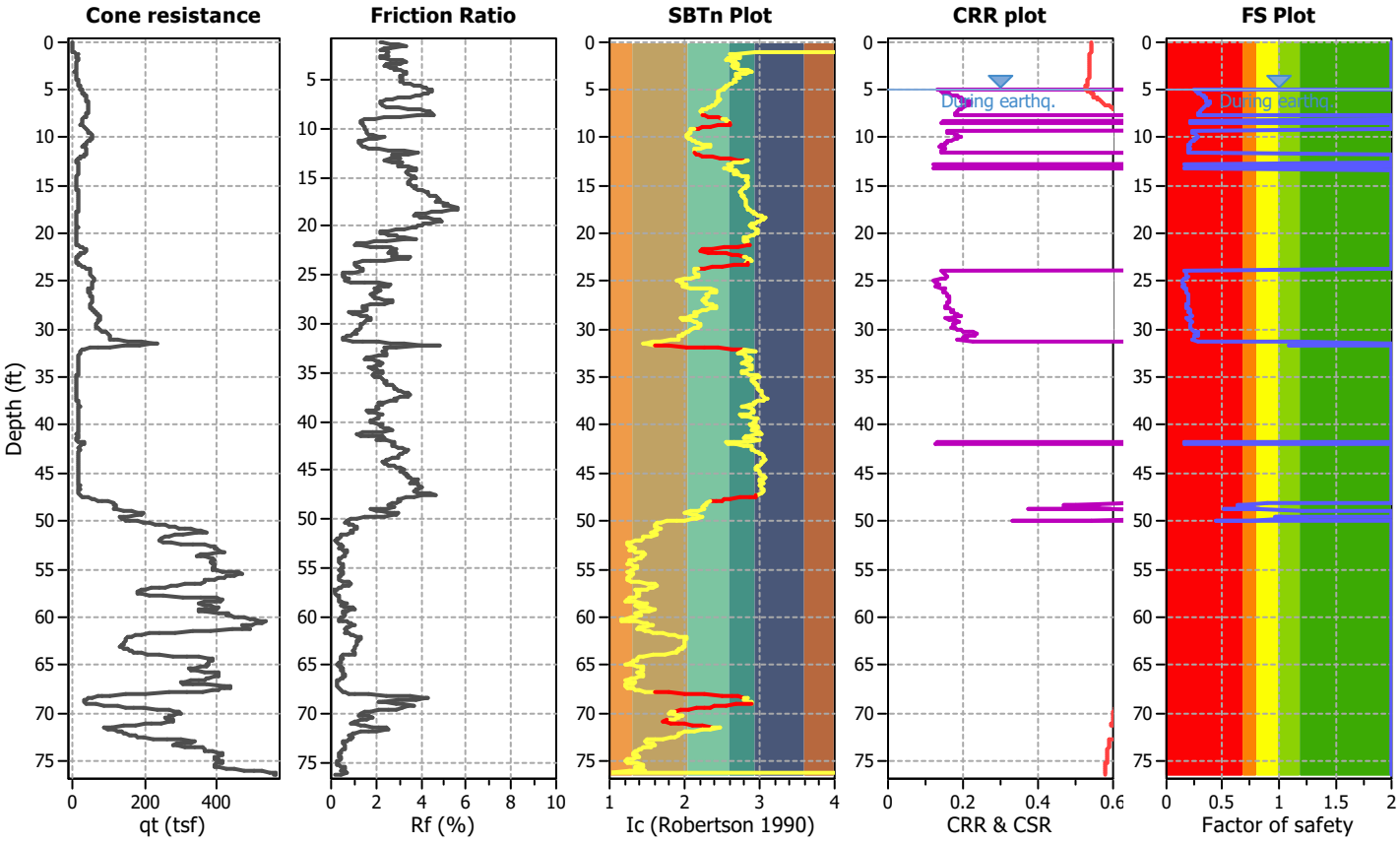
LIQUEFACTION ANALYSIS REPORT

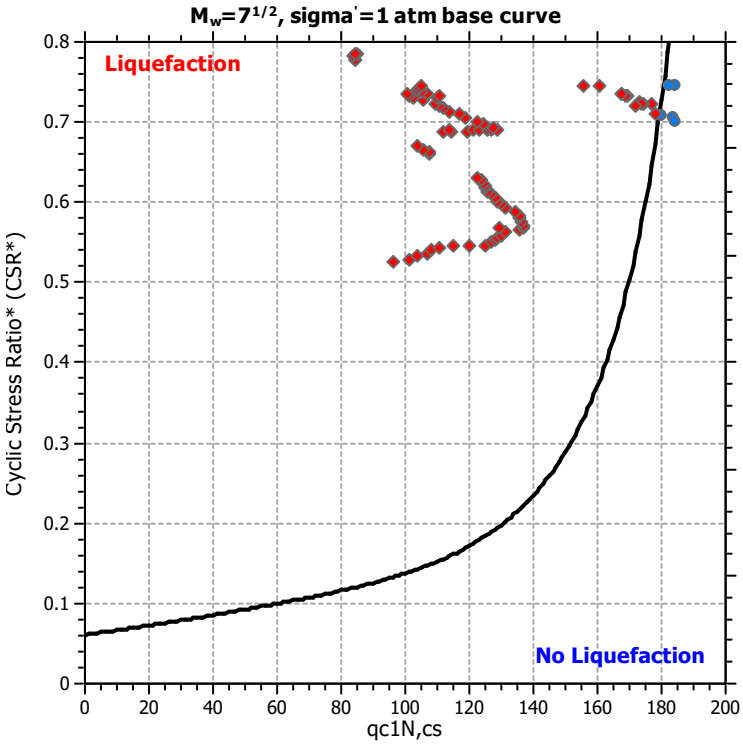
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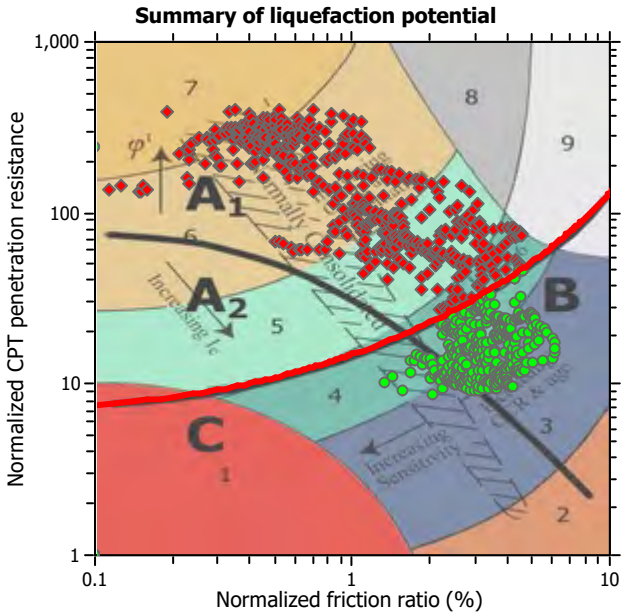
CPT file : 1-CPT4

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	5.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	5.00 ft	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	50.00 ft
Earthquake magnitude M_w:	7.01	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.85	Unit weight calculation:	Based on SBT	K_σ applied:	No		

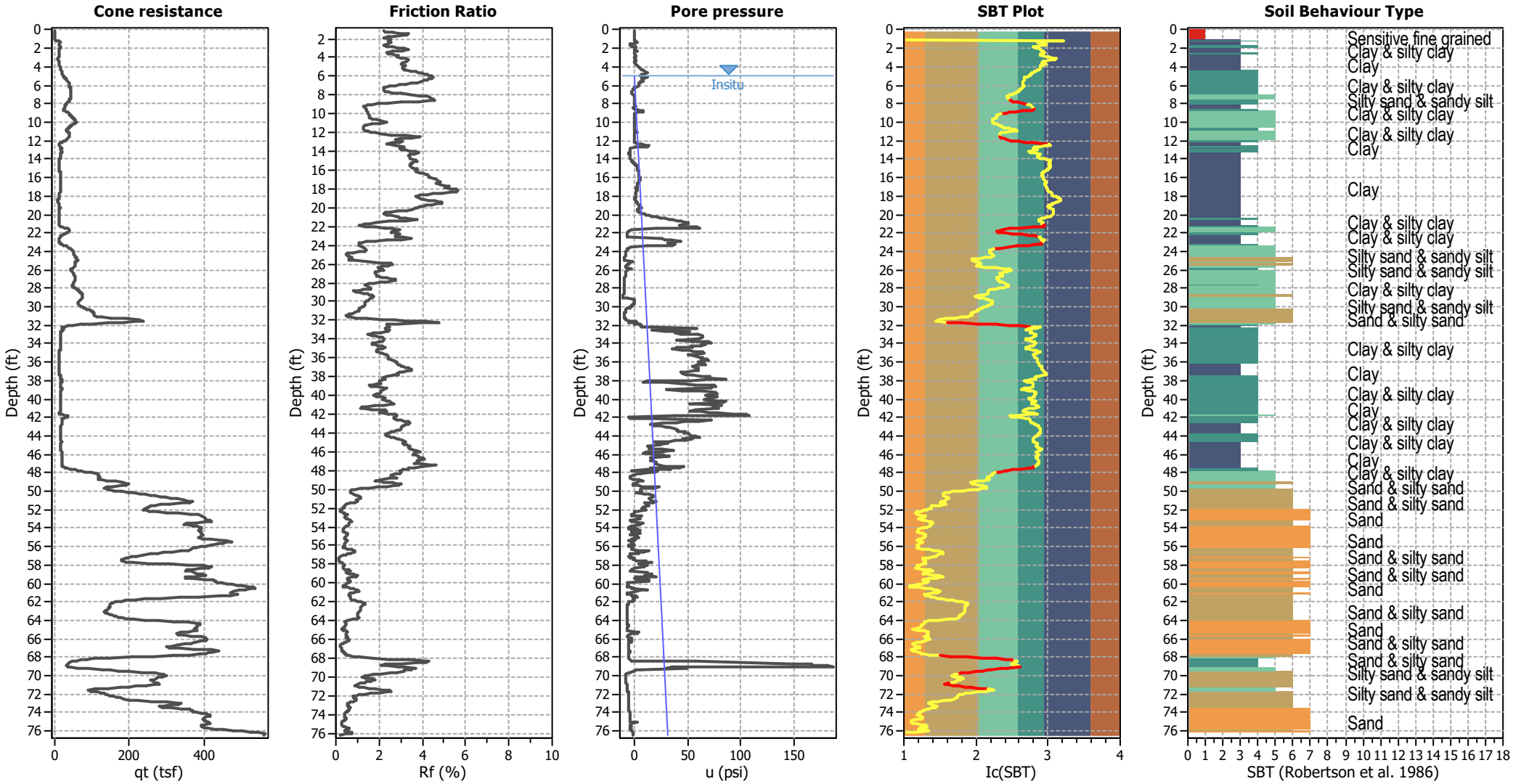






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



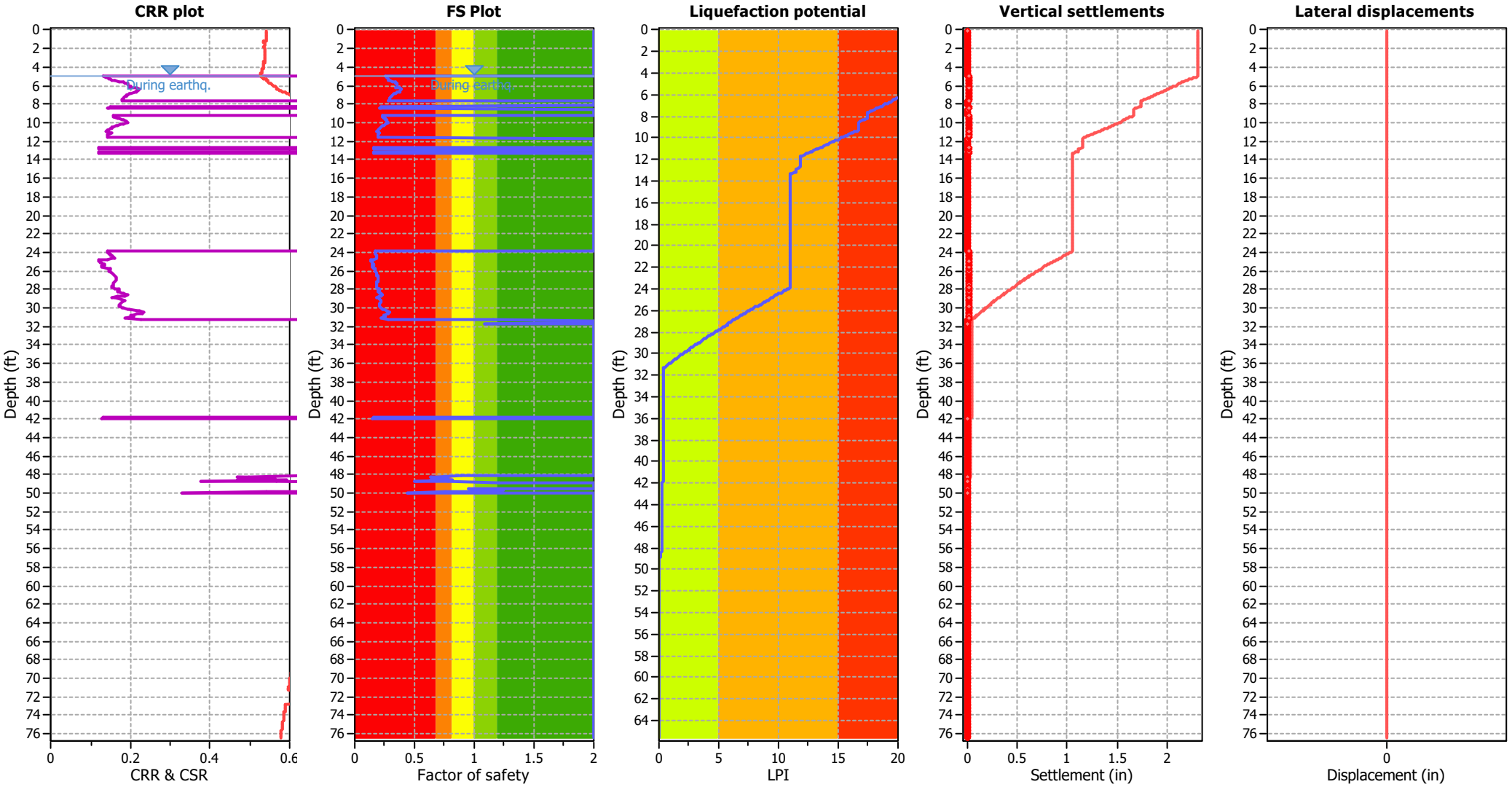
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

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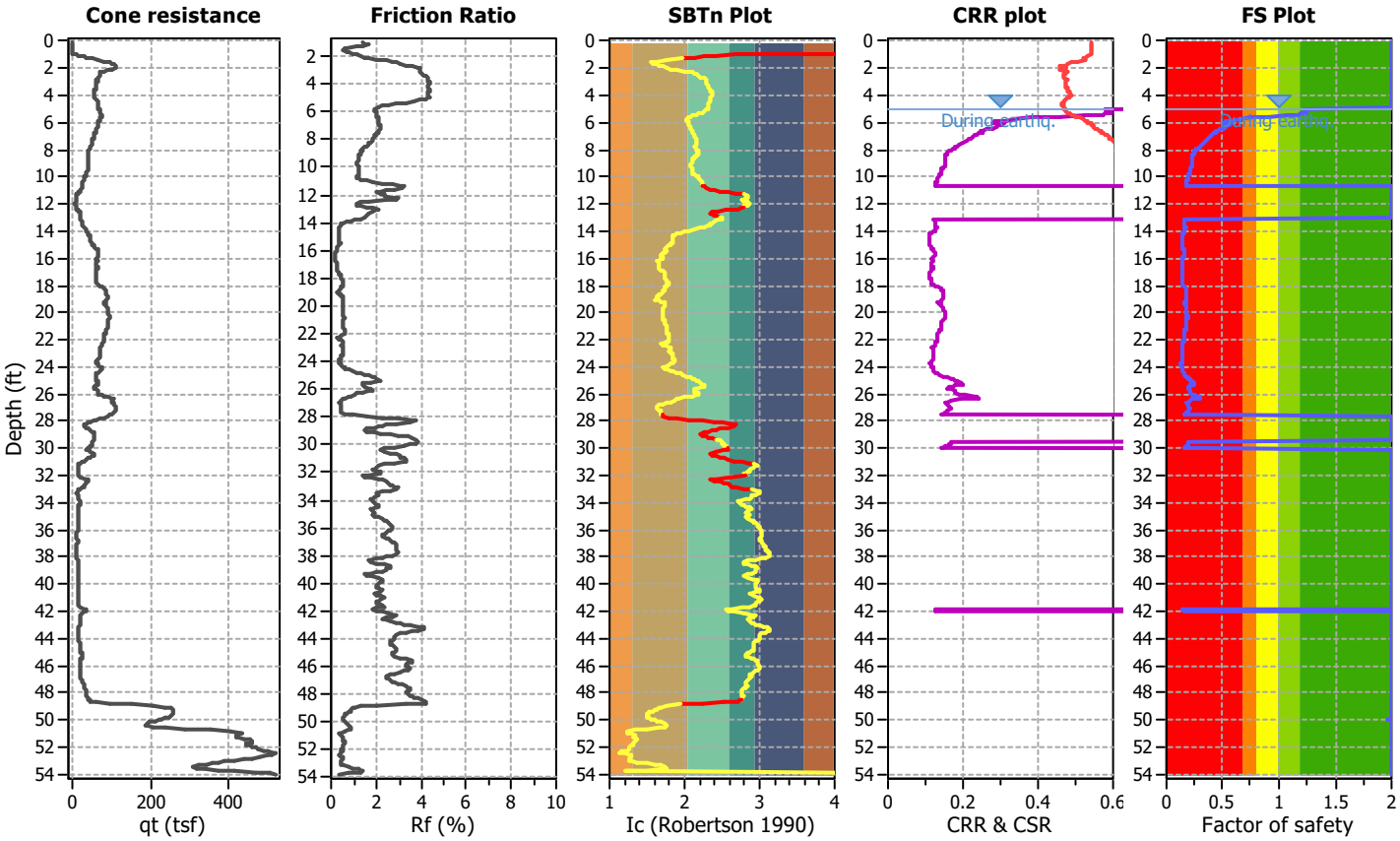
LIQUEFACTION ANALYSIS REPORT

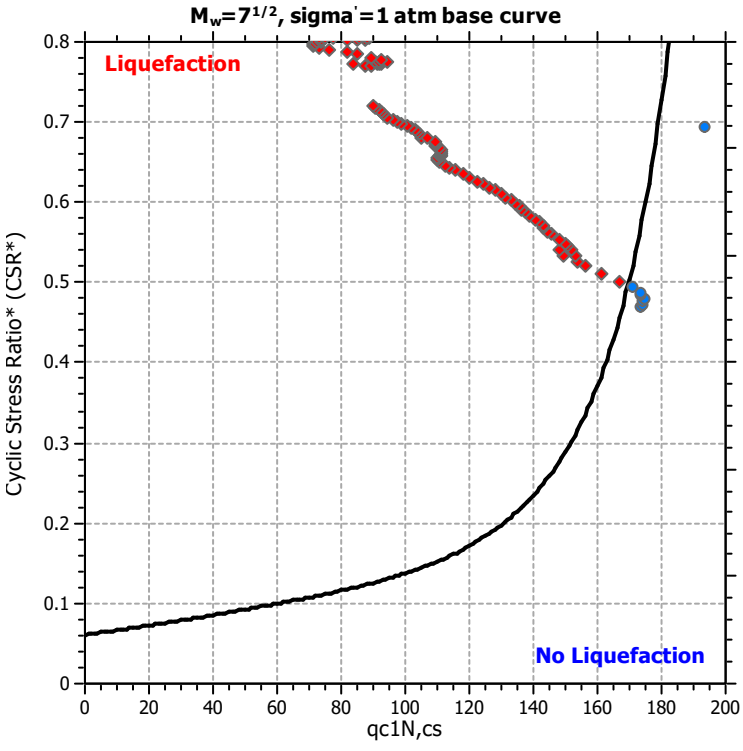
Project title : **Location :**

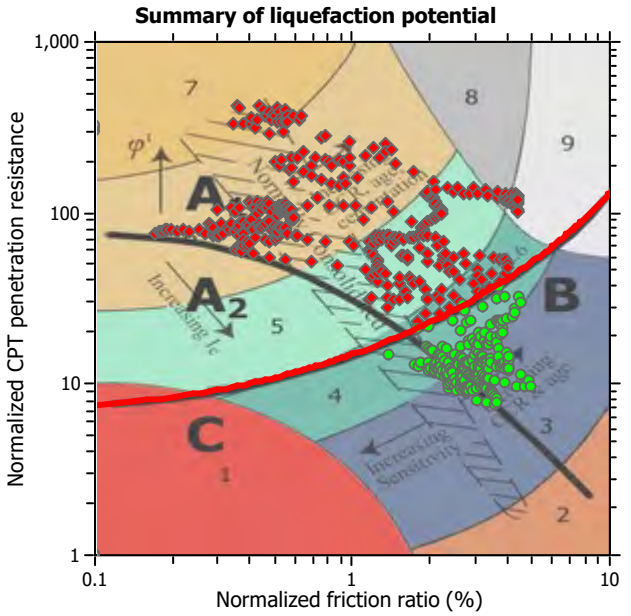
CPT file : 1-CPT5

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	5.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	5.00 ft	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	50.00 ft
Earthquake magnitude M_w:	7.01	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.85	Unit weight calculation:	Based on SBT	K_σ applied:	No		

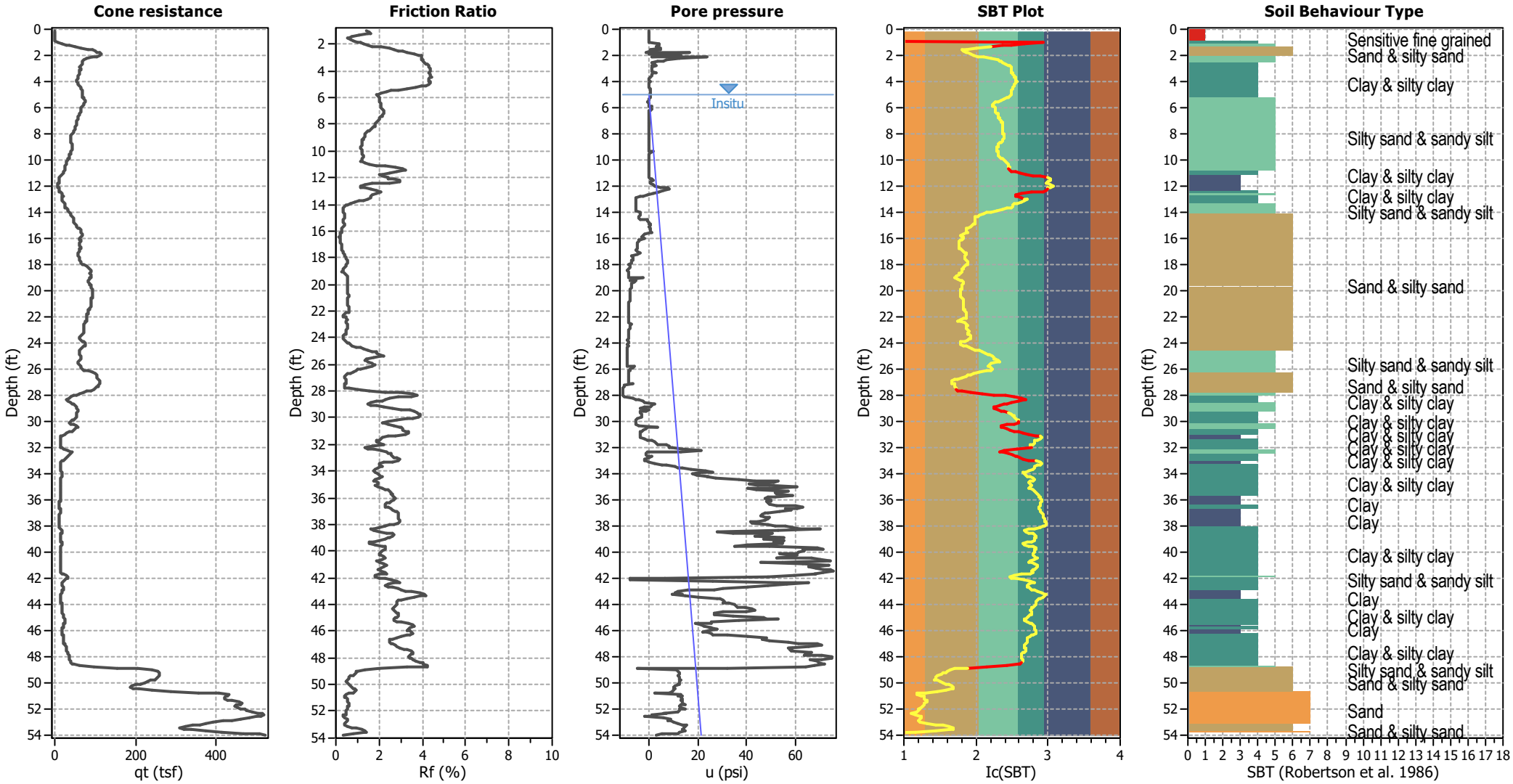






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



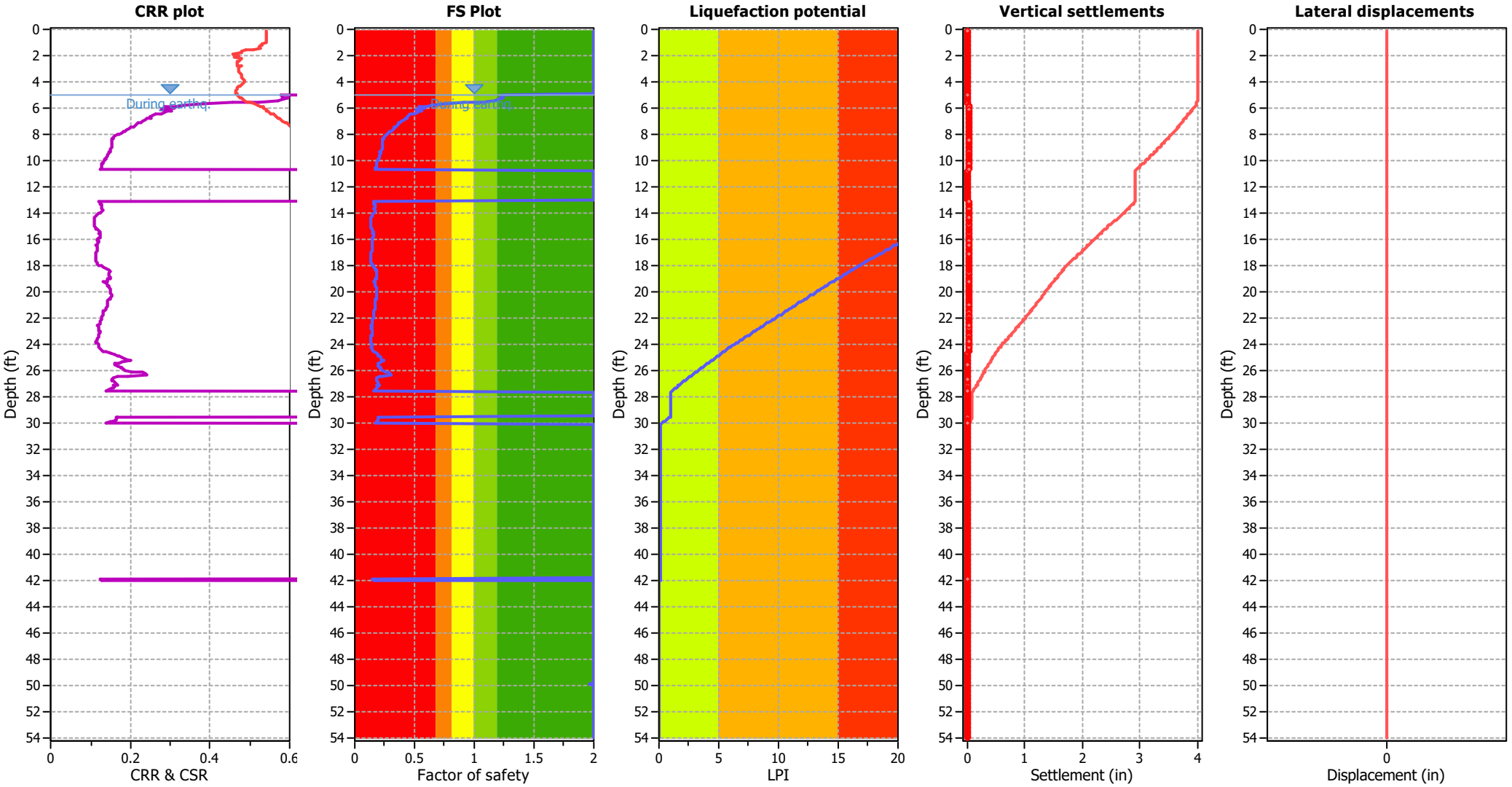
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

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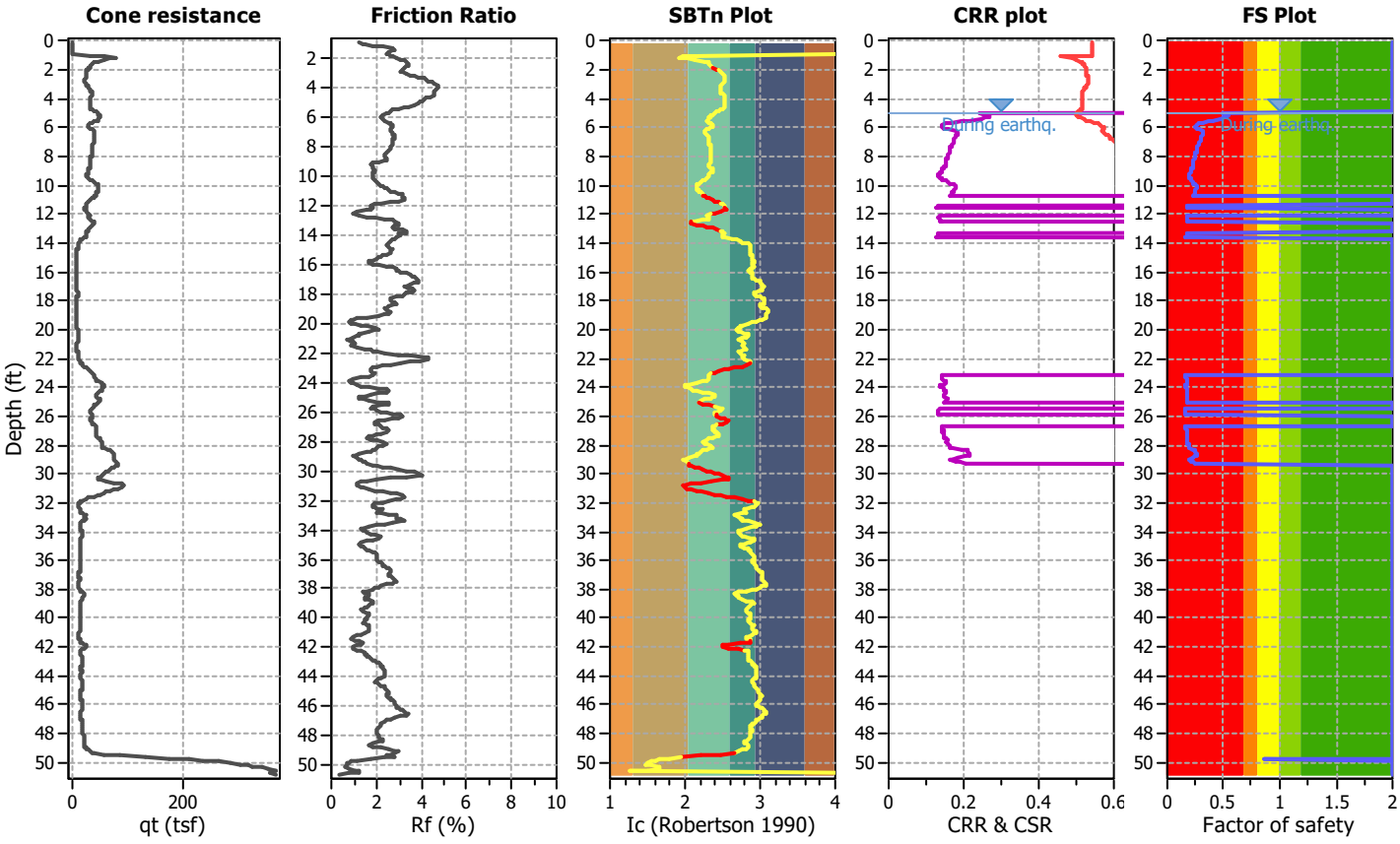
LIQUEFACTION ANALYSIS REPORT

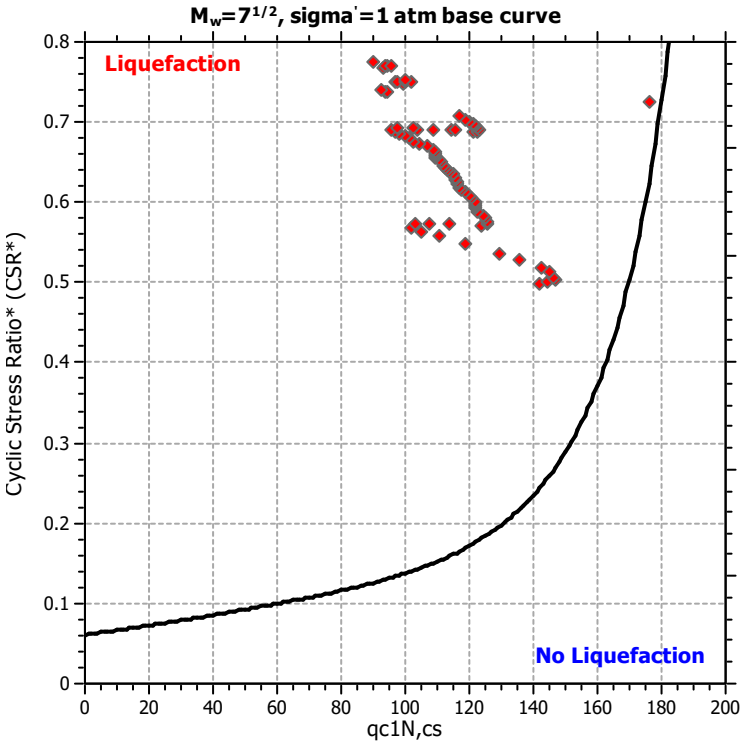
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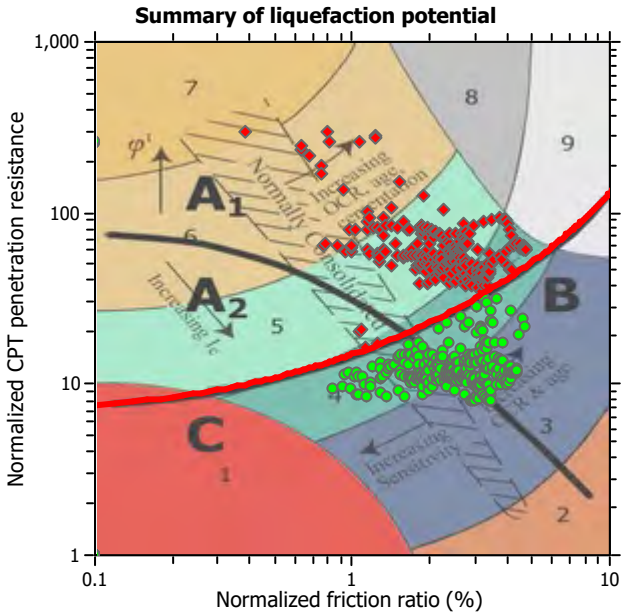
CPT file : 3-CPT1

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	5.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	5.00 ft	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	50.00 ft
Earthquake magnitude M_w:	7.01	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.85	Unit weight calculation:	Based on SBT	K_σ applied:	No		

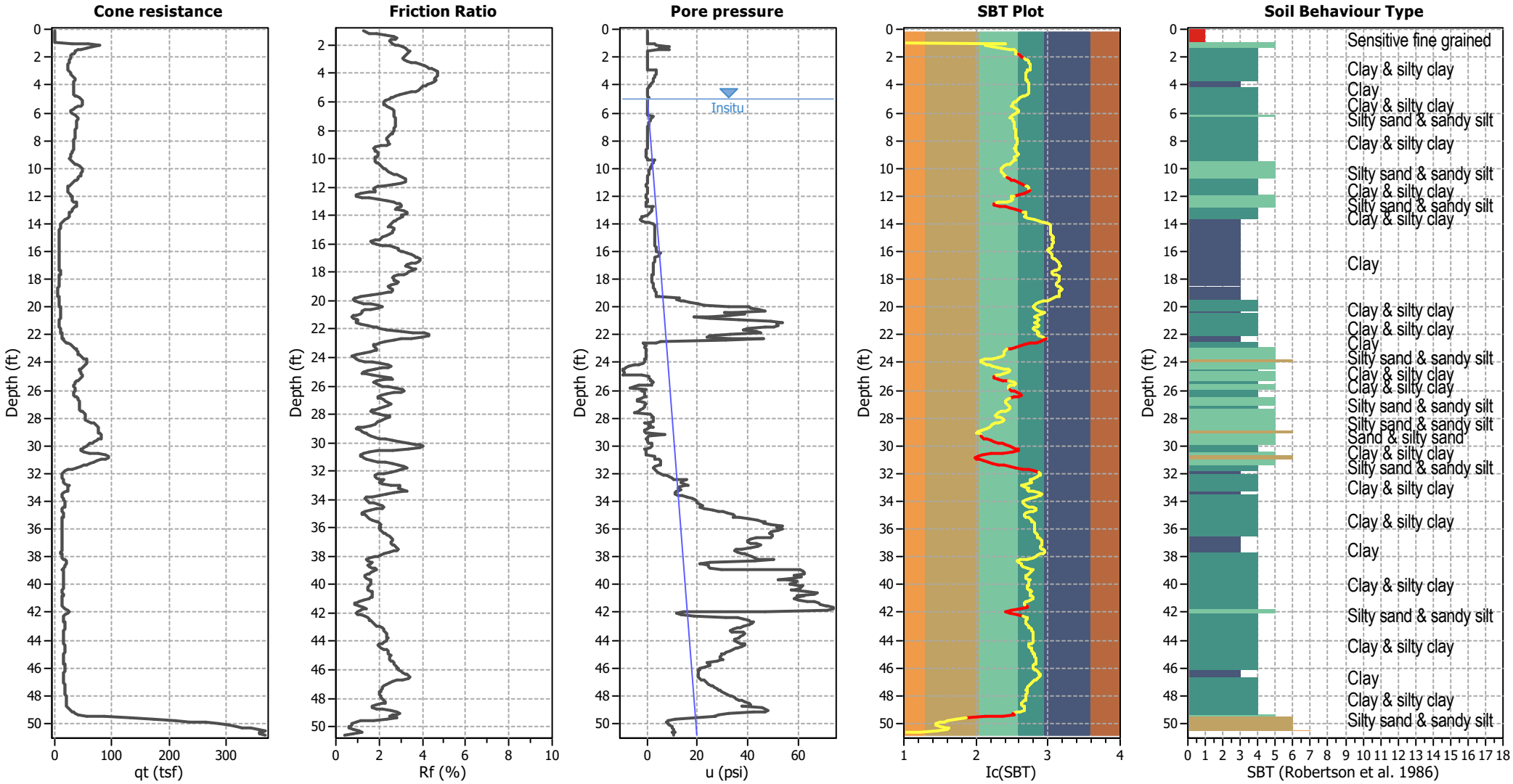






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



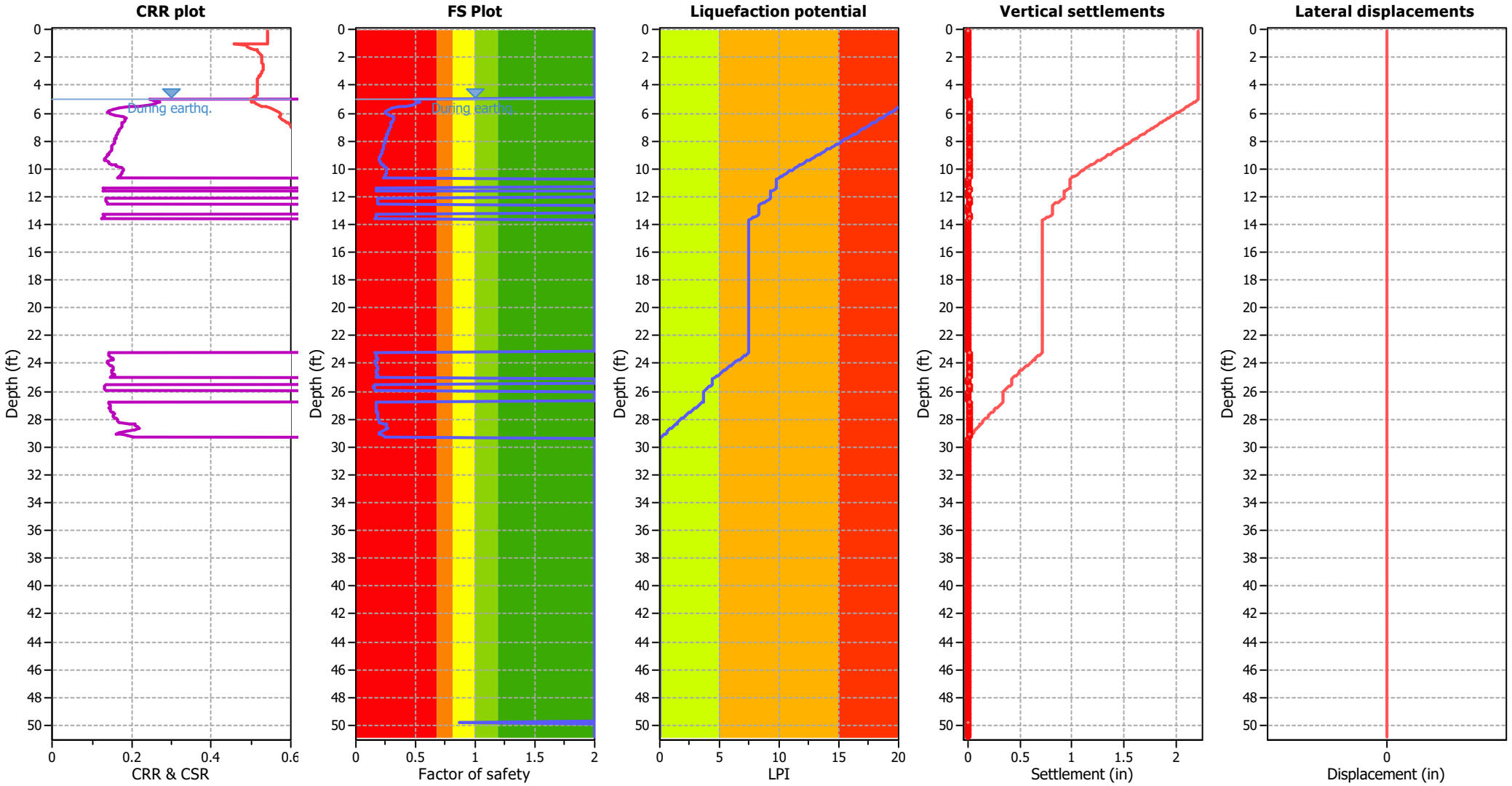
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

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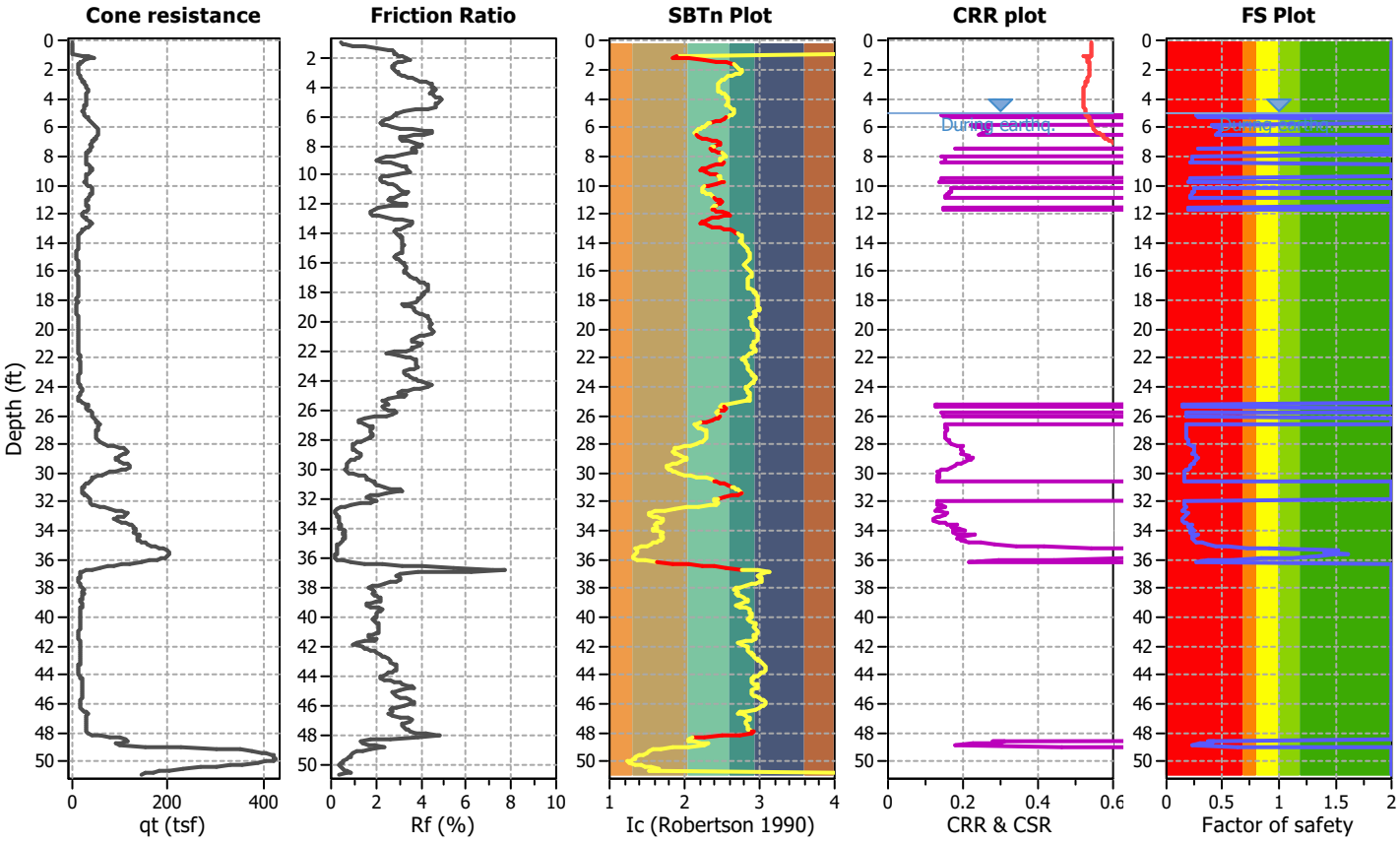
LIQUEFACTION ANALYSIS REPORT

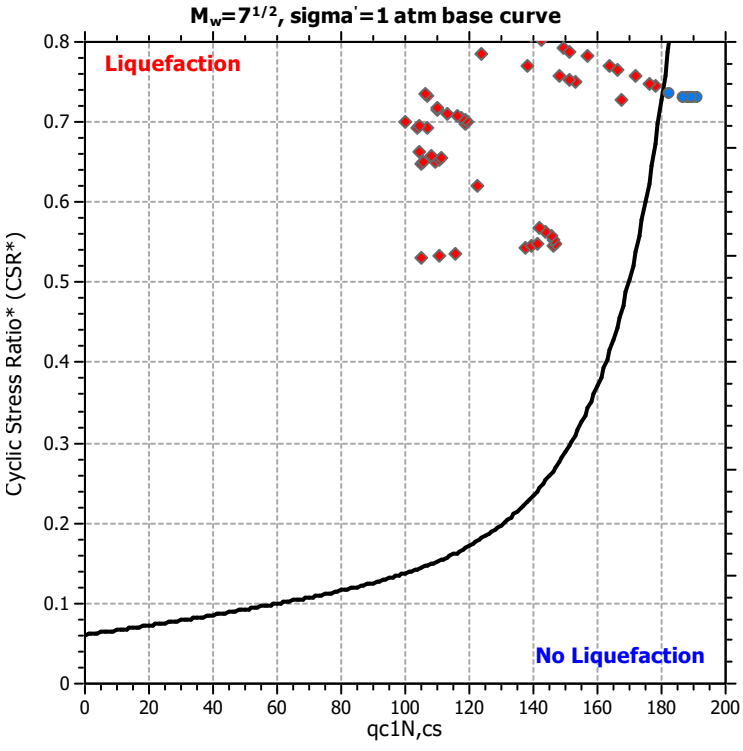
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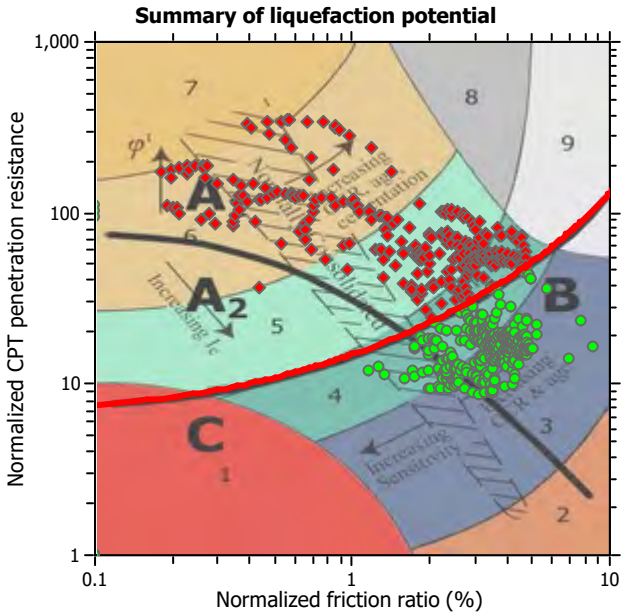
CPT file : 3-CPT2

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	5.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	5.00 ft	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	50.00 ft
Earthquake magnitude M_w:	7.01	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.85	Unit weight calculation:	Based on SBT	K_σ applied:	No		

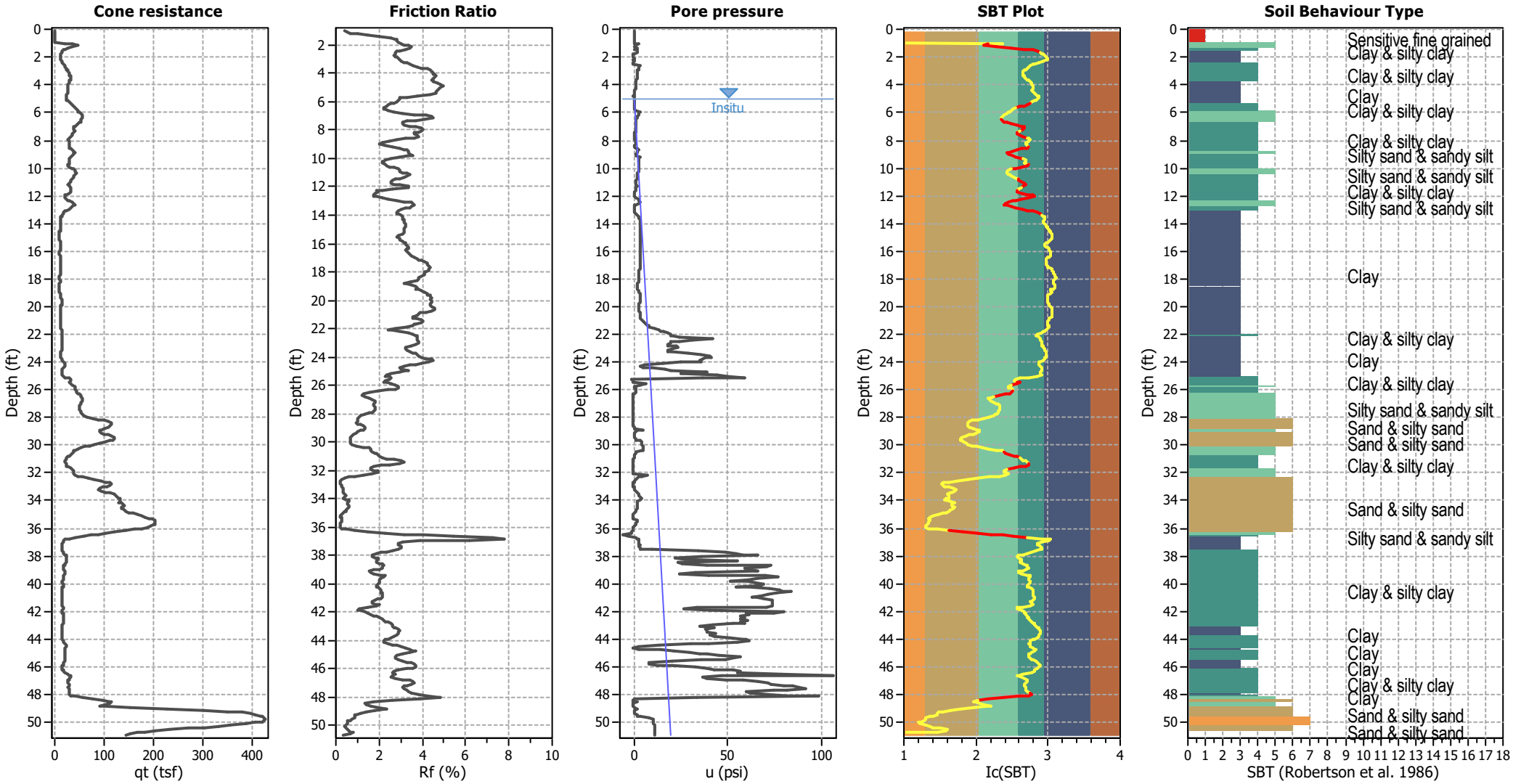






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



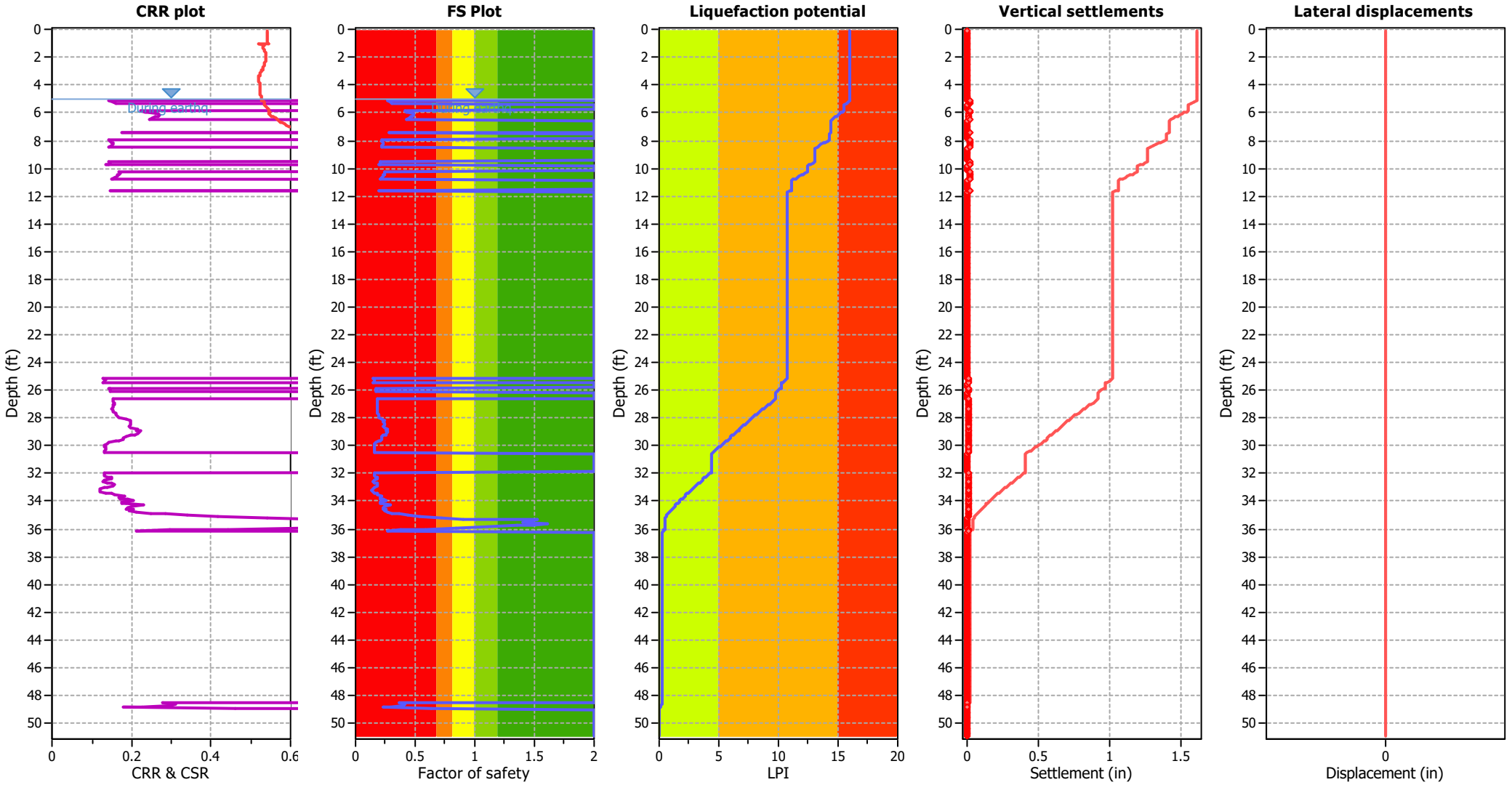
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
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LPI color scheme

- Very high risk
- High risk
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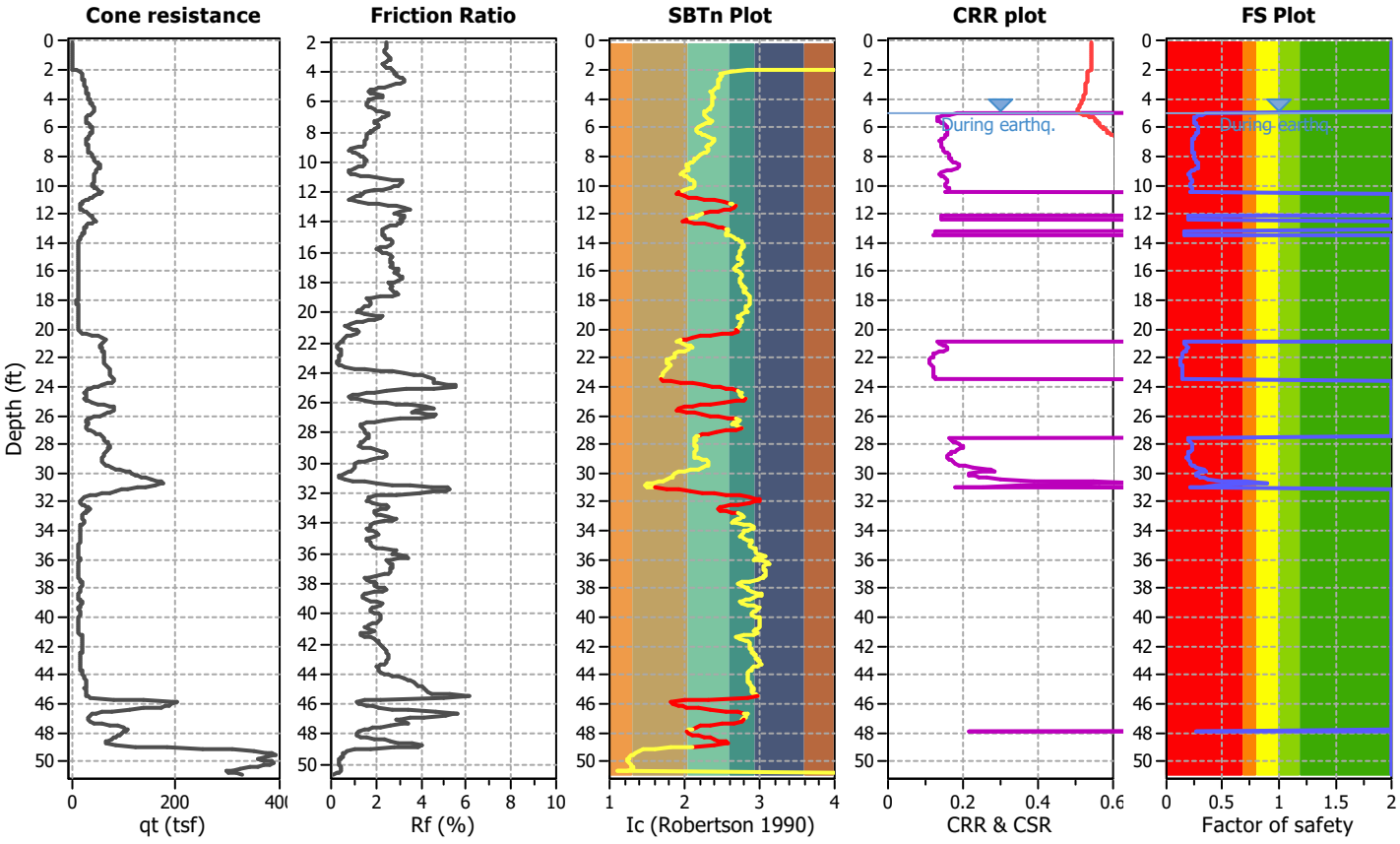
LIQUEFACTION ANALYSIS REPORT

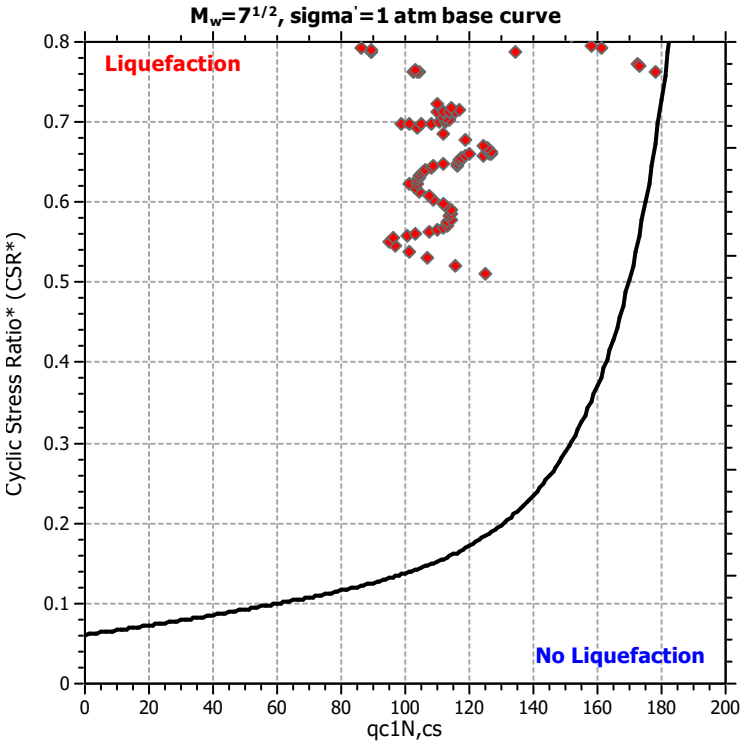
Project title : **Location :**

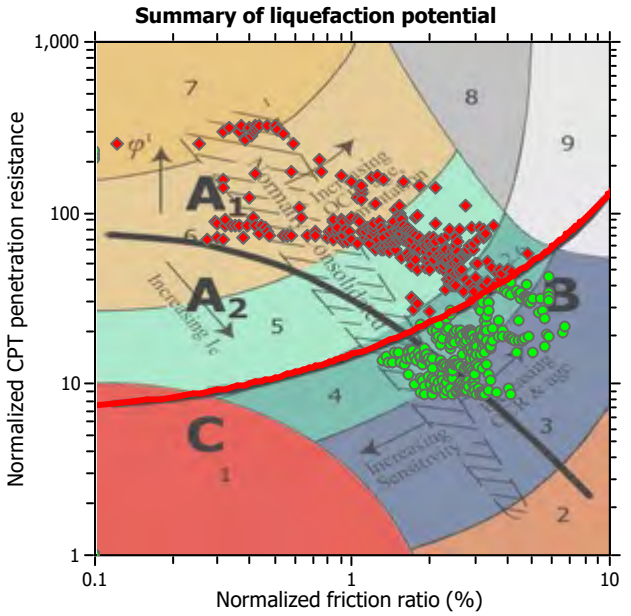
CPT file : 3-CPT3

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	5.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	5.00 ft	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	50.00 ft
Earthquake magnitude M_w:	7.01	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.85	Unit weight calculation:	Based on SBT	K_σ applied:	No		

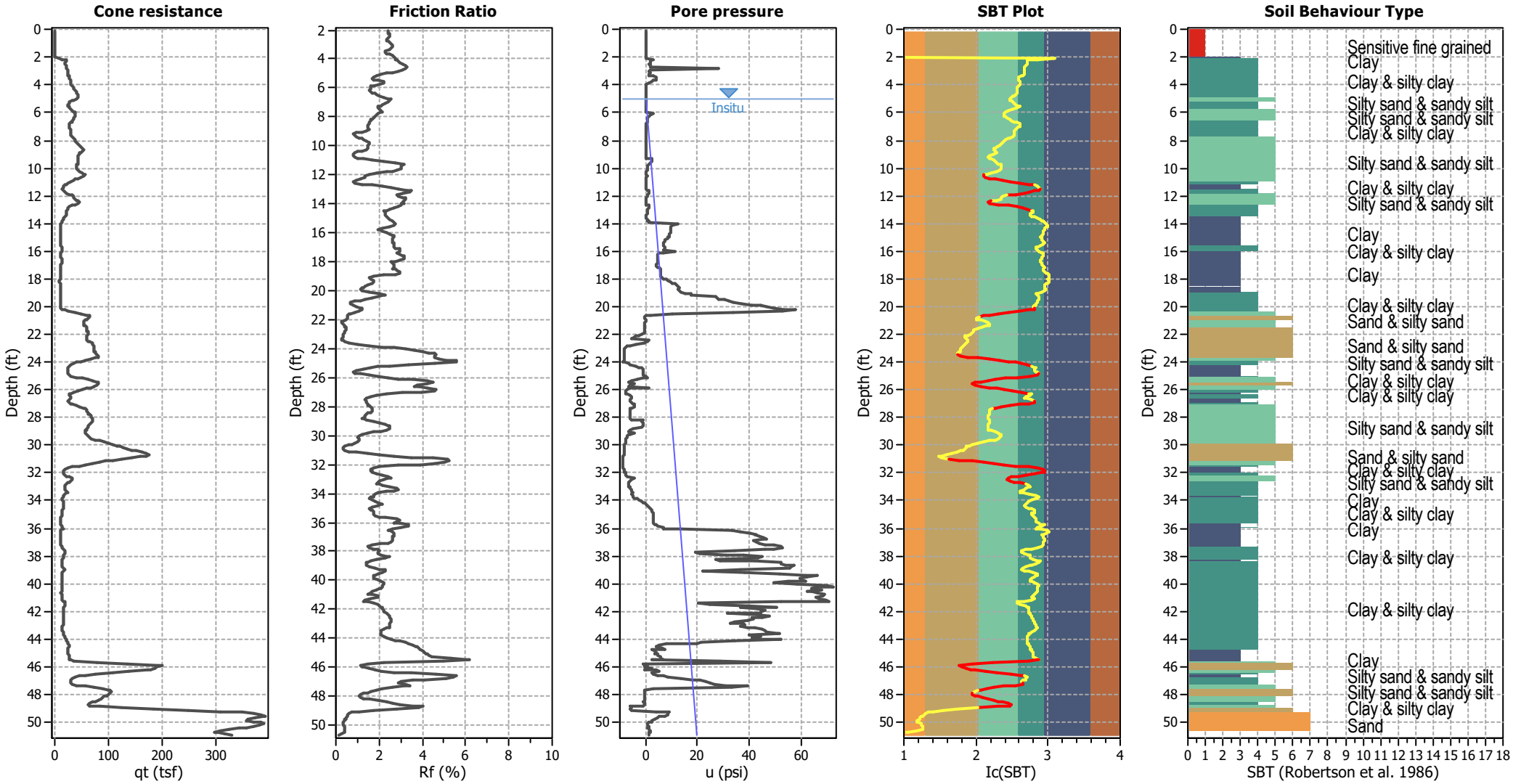






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
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CPT basic interpretation plots



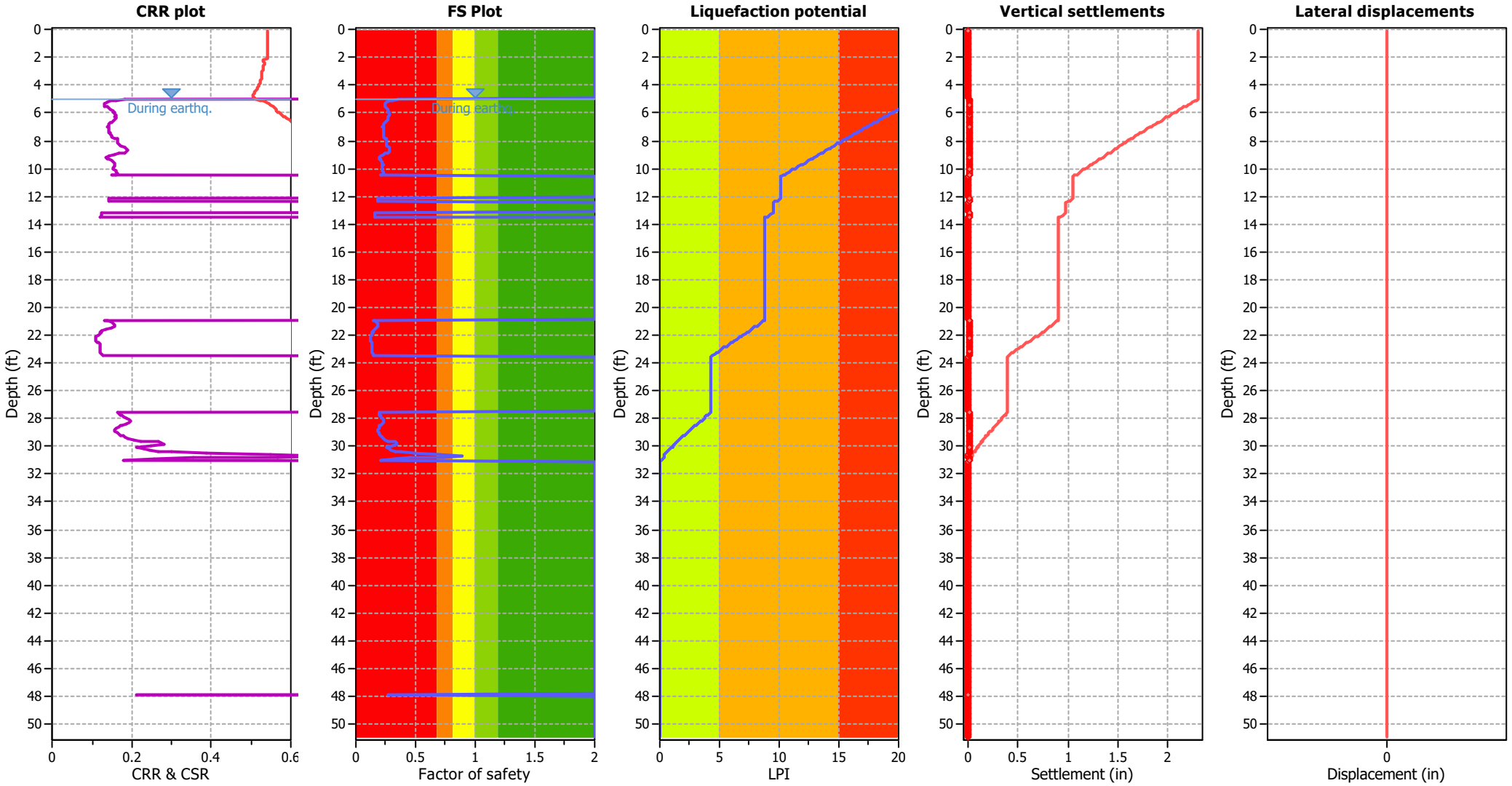
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
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LPI color scheme

- Very high risk
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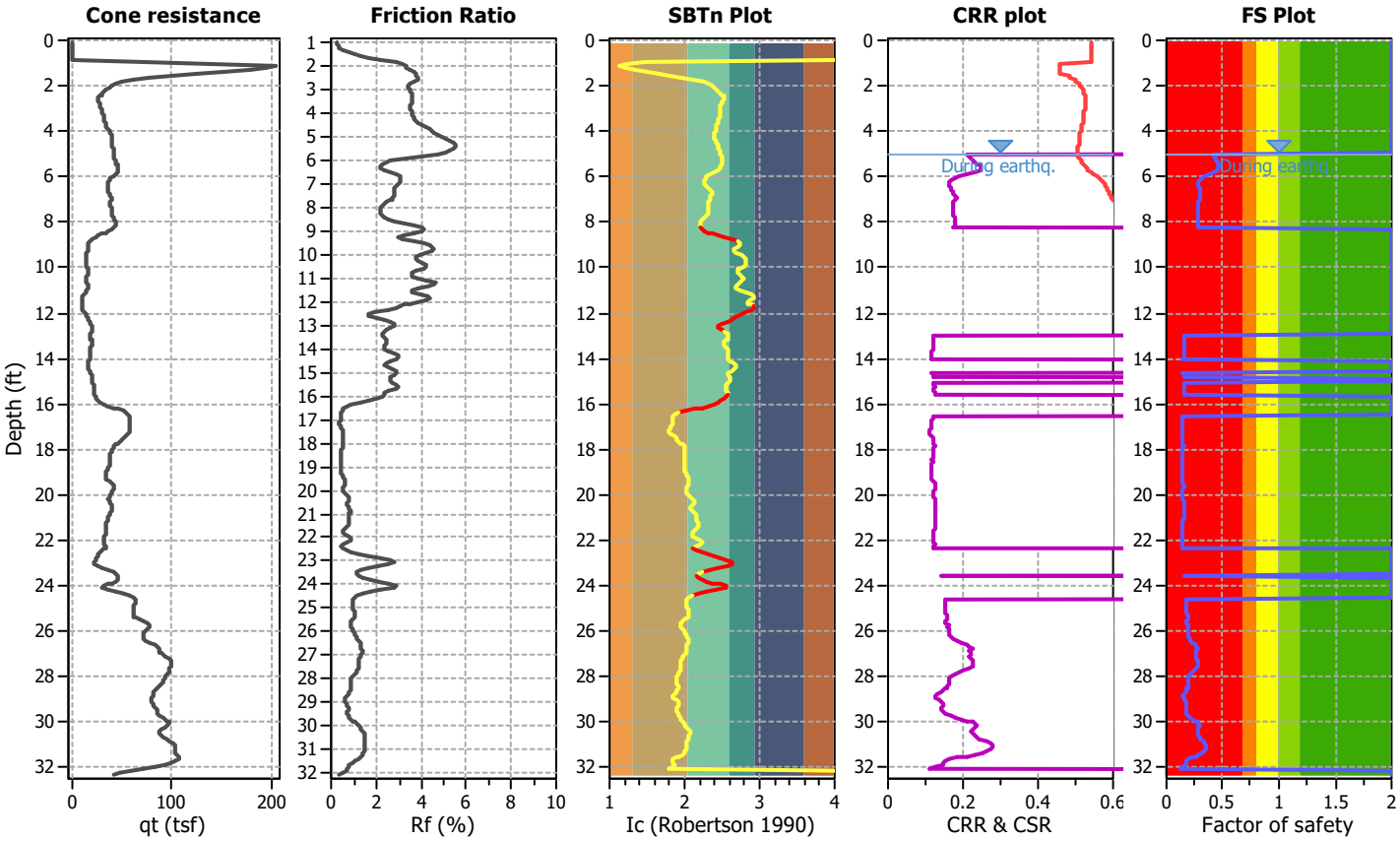
LIQUEFACTION ANALYSIS REPORT

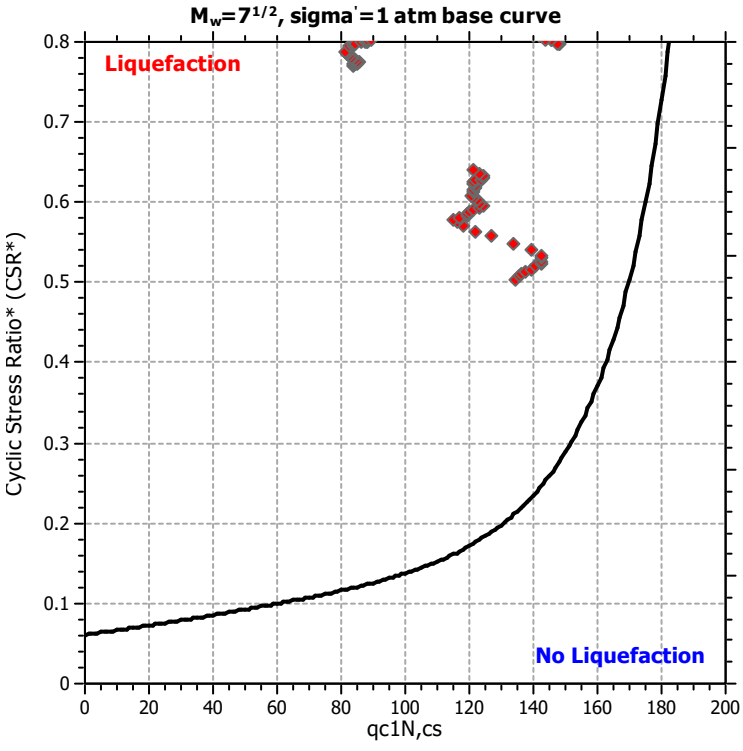
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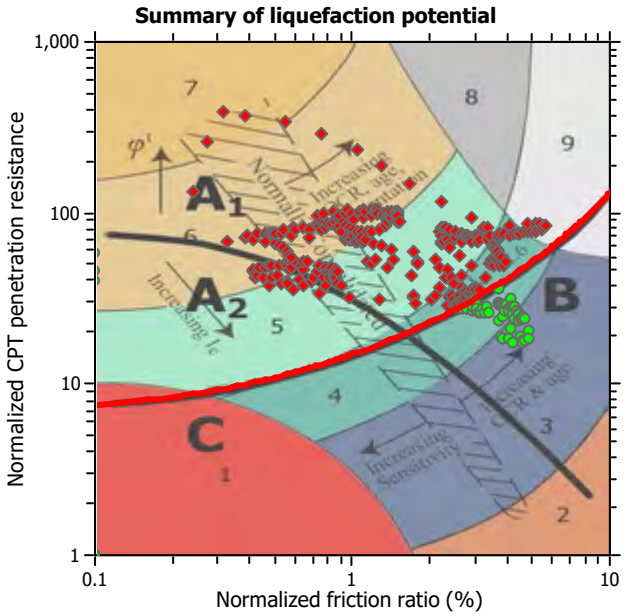
CPT file : 3-CPT4

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	5.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	5.00 ft	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	50.00 ft
Earthquake magnitude M_w:	7.01	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.85	Unit weight calculation:	Based on SBT	K_σ applied:	No		

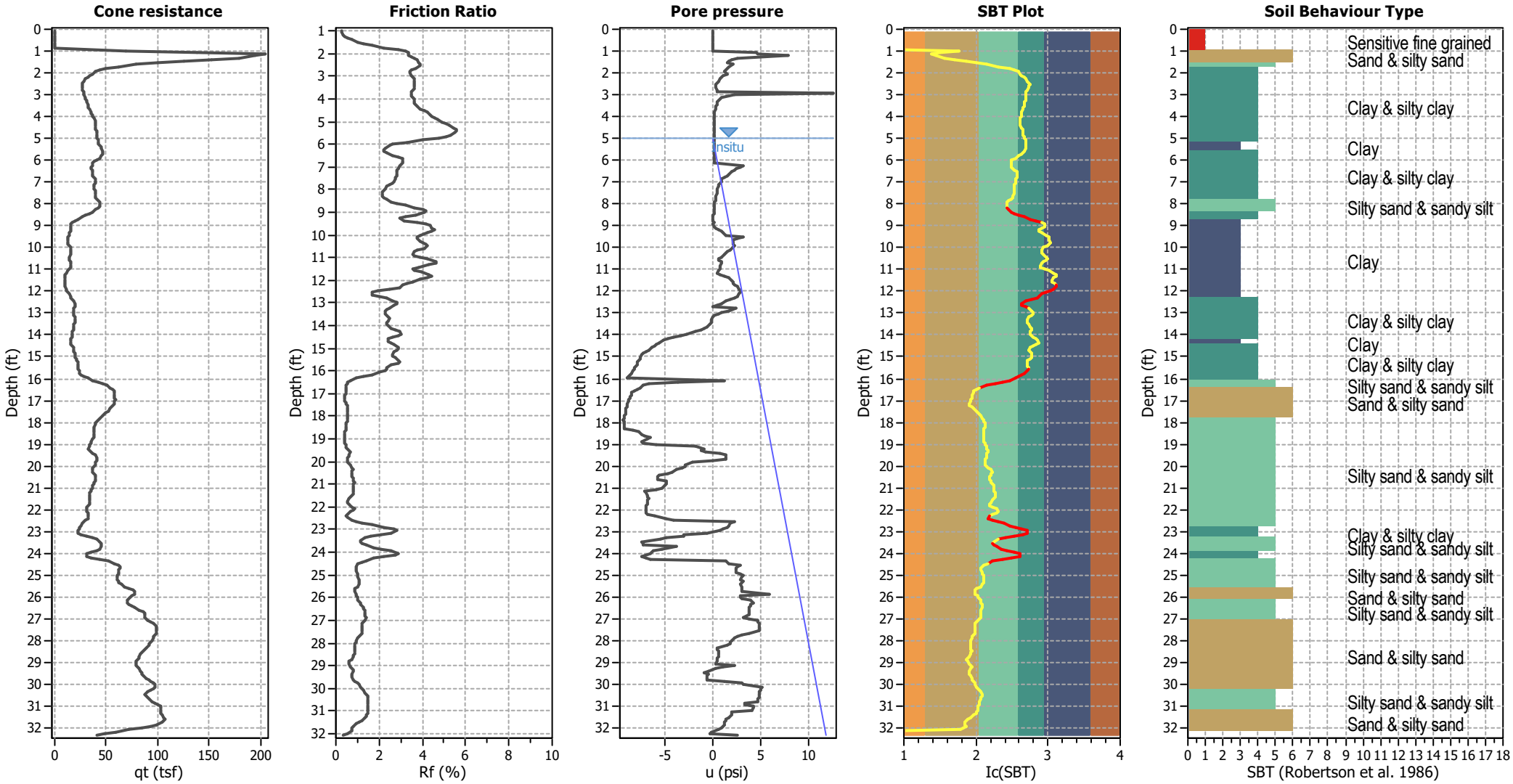






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



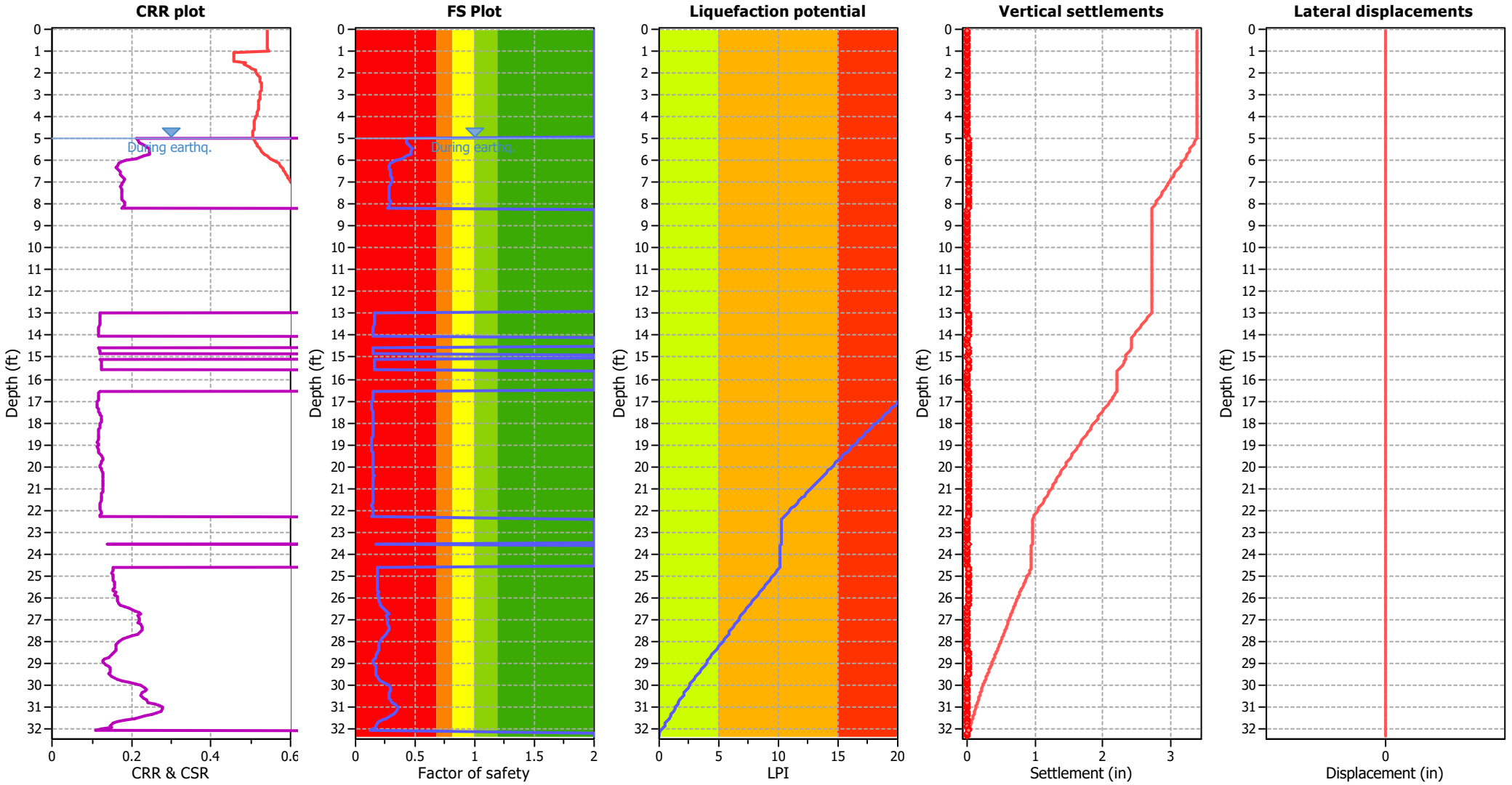
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

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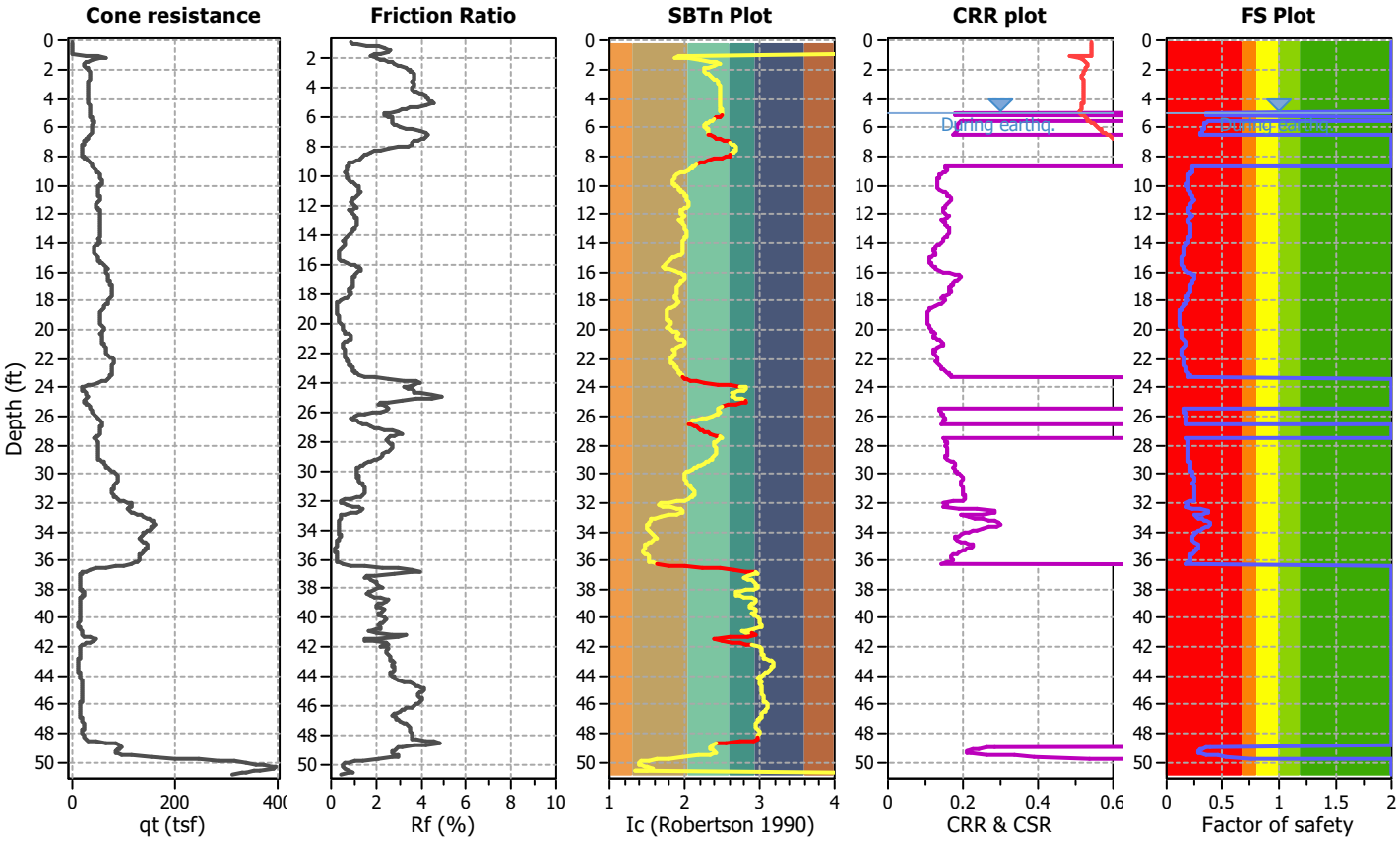
LIQUEFACTION ANALYSIS REPORT

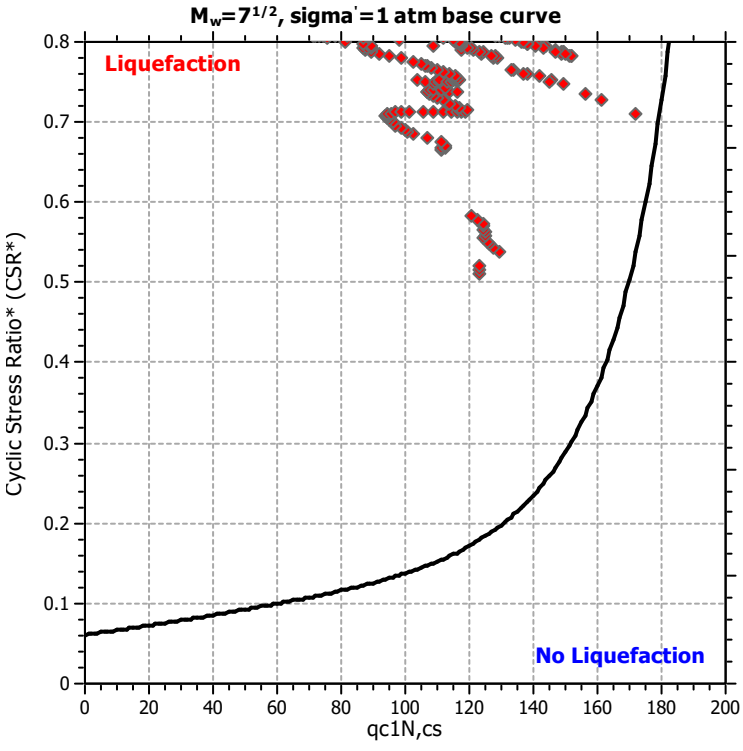
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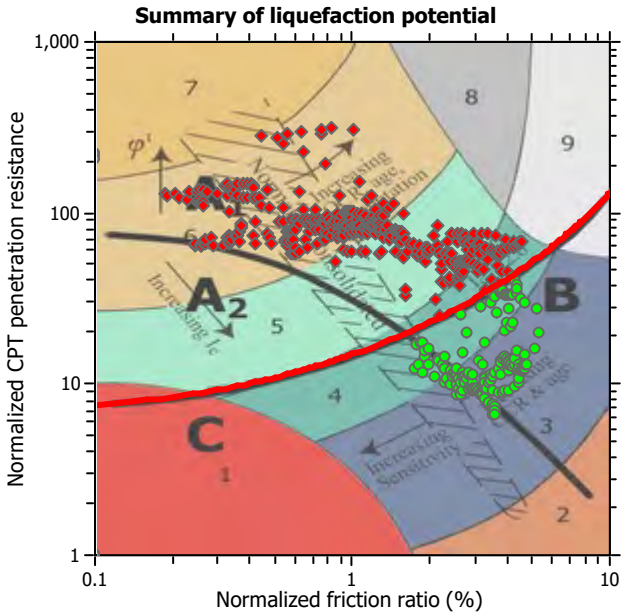
CPT file : 3-CPT5

Input parameters and analysis data

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Fines correction method:	B&I (2014)	G.W.T. (earthq.):	5.00 ft	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	50.00 ft
Earthquake magnitude M_w:	7.01	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.85	Unit weight calculation:	Based on SBT	K_σ applied:	No		

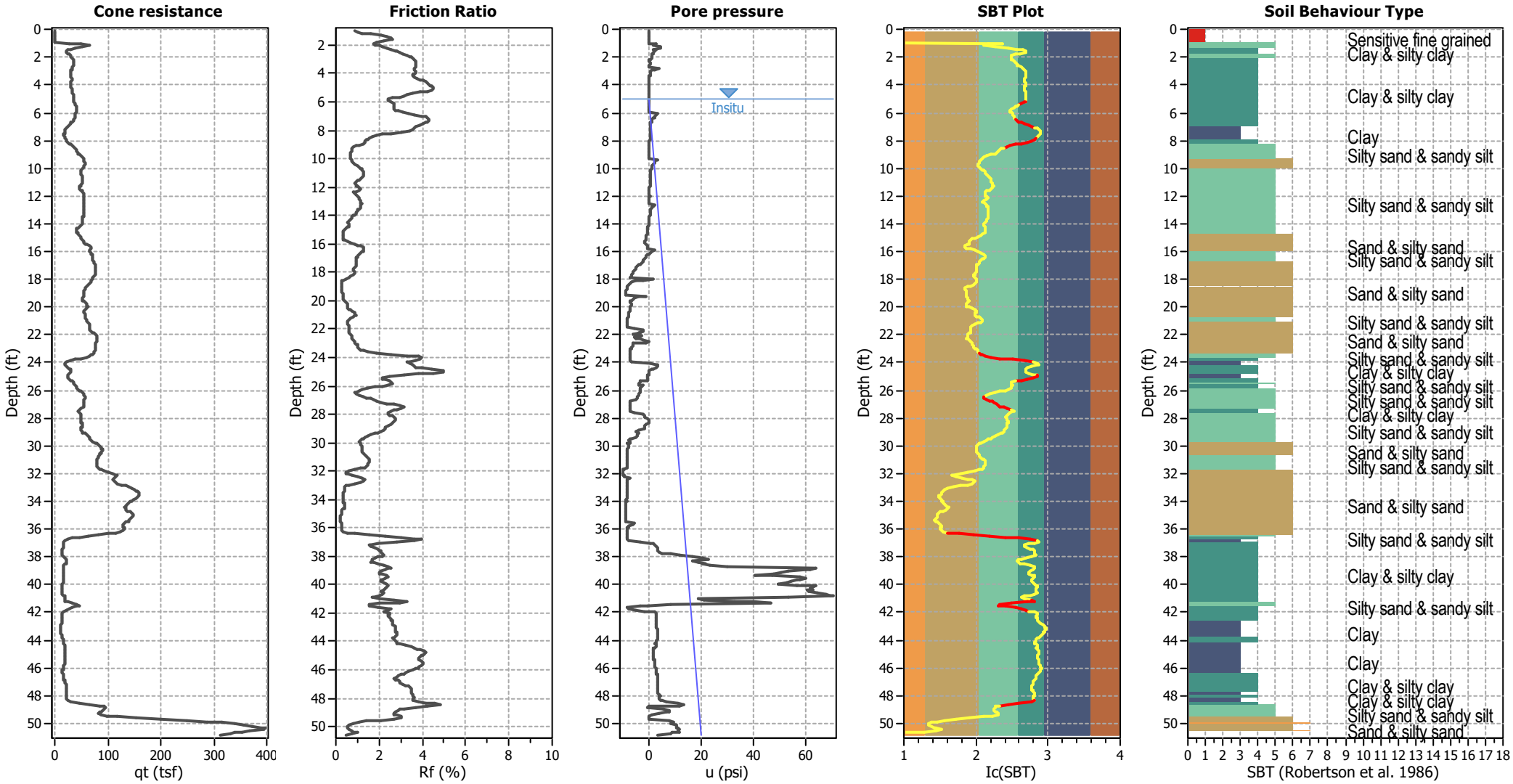






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



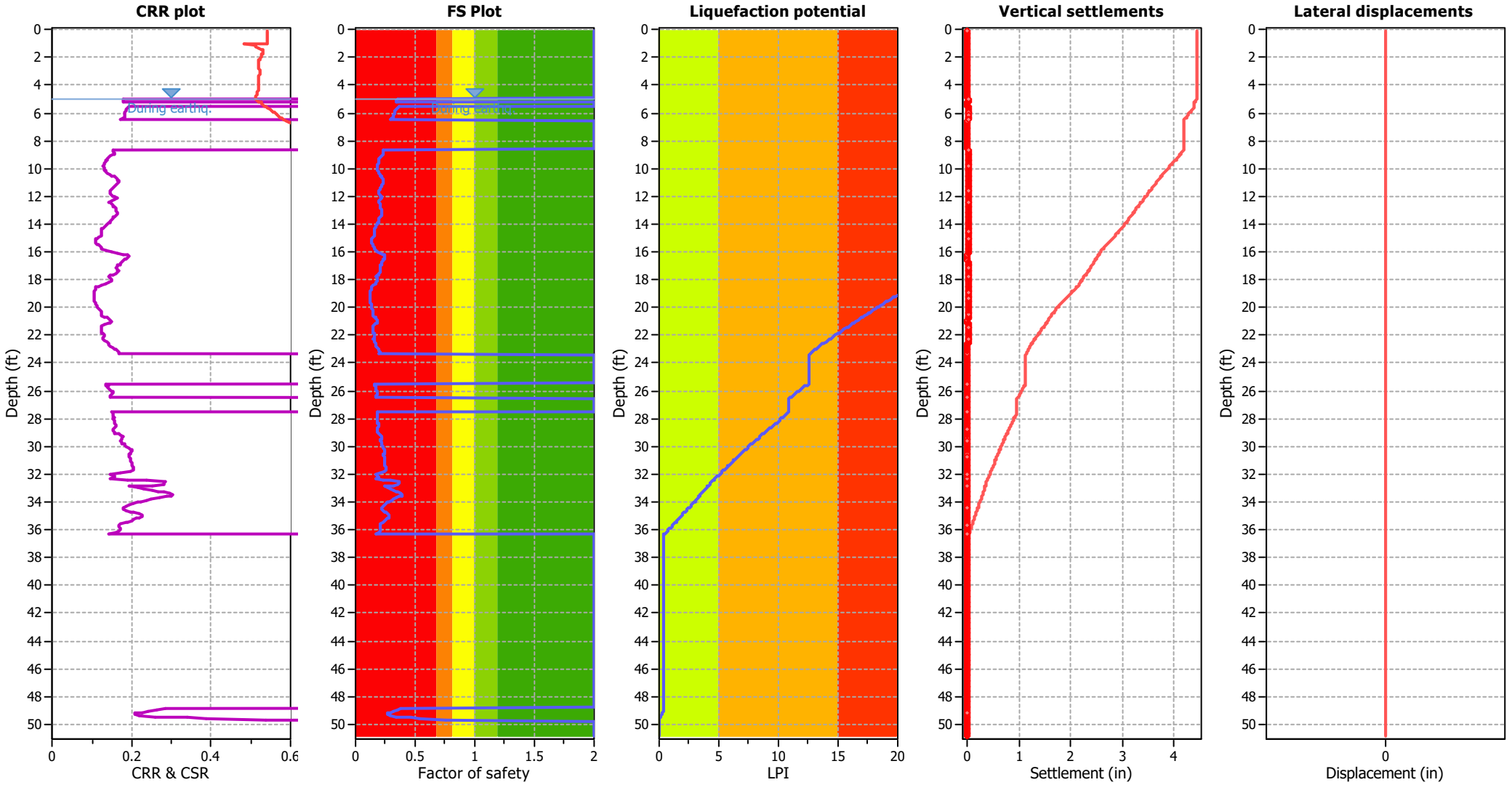
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

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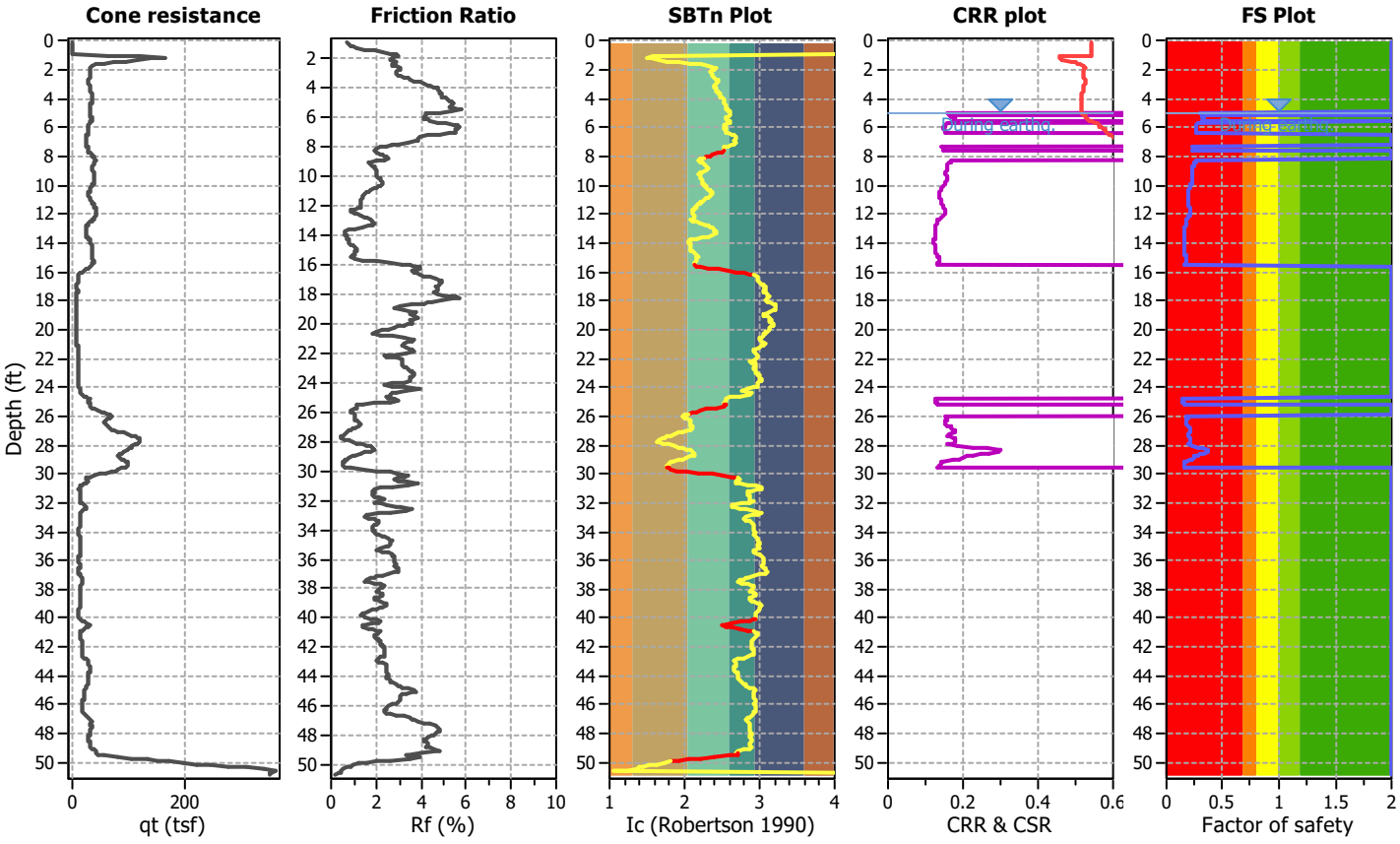
LIQUEFACTION ANALYSIS REPORT

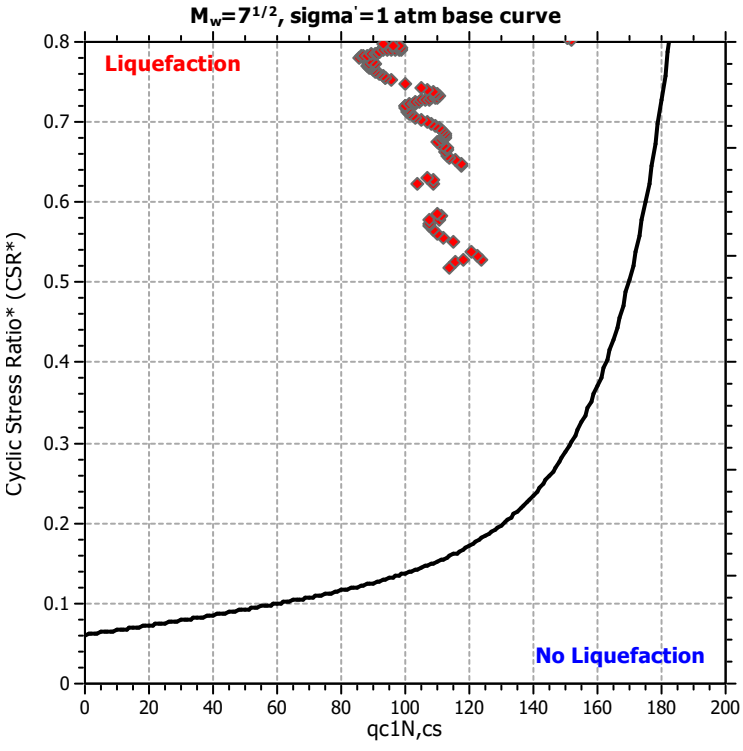
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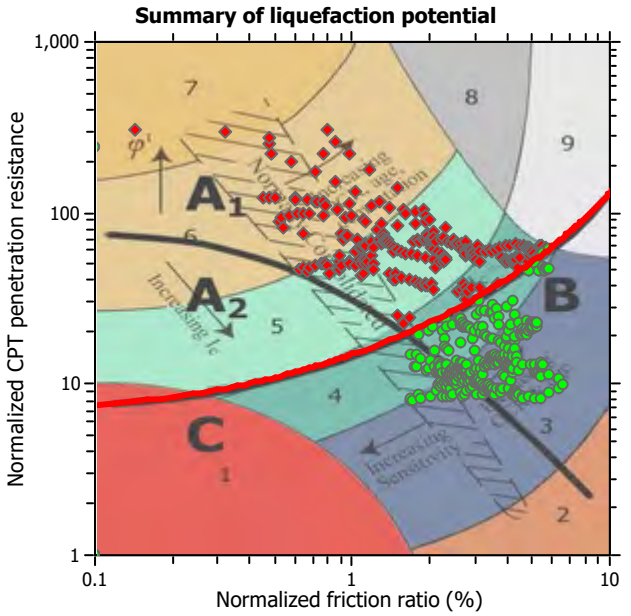
CPT file : 3-CPT6

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	5.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	5.00 ft	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	50.00 ft
Earthquake magnitude M_w:	7.01	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.85	Unit weight calculation:	Based on SBT	K_σ applied:	No		

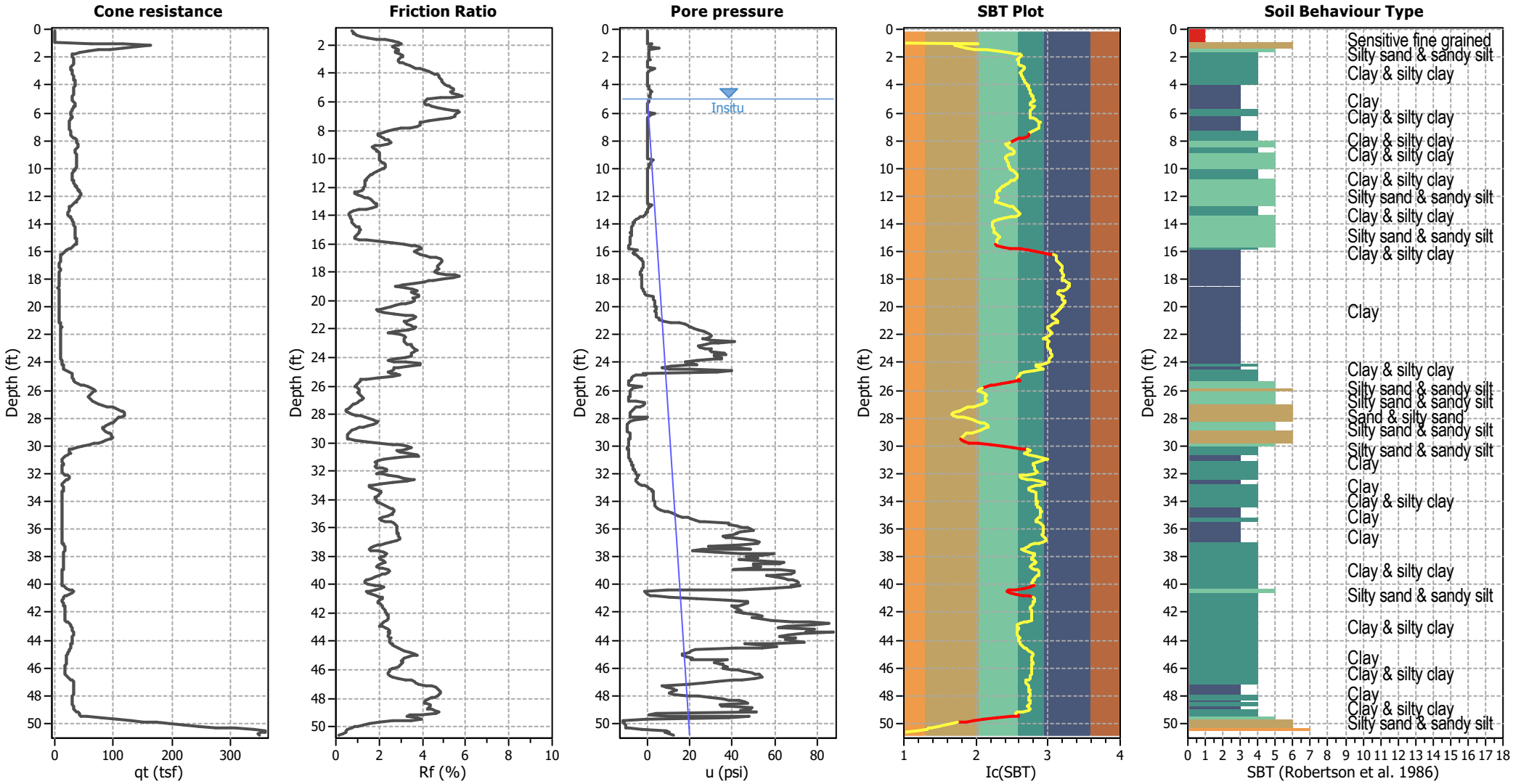






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
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Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



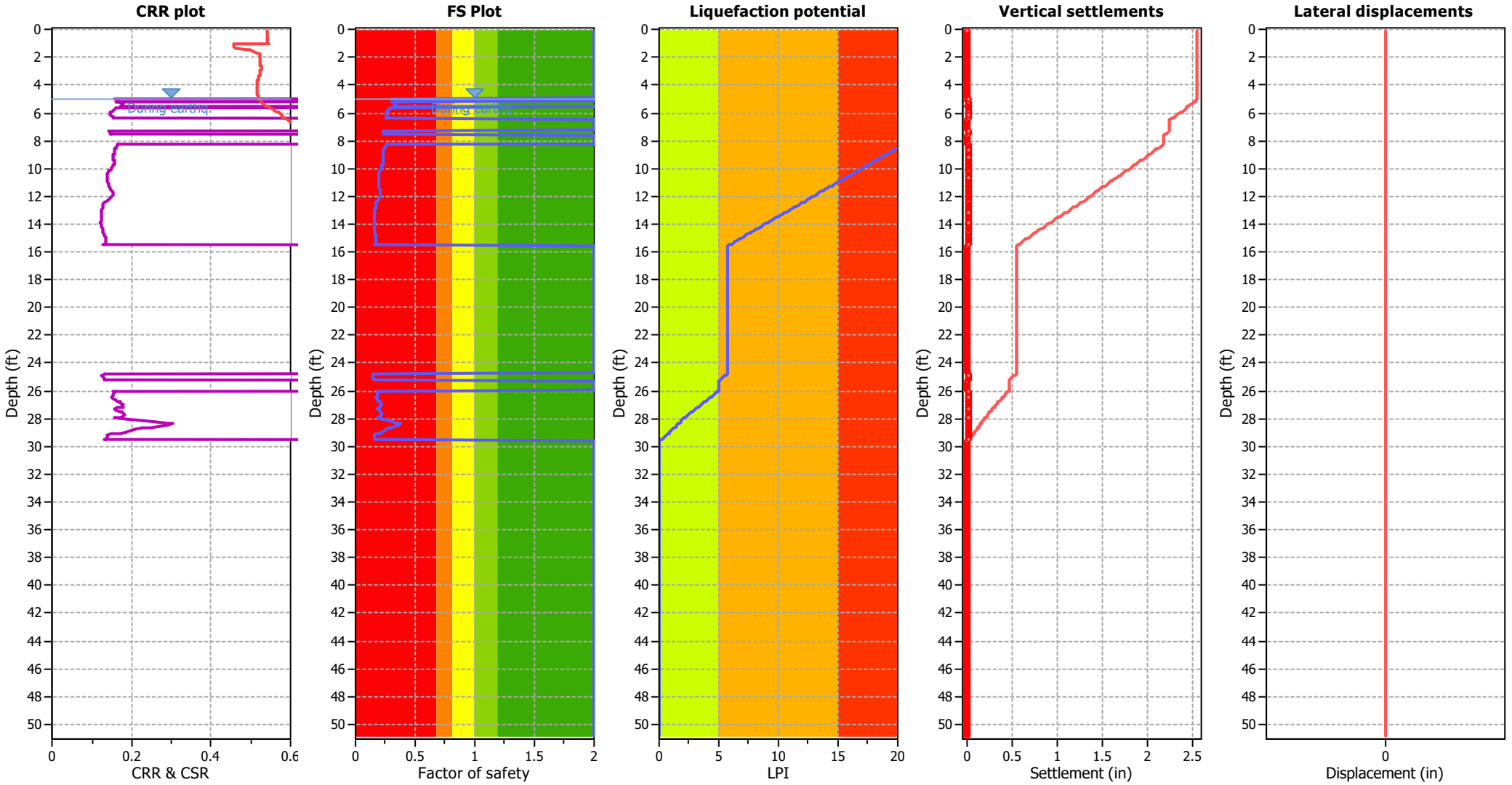
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

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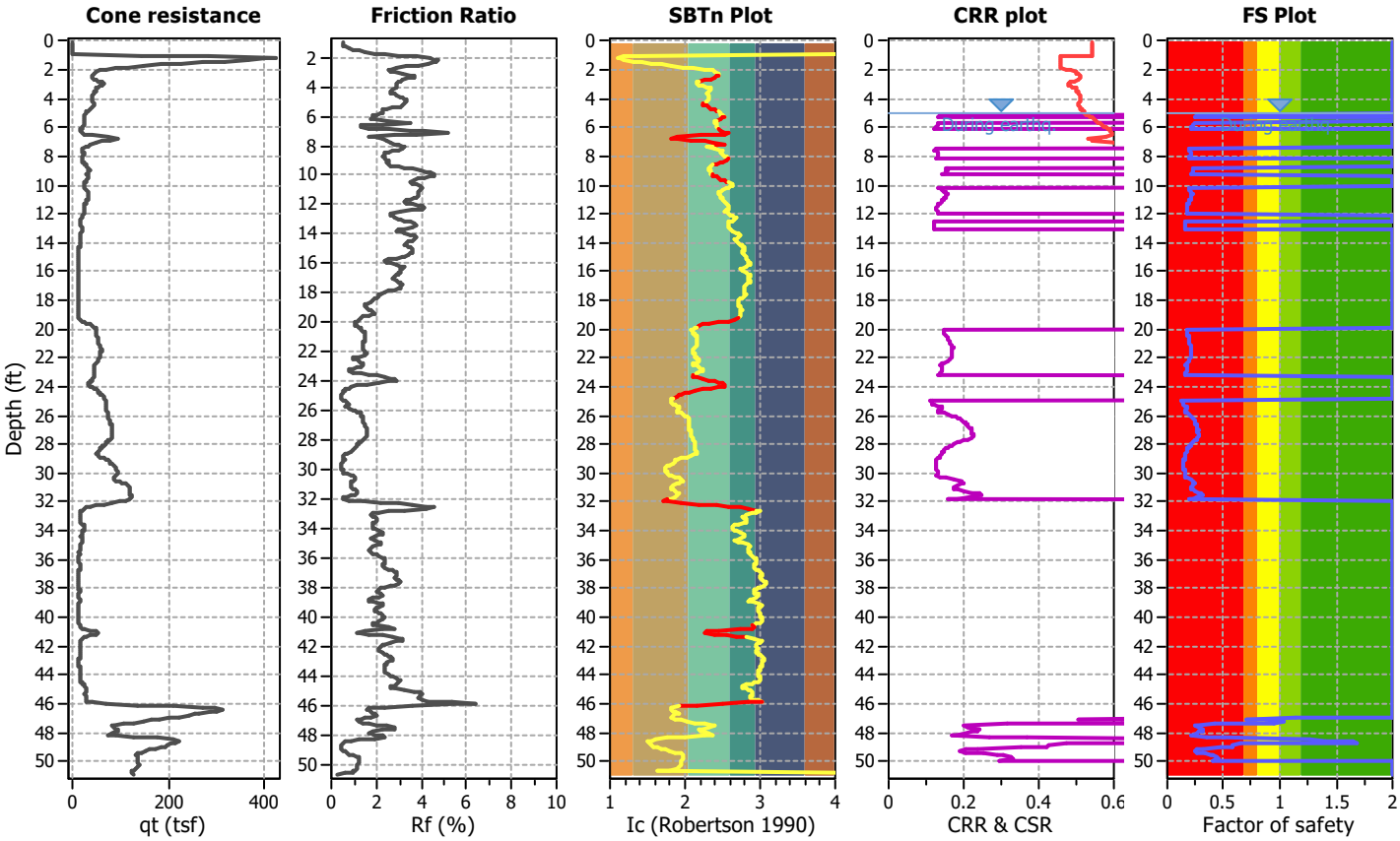
LIQUEFACTION ANALYSIS REPORT

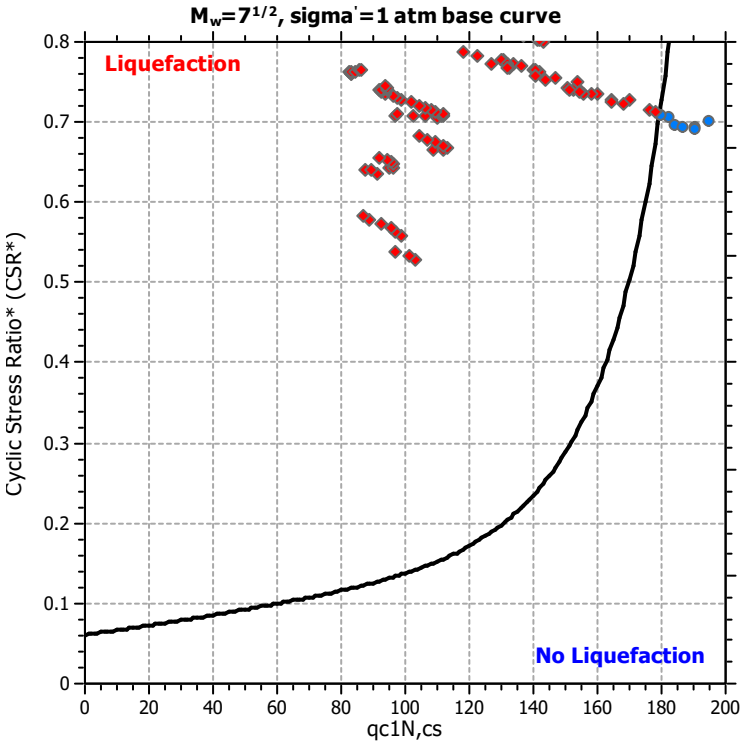
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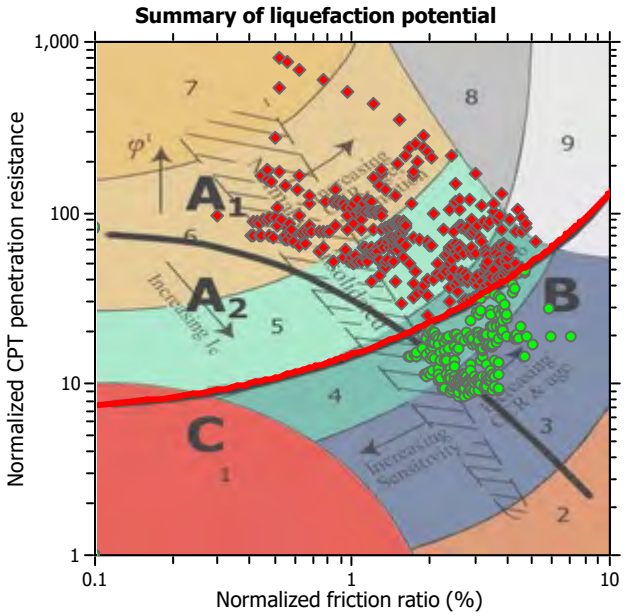
CPT file : 3-CPT7

Input parameters and analysis data

Analysis method:	B&I (2014)	G.W.T. (in-situ):	5.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	B&I (2014)	G.W.T. (earthq.):	5.00 ft	Fill height:	N/A	Limit depth applied:	Yes
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	50.00 ft
Earthquake magnitude M_w:	7.01	Ic cut-off value:	2.60	Trans. detect. applied:	Yes	MSF method:	Method based
Peak ground acceleration:	0.85	Unit weight calculation:	Based on SBT	K_σ applied:	No		

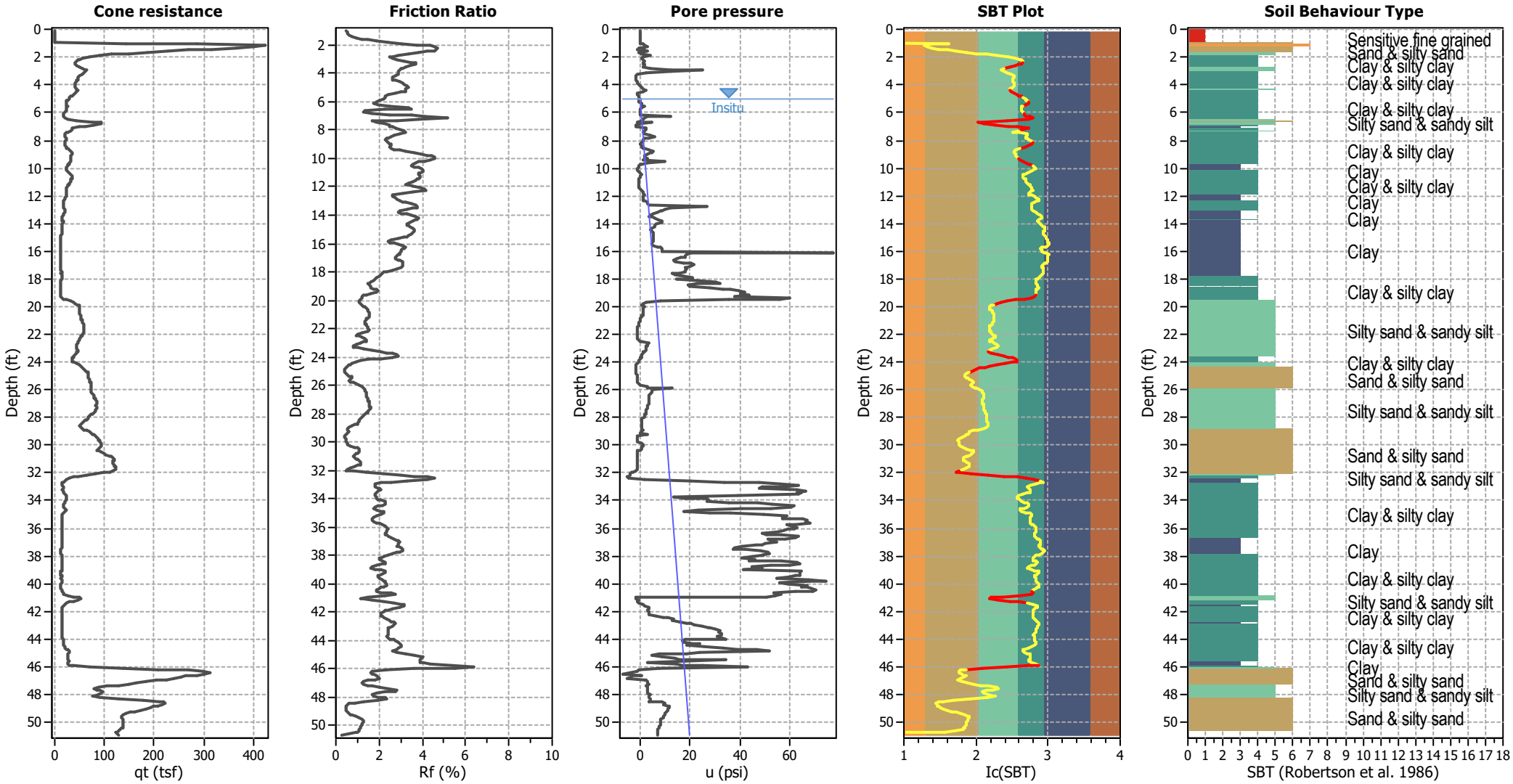






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



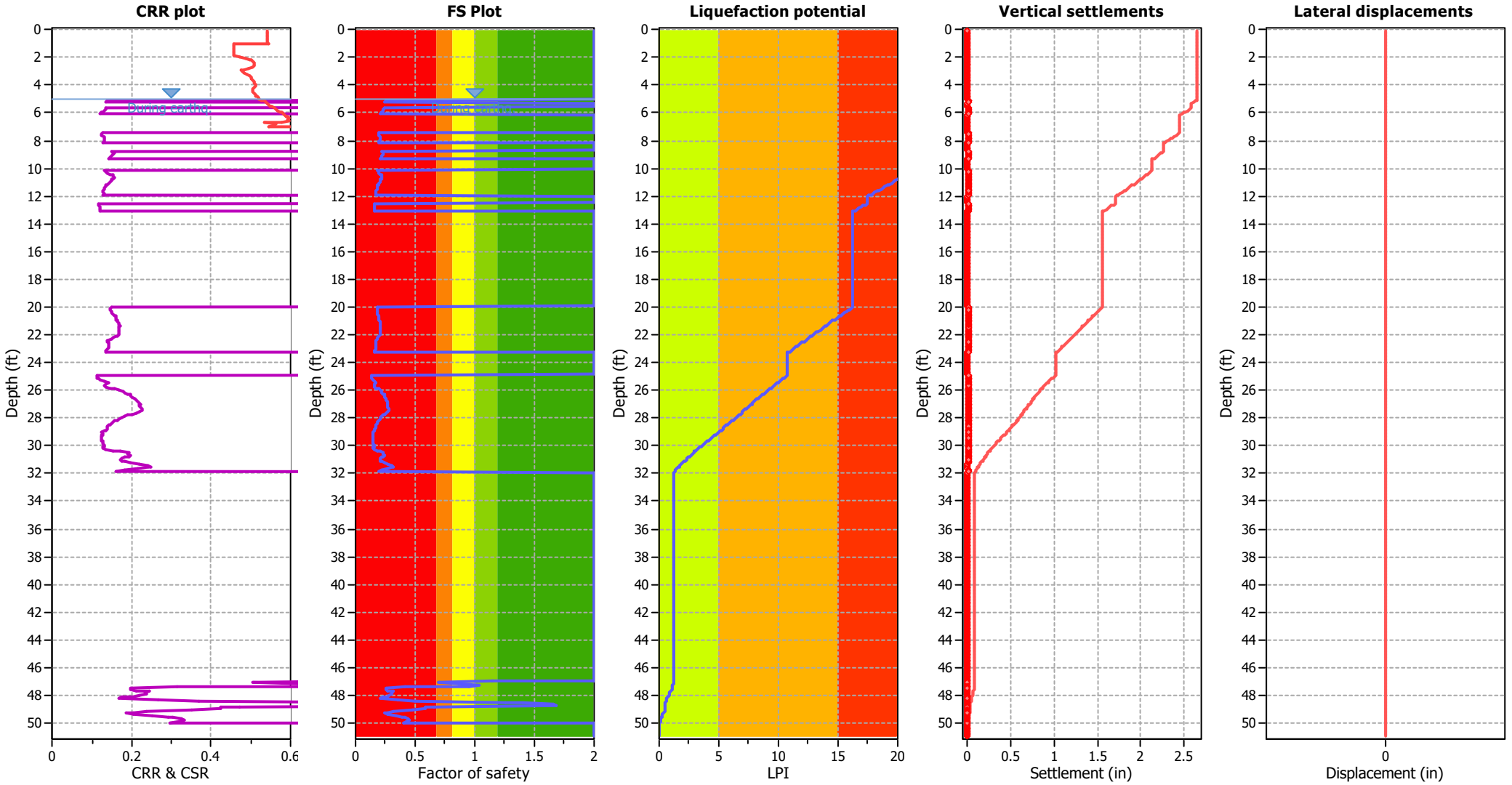
Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	B&I (2014)	Depth to GWT (erthq.):	5.00 ft	Fill weight:	N/A
Fines correction method:	B&I (2014)	Average results interval:	3	Transition detect. applied:	Yes
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	7.01	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.85	Use fill:	No	Limit depth applied:	Yes
Depth to water table (insitu):	5.00 ft	Fill height:	N/A	Limit depth:	50.00 ft

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

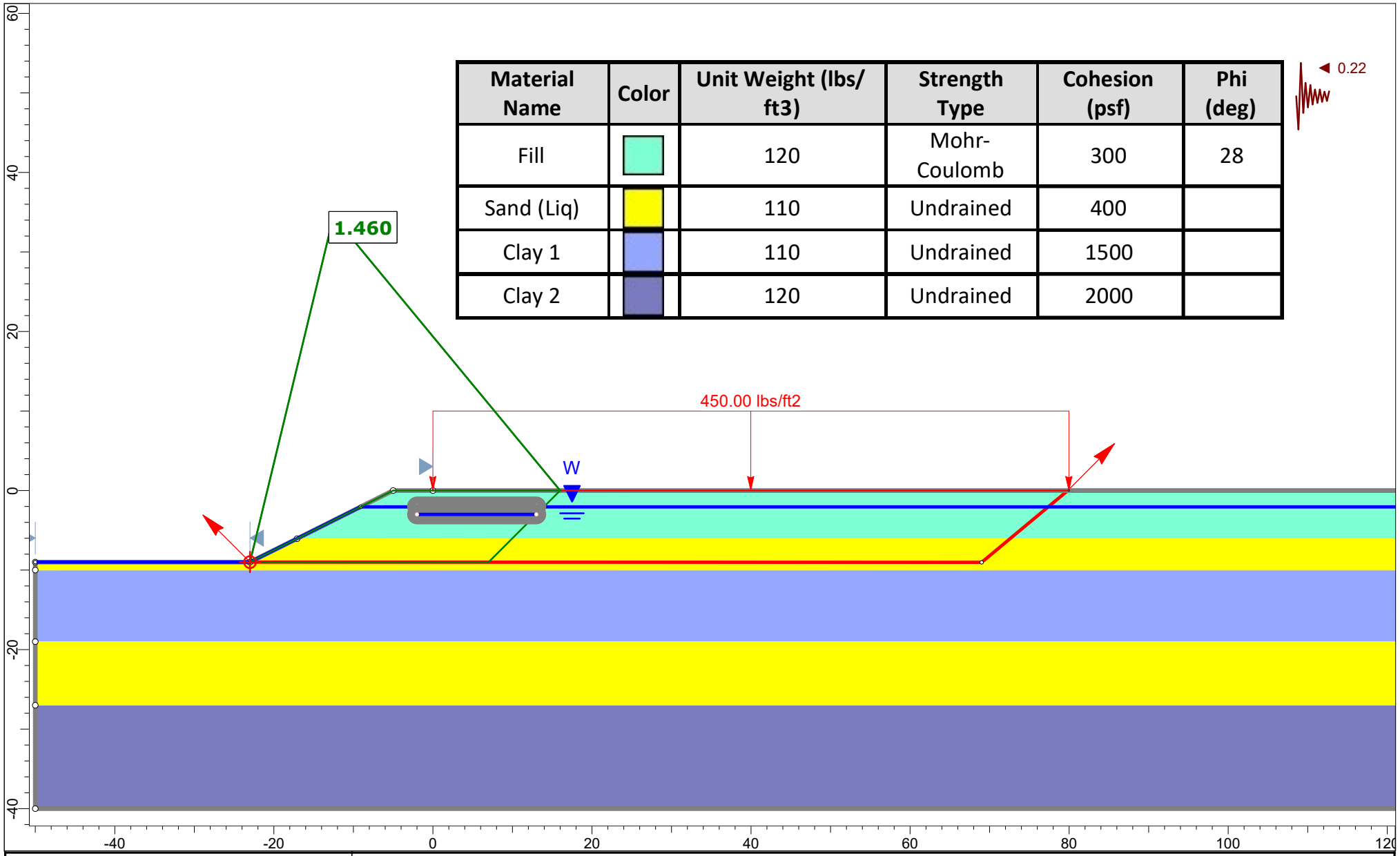
- Very high risk
- High risk
- Low risk



APPENDIX D

SLOPE STABILITY ANALYSES

Material Name	Color	Unit Weight (lbs/ ft3)	Strength Type	Cohesion (psf)	Phi (deg)
Fill		120	Mohr-Coulomb	300	28
Sand (Liq)		110	Undrained	400	
Clay 1		110	Undrained	1500	
Clay 2		120	Undrained	2000	

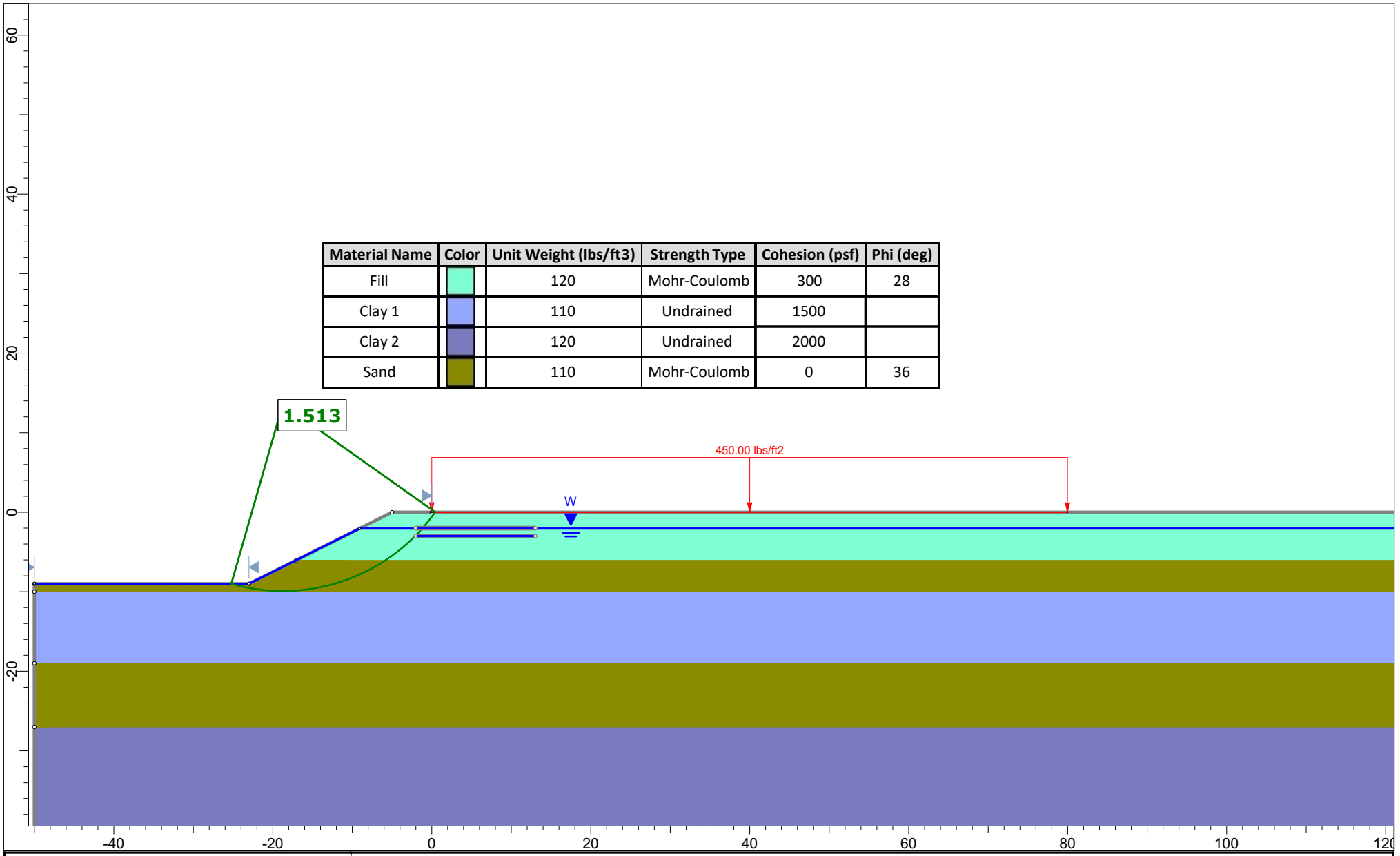


ENGEO Expect Excellence

SLIDEINTERPRET 9.020

Project	38600 Cedar Boulevard		
Scale	1:200	Scenario	Pseudostatic Conditions
Drawn By	Jerry Chen	Company	Waymark Development
Date	12/7/2022	File Name	Static.slmd

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)
Fill		120	Mohr-Coulomb	300	28
Clay 1		110	Undrained	1500	
Clay 2		120	Undrained	2000	
Sand		110	Mohr-Coulomb	0	36



ENGEO Expect Excellence

SLIDEINTERPRET 9.020

Project	38600 Cedar Boulevard		
Scale	1:200	Scenario	Static Conditions
Drawn By	Jerry Chen	Company	Waymark Development
Date	12/7/2022	File Name	Static.slmd



ENGEO
Expect Excellence

COTTON, SHIRES AND ASSOCIATES, INC.
CONSULTING ENGINEERS AND GEOLOGISTS

April 10, 2023
N6013

TO: Diana Cangco, PE
Senior City Engineer
CITY OF NEWARK
37101 Newark Boulevard
Newark, California 94560-3796

SUBJECT: **Geotechnical Peer Review**
RE: Cedar Townhomes (DR2022-011)
38600 Cedar Boulevard (APN 92A-2585-12-1, 92A-2585-31)
Newark, California

At your request, we have completed a geotechnical peer review of the application for site development using:

- ENGEO Geotechnical Exploration (report), 38600 Cedar Boulevard, dated January 31, 2023; and

- California Geologic Survey (CGS) Guidelines for Evaluating and Mitigating Seismic Hazards in California, Special Publication 117A, re-adopted September 11, 2008.

In addition, we have reviewed pertinent technical maps and reports from our office files.

DISCUSSION

The referenced Geotechnical Exploration report indicates that the existing 3.5-acre parcel is bordered by the Interstate 880 to the northeast, a light industrial building to the southeast, Cedar Boulevard to the Southwest, and a drainage channel and light industrial building to the northwest. A historic map of the area, indicates that a natural creek drainage used to flow across the northern corner of the parcel, and currently there is an improved drainage channel extending along the northwestern property line. We understand that the proposed development consists constructing 14 buildings with a total of 76 townhomes, and installing paved roadways and parking areas, and buried utilities. It appears that the residences will be built at-grade, without subterranean levels.

The purpose of this review is to determine whether the referenced January 31, 2023 Geotechnical Exploration report is consistent with State criteria for project approval with respect to seismic hazards. Our geotechnical peer review does not include construction plan review and is not intended to address all geotechnical aspects of proposed project design.

SITE CONDITIONS

The project is located within a liquefaction hazard zone as mapped by the California Geological Survey, but not in an earthquake-induced landslide hazard zone. The project site is also not located within a State designated Alquist Priolo/fault rupture zone. According to the State's Seismic Hazard Mapping Act, a qualifying project within the liquefaction hazard zone must be supported by a site-specific geotechnical investigation (report) addressing the mapped hazard.

The site is relatively level, and located 3.9 kilometers (2.4 miles) southwest of the closest mapped trace of the Hayward Fault; however, the Geotechnical Consultant indicates that the Hayward Fault is 3.7 miles from the site.

The Geotechnical Consultant (ENGEO) investigated the subsurface conditions at the site by means of six test pits excavated to depths of 5 to 11.5 feet, three borings drilled to depths of 25 to 115 feet, and 12 Cone Penetration Tests (CPTs) probed to depths of approximately 32 feet to 50 feet; however, only the seven CPT's performed in 2022 were included in the submitted report.

ENGEO encountered up to 8 feet of fill (potentially undocumented) overlying alluvial clays, silts, sands, and gravels, and groundwater depths of 5.1 feet to 16.0 feet below ground surface in their borings and CPT probes. Historic groundwater depths are mapped at about 10 feet below the ground surface.

GEOTECHNICAL EVALUATIONS

ENGEO concluded that the primary geotechnical hazards potentially impacting the proposed development include, the existing fill, high groundwater, slope stability along the northwestern property line, and liquefaction and resulting surficial settlement.

ENGEO prepared a figure (Figure 3) showing approximate fill thickness across the site, and recommended that all undocumented fill be removed and recompacted. We note

that ENGEO has not accounted for the fill placed in the historic creek channel crossing the northern corner of the site in their Figure 3, Fill Contour Map.

ENGEO completed liquefaction analysis on all 12 CPT's using a Mw =7.01, a PGA = 0.85g, a depth to groundwater of 5.0, and an Ic threshold of 2.6, and calculated a maximum total liquefaction-induced settlement of up to approximately 5 inches. ENGEO has delineated an area of higher liquefaction potential on Figure 2, and it is located towards the southern corner of the site. ENGEO also concluded that the potential for surface rupture associated with liquefaction was low due to the 5- to 10-foot cap thickness of non-liquefiable soils overlying the liquefiable layers across much of the site, except towards the eastern side (and possibly southern side) of the site, where sand boils are possible. We note that ENGEO has not recommended measures to mitigate the potential for sand boils and other surficial manifestations of liquefaction at this area.

ENGEO completed slope stability analysis using a residual strength (C=400 psf) for the near surface sand layer, a groundwater surface at a depth of 5 feet, and a seismic coefficient of 0.22 to analyze lateral spreading/slope failure into the drainage channel along the northern property line. ENGEO concluded that there is a Factor of Safety = 1.5 for a seismically induced landslide into the adjacent drainage channel. ENGEO's analysis included the installation of two layers of geogrid reinforcement below the buildings along the northwestern property line to provide additional stability to the slope. ENGEO concluded that with the addition of the two layers of 15-foot long geogrid along the western property line, the proposed 5.5-foot setback from the top of the slope is adequate, and the creek bank should remain stable under seismic ground shaking. We note that this is not a typical lateral spreading type analysis, and that a lateral spreading analysis may indicate more than the code allowable 18 inches of displacement.

ENGEO also encountered a thin compressible clay layer at about 35 feet below ground surface, and concluded that the effect of building loads on this clay layers is minimal.

The Geotechnical Consultant has recommended post-tensioned slab foundations to support the proposed residential structures and provided seismic design criteria in their referenced Seismic Hazard Analysis letter, in accordance with CBC 2022 and ASCE 7-16.

CONCLUSIONS AND RECOMMENDED ACTIONS

The proposed site development is constrained by potentially liquefiable soils with total liquefaction induced settlement estimated at up to 5 inches as calculated by the

Geotechnical Consultant, the potential for sand boils towards the eastern and southern sides of the site, underlying undocumented compressible fill, and the potential for lateral spreading into the existing drainage channel located along the northwestern property line. The Geotechnical Consultant has completed site subsurface exploration in general conformance with State requirements. We concur with the Geotechnical Consultant that there is a potential for liquefaction likely resulting in relatively moderate post seismic shaking settlement at the ground surface.

Prior to providing a conclusion as to whether the seismic hazard has been satisfactorily evaluated, we request that the Geotechnical Consultant provide specific clarifications to several concerns. We recommend the Project Geotechnical Consultant address the following items prior to geotechnical seismic hazard sign-off:

1. **Geotechnical Clarifications** – The Geotechnical Consultant should clarify the following four items:

   a) The Geotechnical Consultant should provide specific recommendations to mitigate the potential for surficial manifestation of liquefaction (sand boils, ejecta, loss of bearing, etc.) where they might occur (eastern and southern sides of the site).

   b) The Geotechnical Consultant should analyze the potential for and magnitude of lateral spreading using lateral spreading analysis. If calculated lateral spreading magnitudes exceed the code maximum of 18 inches, then either mitigation or deep foundations are typically recommended.

   c) The Geotechnical Consultant should show the historic creek alignment on their Figure 3, along with estimated fill thicknesses.

   d) The Geotechnical Consultant should complete and provide slope stability analysis evaluating and presenting results for both liquefiable sand layers and using similar search methods.

   e) The Geotechnical Consultant should complete and provide a seismic slope stability analysis using a residual strength for the liquefiable sand based on Idriss I.M., and Boulanger R.W., (2008, Page 129) which recommends that *"For example, if it is assumed that tan Φ'=0.6 for loose sands, then the S_r/σ_{vc} =0.05-0.12 obtained from most of these case histories are about 8-20% of the pre-earthquake drained strength (i.e. a strength loss of 80-92% because of liquefaction)."*

Clarifications addressing the above items should be organized by the Geotechnical Consultant in a letter-report submitted to the City for supplemental review by the City Geotechnical Consultant.

LIMITATIONS

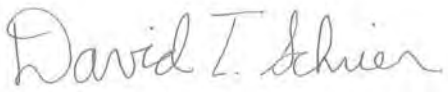
This geotechnical peer review has been performed to provide technical advice to assist the City with its discretionary permit decisions. Our services have been limited to an independent review the referenced geotechnical report to determine the adequacy of the liquefaction hazard evaluation and any associated mitigation measures. Our opinions and conclusions are made in accordance with generally accepted principles and practices of the geotechnical profession. This warranty is in lieu of all other warranties, either expressed or implied.

Respectfully submitted,

COTTON, SHIRES AND ASSOCIATES, INC.
CITY GEOTECHNICAL CONSULTANT



Samuel W. Nolan
Principal Geotechnical Engineer
GE3191



David T. Schrier
Principal Geotechnical Engineer
GE 2334

DTS:SWN

ENGEO
Expect Excellence

GEOTECHNICAL
ENVIRONMENTAL
WATER RESOURCES
CONSTRUCTION SERVICES
COASTAL/MARINE GEOTECHNICS

Project No.
15799.004.000

June 5, 2023

Mr. Caden Proctor
Waymark Development
2801 West Coast Highway, Suite 270
Newport Beach, CA 92663

Subject: 38600 Cedar Boulevard
Newark, California

RESPONSE TO GEOTECHNICAL REVIEW COMMENTS

References:
1. ENGEO. Geotechnical Exploration, 38600 Cedar Boulevard, Newark, California. January 31, 2023. Project No. 15799.004.000.
2. Cotton, Shires and Associates, Inc. Geotechnical Peer Review, Newark, California. April 10, 2023. Project DR2022-011.

Dear Mr. Proctor:

As requested, this letter provides our response(s) to geotechnical review comments by Cotton, Shires and Associates, Inc. (CSA) pursuant to their review of our geotechnical exploration report for the planned residential development at 38600 Cedar Boulevard in Newark, California. Our geotechnical report is contained in Reference 1, and the CSA review comments contained in Reference 2.

The planned development at the approximately 4-acre site will consist of 14 separate structures and parking areas, as well as site improvements (utilities, pavements, concrete flatwork, landscape, bioretention basin, and drainage). An Alameda County drainage channel is located along the western properly line of the project site. In Reference 1, ENGEO provided our geotechnical recommendations as Geotechnical Engineer-of-Record (GEOR) representing Cedar Blvd Townhomes, LLC for planned residential developments.

RESPONSE TO COMMENTS

The CSA comments are provided below in bold italics followed by our response(s).

CSA Comment 1: Provide specific recommendations to mitigate the potential for surficial manifestation of liquefaction (sand boils, ejecta, loss of bearing, etc.) where they might occur (eastern and southern sides of the site).

ENGEO Response to Comment 1: It is anticipated that remedial grading will be performed to mitigate risk of liquefaction and secondary ground deformation adversely impacting the planned development. This is anticipated to include overexcavation to remove all or a portion of the underlying loose susceptible soil deposits, restore grades with engineered fill, including possible inclusion or geogrid reinforcement if portions are to remain in place. Alternatively, other mitigation measures such as geopiers or ground improvement may be considered to densify loose susceptible layers.

To define areas susceptible to liquefaction, we performed densification analysis using methods from Idriss and Boulanger (2008). The peak ground acceleration of 0.85g was taken from the mapped seismic design parameters for the site (Table 3.7-1). The predominant earthquake magnitude value of 7.01M was chosen based on our deaggregation of the hazard at a spectral period of the peak ground acceleration for a 2475-year return period, and a design groundwater level of 9 feet below ground surface (bgs) is the assumed historic high level. Our densification analysis indicates that seismically induced settlements of up to 5½ inches may occur in the vicinity of Boring 2-B1. Considering the potential for liquefaction in Boring 2-B1, we performed an assessment for sand boils using methods by Youd and Garris (1995). The results indicate the layer of non-liquefiable cap above the liquefiable layer is marginal at approximately the southeastern corner of the site and surface manifestation of liquefaction is likely.

***CSA Comment 2:* Analyze the potential for and magnitude of lateral spreading using lateral spreading analysis. If calculated lateral spreading magnitudes exceed code maximum of 18 inches, then either mitigation or deep foundations are typically recommended.**

ENGEO Response to Comment 2: We utilized the methodology outlined by Youd, Hansen, and Bartlett (2002) to evaluate the potential for lateral spreading considering the open flood control channel located northwest of the site, assuming that the subgrade is not being reinforced by geogrid. We understand that the townhomes will be located 5½ feet away from the top of slope. Within this boundary, our borings encountered potentially liquefiable material in Boring 2-B2 at a depth of approximately 8 feet below ground surface approximately 5 feet in thickness.

Under an extreme seismic event, we compute a range of lateral displacement at the western site boundary could range from 3 to 13 inches (depending on relationship used in our analysis). However, it is important to note that the results of these lateral displacement analyses are considered indices of expected seismic performance and not predictions of actual slope displacements.

It is our experience that the risk of lateral spreading may be mitigated by removing the potential liquefiable material and completely replacing these with engineered fill; actual depth and lateral extent of the overexcavation and recompaction process would be determined during grading. Alternatively, the liquefiable layer may be disrupted with a trench of engineered fill along the western boundary of the site; the trench would be anticipated to extend a minimum of 15 feet below ground surface. The actual depth and lateral extent of the trench should be determined by ENGEO during grading.

***CSA Comment 3:* Show the historic creek alignment on Figure 3, along with estimated fill thicknesses.**

ENGEO Response to Comment 3: We have revised Figure 3 – Fill Contour to also include the historic creek alignment based on a topographic map from the United States Geological Survey (USGS) dated 1947. We have attached the updated figure to this letter.

***CSA Comment 4:* Complete and provide slope stability analysis evaluating and presenting results for both liquefiable sand layers and using similar search methods.**

ENGEO Response to Comment 4: We have included slope stability analysis results for both liquefiable sand layers as an attachment to this letter. We analyzed both layers using residual strengths based on Seed and Harder (1990) and Boulanger and Idriss (2008), as requested in Comment 5. The Boulanger and Idriss (2008) method provide a residual strength of the shallow

layer of approximately 80 psf and a residual strength of the deeper layer of approximately 200 psf. Utilizing the Boulanger and Idriss (2008) method for residual strength of the shallow liquefiable sand layer results in a factor of safety less than 1.0. Slope failure due to liquefaction of the shallow sand layer can be mitigated by installation of geotextile fabric directly beneath the buildings, localized ground improvement to densify the sand layer, or complete removal and replacement of the shallow liquefiable sand layer.

CSA Comment 5: ***Complete and provide seismic slope stability analysis using a residual strength for the liquefiable sand based on Idriss I.M, and Boulanger R.W., (2008, Page 129) which recommends that "For example, if it is assumed that tanϕ' =0.6 for loose sands, then S_r/σ_{vc} =0.05-0.12 obtained from most of these case histories are about 8-20% of the pre-earthquake drained strength (i.e., a strength loss of 80-92% because of liquefaction)."***

ENGEO Response to Comment 5: We performed a residual strength correlation using the Idriss and Boulanger (2008) method applied to the cone penetration test (CPT) data in the computer program, CLiq. The analysis results in a residual strength of the shallow layer of approximately 80 psf and a residual strength of the deeper layer of approximately 200 psf. The results of the slope stability analysis are presented as an attachment to this letter. Utilizing Boulanger and Idriss (2008) results in a factor of safety (FOS) of less than 1.0 when evaluating the shallow liquefiable layer under seismic conditions. While we believe the Boulanger and Idriss (2008) residual strength correlation to be highly conservative, we recognize that the true residual strength of the liquefied soil will likely fall somewhere between the residual strength provided by Seed and Harder (1990) and Boulanger and Idriss (2008).

The shallow, liquefiable sand layer is variable and discontinuous throughout the site. To mitigate potential liquefaction-induced settlement and reduce the possibility of liquefaction-induced slope failure, earthwork improvements may be required. Improvement measures could include installation of geotextile fabric directly beneath the building, localized ground improvement to densify the sand layer, or complete removal and replacement of the shallow liquefiable sand layer.

If you have any questions or comments regarding this letter, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated

Parson Galicia

Joshua Hoeflich

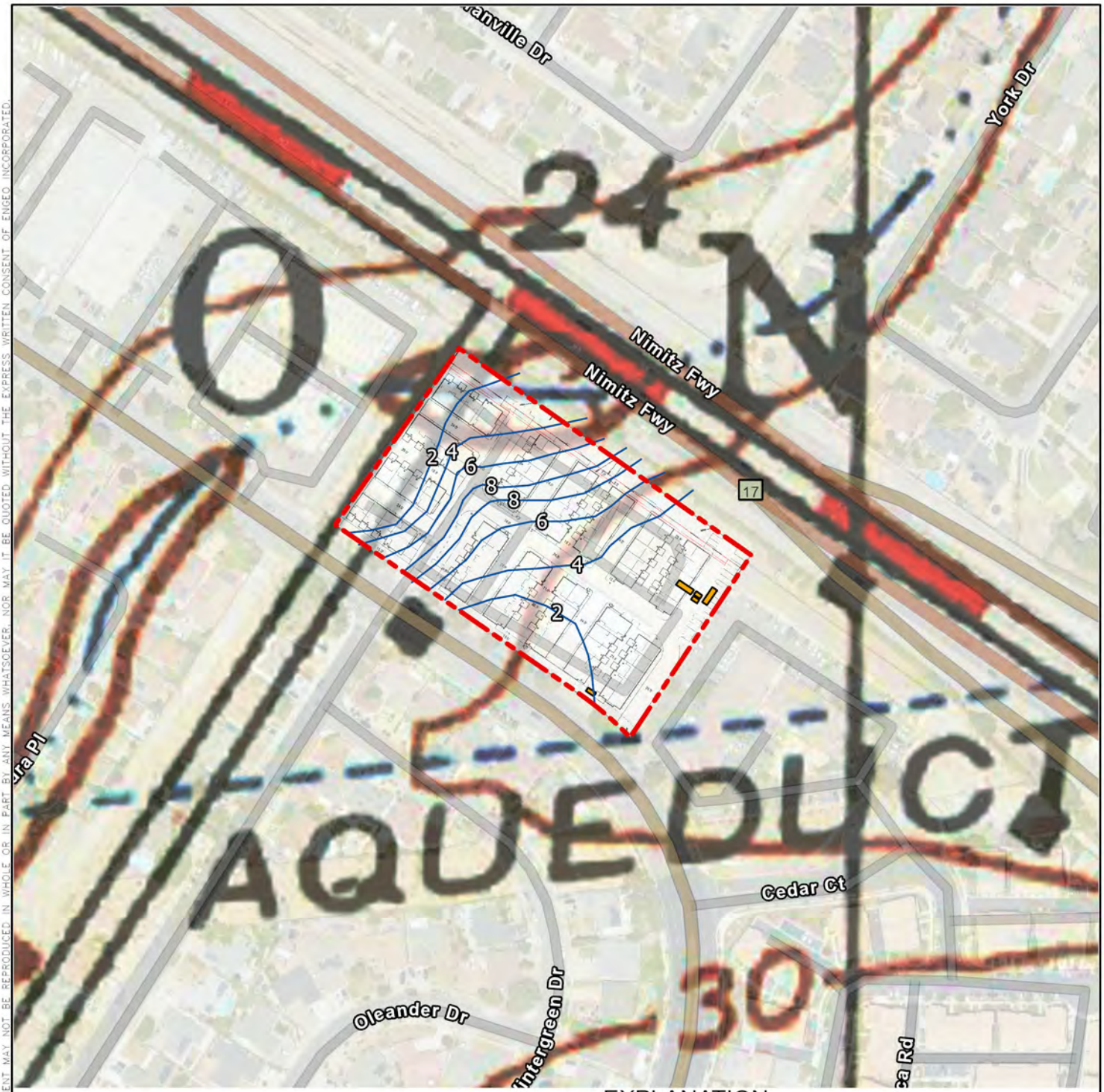
REGISTERED PROFESSIONAL ENGINEER
THEODORE P. BAYHAM
No. 2480
GEOTECHNICAL
STATE OF CALIFORNIA

Theodore Bayham, GE, CEG

pg/jh/tb/ar

Attachments: Revised Figure 3 – Fill Contour with Historic Creek Alignment
Slope Stability Analysis

REVISED FIGURE 3 – FILL CONTOUR WITH HISTORIC CREEK ALIGNMENT



EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- PROJECT SITE
- FORMER UNDERGROUND STORAGE TANK LOCATION
- ESTIMATED FILL CONTOUR

N

0 100 200

FEET

BASEMAP SOURCE: GOOGLE MAPPING SERVICE 2021, WHA 2022, AND USGS 1947

ENGEO Expect Excellence

FILL CONTOUR

38600 CEDAR BOULEVARD

NEWARK, CALIFORNIA

PROJECT NO. :	15799.004.000
SCALE:	AS SHOWN
DRAWN BY: NLK	CHECKED BY: MT

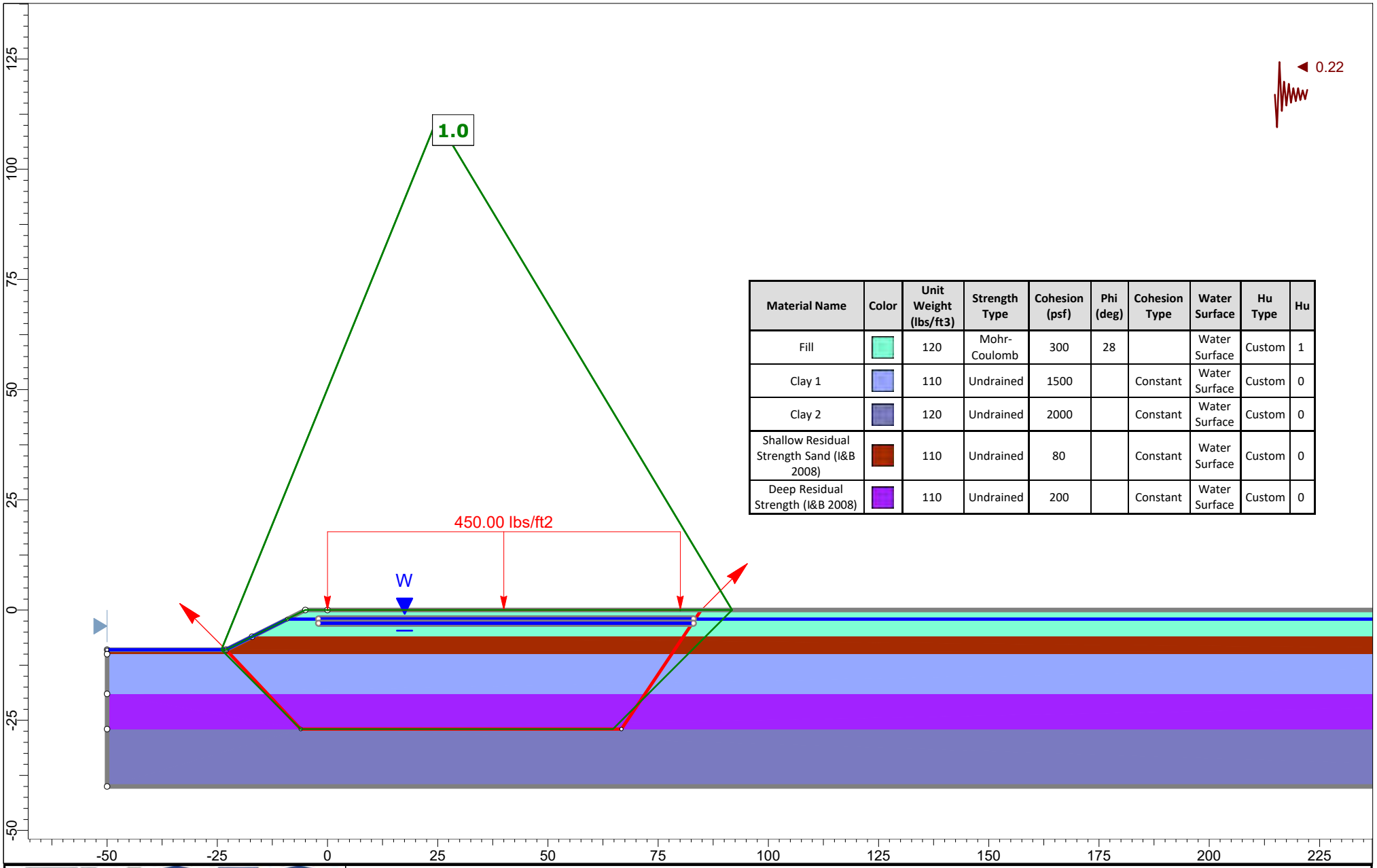
FIGURE NO. 3

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PATH: G:\DRAFTING\PROJECTS_14000 TO 15999\15799\15799001000\GEOTECH
LAYOUT: SITE PLAN USER: NLAMOTTEKERR

ORIGINAL FIGURE PRINTED IN COLOR

SLOPE STABILITY ANALYSIS

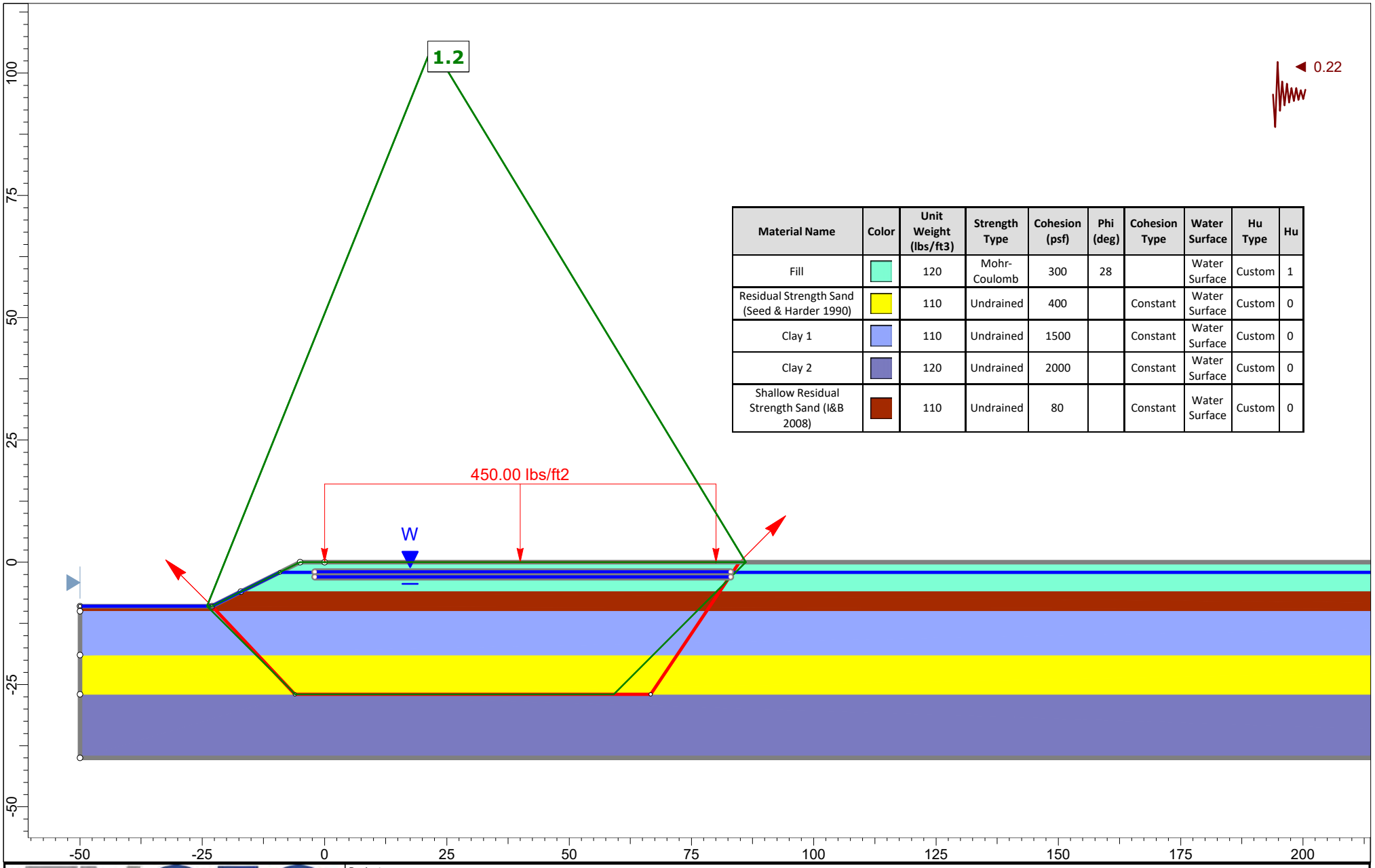


Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Cohesion Type	Water Surface	Hu Type	Hu
Fill		120	Mohr-Coulomb	300	28		Water Surface	Custom	1
Clay 1		110	Undrained	1500		Constant	Water Surface	Custom	0
Clay 2		120	Undrained	2000		Constant	Water Surface	Custom	0
Shallow Residual Strength Sand (I&B 2008)		110	Undrained	80		Constant	Water Surface	Custom	0
Deep Residual Strength (I&B 2008)		110	Undrained	200		Constant	Water Surface	Custom	0

ENGEO Expect Excellence

SLIDEINTERPRET 9.027

Project	Vista Verde Community Housing		
Scale 1:355	Author JHH	Project No. 15792.000.001	
Date 11/30/2022, 9:18:28 AM	Condition Deep - Boulanger and Idriss (2008)		

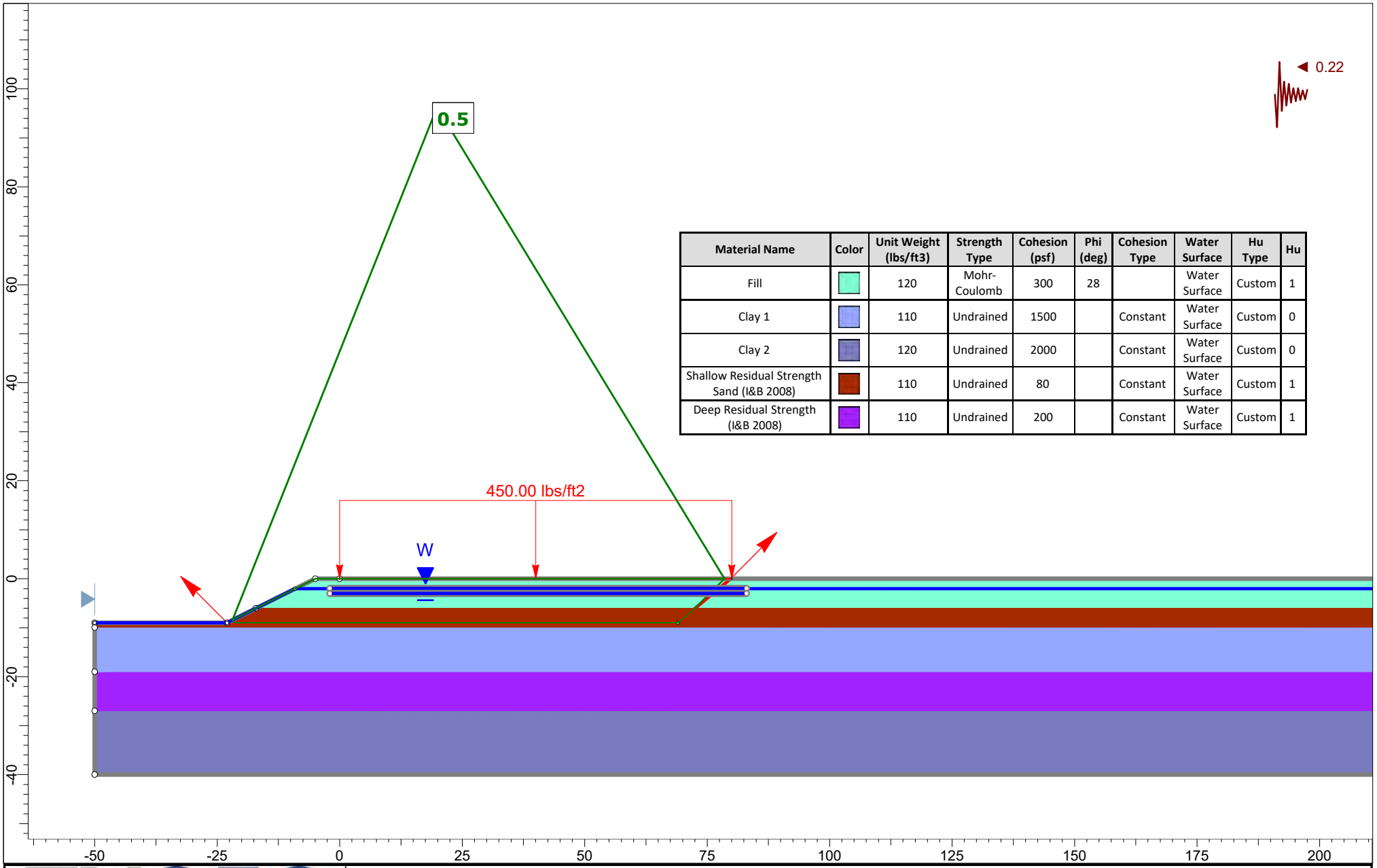


Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Cohesion Type	Water Surface	Hu Type	Hu
Fill		120	Mohr-Coulomb	300	28		Water Surface	Custom	1
Residual Strength Sand (Seed & Harder 1990)		110	Undrained	400		Constant	Water Surface	Custom	0
Clay 1		110	Undrained	1500		Constant	Water Surface	Custom	0
Clay 2		120	Undrained	2000		Constant	Water Surface	Custom	0
Shallow Residual Strength Sand (I&B 2008)		110	Undrained	80		Constant	Water Surface	Custom	0

ENGEO Expect Excellence

SLIDEINTERPRET 9.027

Project	Vista Verde Community Housing		
Scale 1:319	Author JHH	Project No. 15792.000.001	
Date 11/30/2022, 9:18:28 AM	Condition Deep- Harder and Seed (1990)		

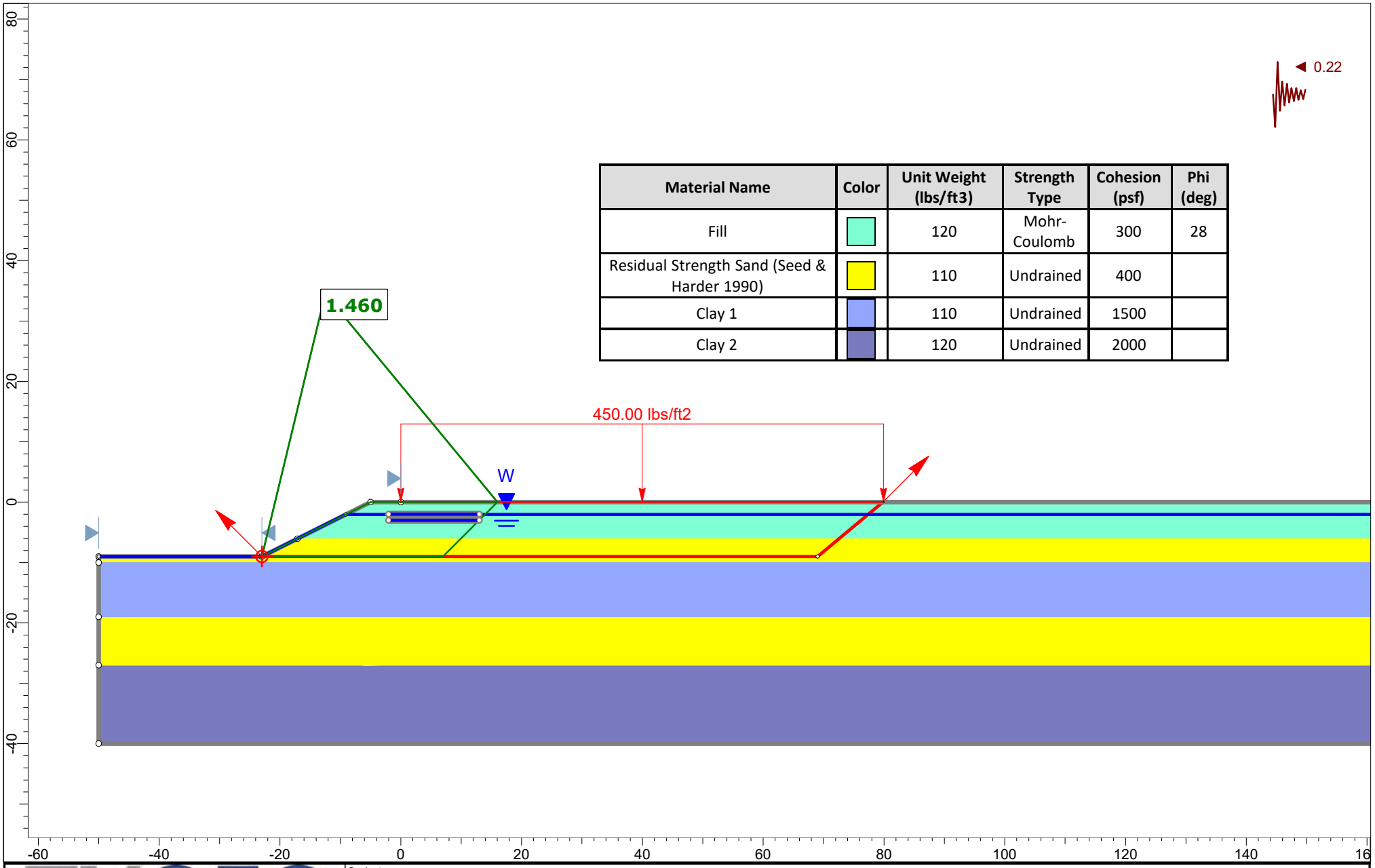


Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Cohesion Type	Water Surface	Hu Type	Hu
Fill		120	Mohr-Coulomb	300	28		Water Surface	Custom	1
Clay 1		110	Undrained	1500		Constant	Water Surface	Custom	0
Clay 2		120	Undrained	2000		Constant	Water Surface	Custom	0
Shallow Residual Strength Sand (I&B 2008)		110	Undrained	80		Constant	Water Surface	Custom	1
Deep Residual Strength (I&B 2008)		110	Undrained	200		Constant	Water Surface	Custom	1

ENGEO Expect Excellence

SLIDEINTERPRET 9.027

Project	Vista Verde Community Housing		
Scale 1:319	Author JHH	Project No. 15792.000.001	
Date 11/30/2022, 9:18:28 AM	Condition Shallow - Boulanger and Idriss (2008)		



Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)
Fill		120	Mohr-Coulomb	300	28
Residual Strength Sand (Seed & Harder 1990)		110	Undrained	400	
Clay 1		110	Undrained	1500	
Clay 2		120	Undrained	2000	

ENGEO Expect Excellence

SLIDEINTERPRET 9.027

Project	Vista Verde Community Housing		
Scale 1:259	Author JHH	Project No. 15792.000.001	
Date 11/30/2022, 9:18:28 AM	Condition Shallow - Harder and Seed (1990)		

COTTON, SHIRES AND ASSOCIATES, INC.
CONSULTING ENGINEERS AND GEOLOGISTS

June 14, 2023
N6013A

TO: Diana Cangco, PE
Senior City Engineer
CITY OF NEWARK
37101 Newark Boulevard
Newark, California 94560-3796

SUBJECT: **Supplemental Geotechnical Peer Review**
RE: Cedar Townhomes (DR2022-011)
38600 Cedar Boulevard (APN 92A-2585-12-1, 92A-2585-31)
Newark, California

At your request, we have completed a supplemental geotechnical peer review of the application for site development using:

- ENGEO Response to Geotechnical Review Comments (letter), 38600 Cedar Boulevard, dated June 5, 2023;
- ENGEO Geotechnical Exploration (report), 38600 Cedar Boulevard, dated January 31, 2023; and
- California Geologic Survey (CGS) Guidelines for Evaluating and Mitigating Seismic Hazards in California, Special Publication 117A, re-adopted September 11, 2008.

In addition, we have reviewed pertinent technical maps and reports from our office files.

DISCUSSION

The referenced Geotechnical Exploration report indicates that the existing 3.5-acre parcel is bordered by the Interstate 880 to the northeast, a light industrial building to the southeast, Cedar Boulevard to the Southwest, and a drainage channel and light industrial building to the northwest. A historic map of the area, indicates that a natural creek drainage used to flow across the northern corner of the parcel, and currently there is an improved drainage channel extending along the northwestern property line. We understand that the proposed development consists constructing 14 buildings with a total

of 76 townhomes, and installing paved roadways and parking areas, and buried utilities. It appears that the residences will be built at-grade, without subterranean levels.

The purpose of this supplemental peer review is to evaluate whether the referenced January 31, 2023 Geotechnical Exploration report and June 5, 2023 Response to Geotechnical Review Comments are consistent with State criteria for project approval with respect to seismic hazards. Our geotechnical peer review does not include construction plan review and is not intended to address all geotechnical aspects of proposed project design.

SITE CONDITIONS

The project is located within a liquefaction hazard zone as mapped by the California Geological Survey, but not in an earthquake-induced landslide hazard zone. The project site is also not located within a State designated Alquist Priolo/fault rupture zone. According to the State's Seismic Hazard Mapping Act, a qualifying project within the liquefaction hazard zone must be supported by a site-specific geotechnical investigation (report) addressing the mapped hazard.

The Geotechnical Consultant (ENGEO) investigated the subsurface conditions at the site by means of six test pits excavated to depths of 5 to 11.5 feet, three borings drilled to depths of 25 to 115 feet, and 12 Cone Penetration Tests (CPTs) probed to depths of approximately 32 feet to 50 feet; however, only the seven CPT's performed in 2022 were included in the submitted report.

ENGEO encountered up to 8 feet of fill (potentially undocumented) overlying alluvial clays, silts, sands, and gravels, and groundwater depths of 5.1 feet to 16.0 feet below ground surface in their borings and CPT probes. Historic groundwater depths are mapped at about 10 feet below the ground surface. We refer to our prior letter for a more detailed description of the site conditions.

RESPONSE TO PEER REVIEW COMMENTS

The Geotechnical Consultant (ENGEO) provided responses to five items listed in our Geotechnical Peer Review letter dated April 10, 2023, and are summarized below:

a) *"The Geotechnical Consultant should provide specific recommendations to mitigate the potential for surficial manifestation of liquefaction (sand boils, ejecta, loss of bearing, etc.) where they might occur (eastern and southern sides of the site)."*

ENGEO Response to Comment 1: It is anticipated that remedial grading will be performed to mitigate risk of liquefaction and secondary ground deformation adversely impacting the planned development. This is anticipated to include over excavation to remove all or a portion of the underlying loose susceptible soil deposits, restore grades with engineered fill, including possible inclusion or geogrid reinforcement if portions are to remain in place. Alternatively, other mitigation measures such as geopiers or ground improvement may be considered to densify loose susceptible layers.

To define areas susceptible to liquefaction, we performed densification analysis using methods from Idriss and Boulanger (2008). The peak ground acceleration of 0.85g was taken from the mapped seismic design parameters for the site (Table 3.7-1). The predominant earthquake magnitude value of 7.01M was chosen based on our deaggregation of the hazard at a spectral period of the peak ground acceleration for a 2475-year return period, and a design groundwater level of 9 feet below ground surface (bgs) is the assumed historic high level. Our densification analysis indicates that seismically induced settlements of up to 5½ inches may occur in the vicinity of Boring 2-B1. Considering the potential for liquefaction in Boring 2-B1, we performed an assessment for sand boils using methods by Youd and Garris (1995). The results indicate the layer of non-liquefiable cap above the liquefiable layer is marginal at approximately the southeastern corner of the site and surface manifestation of liquefaction is likely.

b) *"The Geotechnical Consultant should analyze the potential for and magnitude of lateral spreading using lateral spreading analysis. If calculated lateral spreading magnitudes exceed the code maximum of 18 inches, then either mitigation or deep foundations are typically recommended."*
ENGEO Response to Comment 2: We utilized the methodology outlined by Youd, Hansen, and Bartlett (2002) to evaluate the potential for lateral spreading considering the open flood control channel located northwest of the site, assuming that the subgrade is not being reinforced by geogrid. We understand that the townhomes will be located 5½ feet away from the top of slope. Within this boundary, our borings encountered potentially liquefiable material in Boring 2-B2 at a depth of approximately 8 feet below ground surface approximately 5 feet in thickness.
Under an extreme seismic event, we compute a range of lateral displacement at the western site boundary could range from 3 to 13 inches (depending on relationship used in our analysis). However, it is important to note that the results of these lateral displacement analyses are considered indices of expected seismic performance and not predictions of actual slope displacements.

It is our experience that the risk of lateral spreading may be mitigated by removing the potential liquefiable material and completely replacing these with engineered fill; actual depth and lateral extent of the overexcavation and recompaction process would be determined during grading. Alternatively, the liquefiable layer may be disrupted with a trench of engineered fill along the western boundary of the site; the trench would be anticipated to extend a minimum of 15 feet below ground surface. The actual depth and lateral extent of the trench should be determined by ENGEO during grading.

c) *"The Geotechnical Consultant should show the historic creek alignment on their Figure 3, along with estimated fill thicknesses."*
ENGEO Response to Comment 3: We have revised Figure 3 – Fill Contour to also include the historic creek alignment based on a topographic map from the United States Geological Survey (USGS) dated 1947. We have attached the updated figure to this letter.

d) *"Complete and provide slope stability analysis evaluating and presenting results for both liquefiable sand layers and using similar search methods."*
ENGEO Response to Comment 4: We have included slope stability analysis results for both liquefiable sand layers as an attachment to this letter. We analyzed both layers using residual strengths based on Seed and Harder (1990) and Boulanger and Idriss (2008), as requested in Comment 5. The Boulanger and Idriss (2008) method provide a residual strength of the shallow layer of approximately 80 psf and a residual strength of the deeper layer of approximately 200 psf. Utilizing the Boulanger and Idriss (2008) method for residual strength of the shallow liquefiable sand layer results in a factor of safety less than 1.0. Slope failure due to liquefaction of the shallow sand layer can be mitigated by installation of geotextile fabric directly beneath the buildings, localized ground improvement to densify the sand layer, or complete removal and replacement of the shallow liquefiable sand layer.

e) *"The Geotechnical Consultant should complete and provide a seismic slope stability analysis using a residual strength for the liquefiable sand based on Idriss I.M., and Boulanger R.W., (2008, Page 129) which recommends that "For example, if it is assumed that* $\tan\Phi'=0.6$ *for loose sands, then the* $Sr/\sigma_{vc}=0.05\text{-}0.12$ *obtained from most of these case histories are about 8-20% of the pre-earthquake drained strength (i.e. a strength loss of 80-92% because of liquefaction)."*
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are presented as an attachment to this letter. Utilizing Boulanger and Idriss (2008) results in a factor of safety (FOS) of less than 1.0 when evaluating the shallow liquefiable layer under seismic conditions. While we believe the Boulanger and Idriss (2008) residual strength correlation to be highly conservative, we recognize that the true residual strength of the liquefied soil will likely fall somewhere between the residual strength provided by Seed and Harder (1990) and Boulanger and Idriss (2008). The shallow, liquefiable sand layer is variable and discontinuous throughout the site. To mitigate potential liquefaction-induced settlement and reduce the possibility of liquefaction-induced slope failure, earthwork improvements may be required. Improvement measures could include installation of geotextile fabric directly beneath the building, localized ground improvement to densify the sand layer, or complete removal and replacement of the shallow liquefiable sand layer.

CONCLUSIONS AND RECOMMENDED ACTIONS

The proposed site development is constrained by potentially liquefiable soils with total liquefaction induced settlement estimated at up to 5 inches as calculated by the Geotechnical Consultant, the potential for sand boils towards the eastern and southern sides of the site, underlying undocumented compressible fill, and the potential for lateral spreading into the existing drainage channel located along the northwestern property line. The Geotechnical Consultant has completed site subsurface exploration in general conformance with State requirements. We concur with the Geotechnical Consultant that there is a potential for liquefaction likely resulting in relatively moderate post seismic shaking settlement at the ground surface.

The Geotechnical Consultant provided responses to the five items we requested Geotechnical Clarifications. Based on our review of their responses, it appears that the Geotechnical Consultant provided various conceptual mitigation alternatives that are typically recommended to mitigate surficial manifestation of liquefaction, lateral spreading, and liquefaction induced slope instability.

The Response to Geotechnical Review Comments letter prepared by the Geotechnical Consultant has not addressed our prior request for clarification pertaining to potential seismic hazards impacting the proposed project. Consequently, we have reiterated and paraphrased three of remaining items that the Geotechnical Consultant should provide specific recommendations, including, but not limited to the recommended mitigation method, depth range of mitigation (shown on a cross section), and extent of mitigation (shown on a map). If ground improvement is recommended include performance testing requirements, minimum acceptable performance, and supplemental mitigation if performance testing fails. Mitigation should be recommended where sand

boils/loss of bearing material is a potential, where excessive lateral spreading is calculated and where liquefaction induced slope instability is calculated with a Factor of Safety of less than 1.0.

Prior to providing a conclusion as to whether the seismic hazard has been satisfactorily evaluated and suitable mitigation recommendations provided, we request that the Geotechnical Consultant develop and provide specific recommendation clarifications to three remaining items prior to recommended geotechnical seismic hazard sign-off:

1. **Geotechnical Clarifications** – The Geotechnical Consultant should provide specific recommendations to mitigate the identified seismic hazards discussed in the following three items:

   a) The Geotechnical Consultant should provide specific recommendations to mitigate the potential for surficial manifestation of liquefaction (sand boils, ejecta, loss of bearing, etc.) where they might occur (eastern and southern sides of the site). In addition to the recommended method, the Geotechnical Consultant should include, but not limited to, depth range of mitigation (shown on a cross section), and extent of mitigation (show on a map).

   b) The Geotechnical Consultant should provide specific recommendations to mitigate the potential for lateral spreading. In addition to the recommended method, the Geotechnical Consultant should include, but not limited to, depth range of mitigation (show on a cross section), and extent of mitigation (show on a map).

   c) Based on the provided results of the Geotechnical Consultants seismic slope stability analysis, it appears that the calculated factor of safety is at or less than 1.0 if the underlying sand layer(s) are assumed to liquefy and decreased to residual shear strength. Consequently, The Geotechnical Consultant should provide specific recommendations to mitigate the potential liquefaction induced slope instability. In addition to the recommended method, the Geotechnical Consultant should include, but not limited to, depth range of mitigation (shown on a cross section), and extent of mitigation (shown on a map). The Geotechnical Consultant should provide seismic slope stability analysis implementing the

recommended mitigation alternatives and show the mitigated seismic factor of safety is equal to or greater than 1.0.

Clarifications addressing the above items should be organized by the Geotechnical Consultant in a letter-report submitted to the City for supplemental review by the City Geotechnical Consultant.

LIMITATIONS

This supplemental geotechnical peer review has been performed to provide technical advice to assist the City with its discretionary permit decisions. Our services have been limited to an independent review the referenced geotechnical report to determine the adequacy of the liquefaction hazard evaluation and any associated mitigation measures. Our opinions and conclusions are made in accordance with generally accepted principles and practices of the geotechnical profession. This warranty is in lieu of all other warranties, either expressed or implied.

Respectfully submitted,

COTTON, SHIRES AND ASSOCIATES, INC.
CITY GEOTECHNICAL CONSULTANT

Samuel W. Nolan
Principal Geotechnical Engineer
GE3191

David T. Schrier
Principal Geotechnical Engineer
GE 2334

DTS:SWN



APPENDIX D-1

38600 CEDAR BOULEVARD & 3863 TIMBER STREET
NEWARK, CALIFORNIA

PHASE I ENVIRONMENTAL SITE ASSESSMENT

SUBMITTED TO
Ms. Susan Wilson
Resmark Equity Partners, LLC
12396 World Trade Drive, Suite 308
San Diego, CA 92128

PREPARED BY
ENGEO Incorporated

May 13, 2022

PROJECT NO.
15799.003.000

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ENGEO
Expect Excellence

Project No.
15799.003.000

May 13, 2022

Ms. Susan Wilson
Resmark Equity Partners, LLC
12396 World Trade Drive, Suite 308
San Diego, CA 92128

Subject: 38600 Cedar Boulevard and 38683 Timber Street
Newark, California

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Dear Ms. Wilson:

ENGEO is pleased to present our phase I environmental site assessment of the subject property (Property), located in Newark, California. The attached report includes a description of the site assessment activities, along with ENGEO's findings, opinions, and conclusions regarding the Property.

ENGEO has the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the Property, and has developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312 and the American Society for Testing and Materials (ASTM) Practice E1527-21. We declare that, to the best of our professional knowledge and belief, the responsible charge for this study meets the definition of Environmental Professional as defined in Section 312.10 of 40 CFR Part 312 and ASTM E1527-21.

We are pleased to be of service to you on this project. If you have any questions concerning the contents of our report, please contact us.

Sincerely,

ENGEO Incorporated

Jenna Keith
Staff Engineer

Shawn Munger, CHG
Principal

jk/sm/cjn

TABLE OF CONTENTS

LETTER OF TRANSMITTAL
EXECUTIVE SUMMARY 1
1.0 INTRODUCTION 5
1.1 PURPOSE OF PHASE I ENVIRONMENTAL SITE ASSESSMENT 5
1.2 DETAILED SCOPE OF SERVICES 5
1.3 SITE LOCATION AND DESCRIPTION 5
1.4 CURRENT USE OF PROPERTY AND ADJOINING PROPERTIES 5
1.5 SITE AND VICINITY CHARACTERISTICS 6
1.6 INDOOR AIR QUALITY 6
2.0 SITE HISTORY AND PREVIOUS ENVIRONMENTAL REPORTS 7
3.0 RECORDS REVIEW 14
3.1 PROPERTY RECORDS 14
3.1.1 Title Report/Ownership 14
3.1.2 Environmental Liens and Activity Use Limitations 15
3.2 HISTORICAL RECORD SOURCES 15
3.2.1 Historical Topographic Maps/Aerial Photographs/Sanborn Maps 15
3.2.2 City Directory 16
3.3 ENVIRONMENTAL RECORD SOURCES 16
3.3.1 Environmental Records 16
3.3.1.1 Property 16
3.3.1.2 Other Properties 17
3.4 REGULATORY AGENCY FILES AND RECORDS 19
4.0 SITE RECONNAISSANCE 21
4.1 METHODOLOGY 21
4.2 GENERAL SITE SETTING 21
4.3 EXTERIOR OBSERVATIONS 21
4.4 INTERIOR OBSERVATIONS 23
4.5 ASBESTOS, LEAD, AND PCB-CONTAINING MATERIALS 24
5.0 INTERVIEWS 24
6.0 FINDINGS AND OPINIONS 24
6.1 SIGNIFICANT DATA GAPS 26
6.2 SIGNIFICANT ASSUMPTIONS OR DEVIATIONS FROM ASTM STANDARD PRACTICE 26
7.0 CONCLUSIONS 27
8.0 LIMITATIONS 27
8.1 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT 27
8.2 SPECIAL TERMS AND CONDITIONS 27
SELECTED REFERENCES

TABLE OF CONTENTS (Continued)

FIGURES

APPENDIX A – Environmental Data Resources, Inc., Radius Map Report

APPENDIX B – First American Title Company, Preliminary Title Report

APPENDIX C –Environmental Data Resources, Inc., Historical Topographic Map Report

APPENDIX D – Environmental Data Resources, Inc., Aerial Photo Decade Package

APPENDIX E – Environmental Data Resources, Inc., Sanborn Map Report

APPENDIX F – Environmental Data Resources, Inc., City Directory

APPENDIX G – Environmental Site Assessment Questionnaires (2)

APPENDIX H – Qualifications of Environmental Professional

EXECUTIVE SUMMARY

ENGEO conducted a phase I environmental site assessment for the property located at 38600 Cedar Boulevard and 38683 Timber Street in Newark, California (Property). The Property is approximately 3.45 acres in area and is identified by Assessor's Parcel Numbers (APNs) 92A-2585-12-1 and 92A-2585-31.

The Property consists of a construction and forestry equipment rental business. Review of historical records indicates that the Property was used for dry farming until the early 1960s when the eastern warehouse and office were constructed. Since that time, the Property has been occupied by various construction and agricultural equipment rental, sales, and/or repair businesses. The first known tenant was International Harvester Company. Horton Equipment Company (Empire) began leasing the site in the 1970s. Nortrax began leasing the Property in 2001. Papé Machinery, the current tenant, has leased the Property since 2005 and currently operates a construction and forestry equipment rental facility.

This assessment included a review of local, state, tribal, and federal environmental record sources, standard historical sources, aerial photographs, fire insurance maps, and physical setting sources. A reconnaissance of the Property was completed to review site use and current conditions to check for the storage, use, production, or disposal of hazardous or potentially hazardous materials and to conduct written/oral interviews with persons knowledgeable about current and past site use.

The site reconnaissance, records review, and review of regulatory databases maintained by county, state, tribal, and federal agencies have revealed evidence of soil, groundwater, and soil gas impacts at the Property in connection with former leaking underground storage tanks and hazardous materials handling. Regional Water Quality Control Board (RWQCB) GeoTracker cleanup case T0600100516 (under the name Nortrax West) is the open cleanup case (as of September 1992) pertaining to the Property.

Five underground storage tanks were formerly located at the Property. One 10,000-gallon diesel underground storage tank (UST), one 10,000-gallon gasoline UST, and two 500- or 550-gallon diesel USTs were formerly located in the eastern area of the 38683 Timber Street parcel. A former 500- or 550-gallon waste oil tank was located in the southern area of the parcel, south of the building, near Cedar Boulevard. An additional 500- or 550-gallon diesel UST was discovered in 1989. Four groundwater monitoring wells (MW-1 through MW-4) were first installed in the vicinity of the four known fuel USTs in 1986. All five USTs were removed in 1989. Groundwater monitoring was conducted following installation of the monitoring wells and after the tanks were removed and indicated that the USTs had impacted the underlying soil and/or groundwater with the following main contaminants.

- TPH-g, TPH-d, and TPH-mo
- Benzene
- 1,1-DCE
- Cis-1,2-DCE
- 1,1-DCA
- Methylene Chloride
- TCE
- 1,1,1-TCA
- PCE
- Carbon Tetrachloride

Groundwater monitoring has been conducted quarterly or semi-annually during most years since removal of the tanks. The fuel USTs were generally associated with total petroleum hydrocarbon contamination in groundwater while the waste oil tank was generally associated with total petroleum hydrocarbon and volatile organic compound contamination in groundwater. In soil, TPH and VOC impacts have been sporadically detected, and minor heavy metal impacts to soil have also been noted.

Several recent soil, groundwater, and soil gas investigations have been conducted to provide additional characterization and address impediments to case closure. Soil sampling results, including those from ENGEO's August 2020 phase II investigation, have shown decreasing concentrations of TPH and VOCs, particularly near the former fuel USTs. Groundwater impacts appear to be localized to the immediate vicinity of the former tanks and continue to attenuate based on historical monitoring events.

Though soil and groundwater impacts appear to have attenuated and are unlikely to continue to contribute as a vapor intrusion source, soil gas concentrations at the Property remain elevated. PCE concentrations were significantly in exceedance of the RWQCB Environmental Screening Level (ESL) for all, but one of 13 soil gas sample points assessed in ENGEO's August 2020 investigation. Soil gas impacts appear to be the most concentrated in the vicinity of the former waste oil UST, though there is currently limited control on the extent of the PCE soil vapor plume, based on the data. Additional soil gas characterization has been recommended to determine the extent of the chlorinated solvent vapor plume.

In a September 2021 letter to the current property owner, the Alameda County Water District (ACWD) requested that an additional soil vapor investigation be conducted. ACWD cited the soil gas results of ENGEO's previous phase II investigation, noting that the elevated VOC concentrations may pose a risk to human health. ACWD noted that the extent of VOC contamination in soil vapor should be defined on site and off site, and any potential vapor intrusion to indoor air pathways should be evaluated. Depending on the results of the investigation, a Corrective Action Plan to remediate and/or mitigate the soil vapor impact may be required. ENGEO submitted a workplan for additional soil gas investigation in March 2022 to address the additional soil gas sampling. The investigation has not been completed to date.

During the site reconnaissance, the following hazardous materials, petroleum-containing products, and other features of potential environmental concern were identified.

- Two active concrete above-ground storage tanks (ASTs) which contained diesel and used waste oil.
- Uncovered and covered drums throughout the Property used to store cleaning solutions, hydraulic oil, antifreeze, waste gasoline, waste diesel, used antifreeze, used absorbent materials, used coolant, used solvents, used diesel, and other waste or unknown materials.
- Large quantities of small quantity (5 gallons or less) chemicals mainly including engine coolant, hydraulic oil, engine oil, transmission oil, compression oil, and gear lubricant.
- Small spray cans and other containers (1 gallon or less) of various lubricants and cleaners.
- Four empty ASTs that formerly contained hydraulic fluid, SAE 10W-30 engine oil, hydraulic tractor fluid, and SAE 15W-40 engine oil.
- A 270-gallon tote of FlocClear 2% BioPolymer is used to manage settlement of solids in the stormwater filtration system.

- Acetylene and propane gas tanks.
- Old battery storage.
- Two pole-mounted transformers on the northwestern corner of the Property and on the southern portion of the Property.
- Six on-site groundwater monitoring wells and one off-site groundwater monitoring wells.

Several commercial/industrial businesses are located west to northwest of the Property. However, this assessment did not identify contaminated facilities within the appropriate American Society for Testing and Materials (ASTM) search distances that would reasonably be expected to impact the Property.

Based on the findings of this assessment, no controlled Recognized Environmental Conditions (RECs) or historical RECs were identified.

The following REC was identified for the Property.

- Soil gas impacts remain elevated in the area of the former waste oil tank. PCE concentrations were significantly in exceedance of the residential ESL for all but one of 13 soil gas sample points assessed in ENGEO's August 2020 investigation. The site has not yet achieved closure for the former USTs from ACWD and RWQCB. The current ACWD-approved work plan should be implemented to determine the extent of soil gas impacts and potential remediation requirements.

Based on the review of regulatory databases and site reconnaissance, we present information on features of potential environmental concern that were either contained in the databases or observed on the Property. These features were not considered to be RECs. We briefly discuss each feature below.

- Given the age of the buildings on site, there is the potential for lead-based paint (LBP) and asbestos-containing material (ACM) to exist within building materials.
- Numerous chemicals are stored in drums and other containers on site that may have contributed to de minimis releases to soil. Oil impacts to the surface from heavy machinery were also observed during the site reconnaissance.

We have performed a phase I environmental site assessment in general conformance with the scope and limitations of ASTM E1527-21 and the standards and practices of the All-Appropriate Inquiry – Final Rule (40 Code of Federal Regulations Part 312). Any exception to, or deletions from this practice are described in Section 8.1 of the report.

It is our opinion that the findings of this study are based on a sufficient level of information obtained during our contracted scope of services to render a conclusion as to whether additional appropriate investigation is required to identify the presence or likely presence of a REC.

No data gaps were identified during this process. This assessment has revealed the following evidence of RECs in connection with the Property.

- Soil gas impacts remain elevated in the area of the former waste oil tank. PCE concentrations were significantly in exceedance of the residential ESL for all but one of 13 soil gas sample

points assessed in ENGEO's August 2020 investigation. The site has not yet achieved closure for the former USTs from ACWD and RWQCB.

ENGEO recommends the following.

- We recommend implementing the additional soil gas characterization and groundwater monitoring proposed in ENGEO's March 2022 Work Plan, in order to delineate the extent of the PCE plume and assess off-site impacts.
- Based on the use of heavy equipment on site, near-surface soil is potentially impacted by metals, TPH, VOCs, and SVOCs in areas not well characterized during previous investigations. We recommend that a soil management plan be implemented to manage impacted soil that may be encountered during future site development.
- Given the age of the buildings on site, there may be the potential for lead-based paint (LBP) and asbestos-containing material (ACM) within building materials. We recommend retaining a licensed ACM and LBP contractor prior to future building demolition.

1.0 INTRODUCTION

1.1 PURPOSE OF PHASE I ENVIRONMENTAL SITE ASSESSMENT

This assessment was performed at the request of Resmark Equity Partners, LLC for the purpose of environmental due diligence during property acquisition. The objective of this phase I environmental site assessment is to identify Recognized Environmental Conditions (RECs) associated with the Property. As defined in the ASTM Standard Practice E1527-21, an REC is "(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment."

1.2 DETAILED SCOPE OF SERVICES

The scope of services performed included the following.

- A review of previous environmental reports prepared for the Property.
- A review of publicly available and practicably reviewable standard local, state, tribal, and federal environmental record sources.
- A review of publicly available and practicably reviewable standard historical sources, aerial photographs, fire insurance maps and physical setting sources.
- A reconnaissance of the Property to review site use and current conditions. The reconnaissance was conducted to check for the storage, use, production, or disposal of hazardous or potentially hazardous materials.
- Written/oral interviews with owners/occupants and public sector officials.
- Preparation of this report with our findings, opinions, and conclusions.

1.3 SITE LOCATION AND DESCRIPTION

The Property is located at 38600 Cedar Boulevard and 38683 Timber Street in Newark, California (Figures 1 and 2). The approximately 3.45-acre Property is identified as APNs 92A-2585-12-1 and 92A-2585-31 (Figure 3) and is currently occupied by a construction and forestry equipment rental/sales business.

1.4 CURRENT USE OF PROPERTY AND ADJOINING PROPERTIES

A construction and forestry equipment dealer (Papé Machinery) currently occupies the Property. The majority of the Property is covered with concrete and two large warehouse buildings, with the northeastern portion covered in gravel and vegetation. The Property is operated as a storage and maintenance facility for the vehicle and equipment operations. Maintenance activities are completed under cover, within the large maintenance warehouse. Equipment and vehicle washing is completed in a bermed area where water is collected and managed. Storage of equipment and chemicals is completed in the large warehouses and outside on pallets. Papé Machinery operates a large stormwater treatment system that removes contaminants from the water prior to discharge into the storm system.

The Property has above-ground storage tanks (ASTs) that are in use and some that are no longer used but are still on site. Additionally, there were former underground storage tanks (USTs) that have leaked. A system of monitoring wells was installed to monitor the impacts in groundwater under an open case with ACWD and the RWQCB. Ohana Land Company, LLC, the current Property owner, has recently sought legal counsel to establish the responsible party (RP) for cleanup. Ohana is not responsible parties. Ohana acknowledges that Ohana and Nortax (through its dealings with Empire Tractor) are considered responsible parties.

Based on a review of current records and our site reconnaissance, the adjoining site users are summarized below.

TABLE 1.4-1: Adjoining Site Uses

DIRECTION	SITE USE
North	Interstate 880
South	Residential
East	Commercial development
West	Commercial development

1.5 SITE AND VICINITY CHARACTERISTICS

According to published topographic maps, the Property is situated at an elevation of approximately 30 feet above mean sea level (msl). Review of the Geologic map of the Newark 7.5-minute quadrangle, Alameda County, California (Helley, E.J., and Miller, D.M, 1992) found that the Property is underlain by older Pleistocene alluvial fan (Qpaf) characterized by loose sand and gravel.

Previous investigations have encountered groundwater beneath the Property at depths of approximately 10 to 15 feet below ground surface (bgs). The historical groundwater flow direction at the Property varies between west-southwest and south-southeast. The most recent groundwater monitoring report prepared by TRC recorded a southwest direction (TRC, 2018).

Fluctuations in groundwater levels may occur seasonally and over a period of years due to variations in precipitation, temperature, irrigation, and other factors.

We reviewed the Department of Conservation, Geologic Energy Management (CalGEM), formerly the Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR), website and map database to determine if any historical oil and/or gas wells were located within the Property. No wells were mapped within 1 mile of the Property.

We reviewed the National Pipeline Mapping System (NPMS) public viewer website for information about petroleum, natural gas, or hazardous liquid storage, processing, or transmission facilities in the vicinity of the Property. One active natural gas pipeline operated by PG&E is located parallel to Highway I-880 along the northern Property boundary.

1.6 INDOOR AIR QUALITY

An evaluation of indoor air quality, mold, or radon was not included as part of the contracted scope of services. The California Department of Public Health has conducted studies of radon risks throughout the state, sorted by zip code. Results of the studies indicate that 19 tests were

conducted within the Property zip code, with no tests exceeding the current EPA action level of 4 picocuries per liter {pCi/L}[1]).

In accordance with ASTM E2600-15 (Tier 1) (*Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*); there is one potential petroleum hydrocarbon source for vapor intrusion within 1/10 mile of the Property or volatile organic compound (VOCs) sources within 1/3 mile of the Property, Fremont paving. This facility is discussed in Section 3.3.1.2.

Soil vapor issues have been previously documented for the Property associated with past land use (Section 2.0).

2.0 SITE HISTORY AND PREVIOUS ENVIRONMENTAL REPORTS

Nortrax West (GeoTracker case ID T0600100516) is the open cleanup case (as of September 1992) pertaining to the Property. The Property has been occupied by various construction and agricultural equipment rental, sales, and/or repair businesses throughout its history. The first known tenant was International Harvester Company. The site was purchased by the Horton family in the 1970s. Between 1975 and 1979, the western warehouse was constructed. Horton Equipment Company operated at the Property until 1985, at which time Empire Tractor and Equipment Company began leasing the site. Nortrax purchased Empire in 2001 and were subsequently purchased by Papé Machinery in 2005, which remains the current tenant.

One 10,000-gallon diesel underground storage tank (UST), one 10,000-gallon gasoline UST, and two 550-gallon diesel USTs were formerly located in the eastern area of the 38683 Timber Street parcel. A former 550-gallon waste oil tank was located in the southern area of the parcel, south of the building, near Cedar Boulevard. The 10,000-gallon gasoline UST, 10,000-gallon diesel UST, 550-gallon diesel UST (sometimes reported as 500 gallons), and 550-gallon waste oil tank (sometimes reported as 500 gallons) were known to exist when the Property was purchased by the current owner in the 1970s. An additional 500-gallon diesel UST was discovered during the UST removal in 1989. Four groundwater monitoring wells (MW-1 through MW-4) were first installed in the vicinity of the known fuel USTs in 1986, in accordance with ACWD regulations for USTs. Soil samples were collected from the unsaturated zone at depths targeted near the bottom of each nearest UST (7 to 13 feet bgs). This initial sampling did not detect total petroleum hydrocarbons (TPH) above laboratory reporting limits (Ramboll, 2016).

In February 1987, approximately 20 to 30 gallons of waste oil overflowed out of the waste oil UST located on the southeastern portion of the site. Impacted surficial soil was reportedly excavated and removed from the Property. Soil samples within the immediate vicinity exhibited waste oil concentrations up to 930 milligrams per kilogram (mg/kg) and tetrachloroethylene (PCE) at concentrations of 9 to 12 micrograms per kilogram (µg/kg). Groundwater samples exhibited TPH as motor oil (TPH-mo) at 3.8 mg/kg1, PCE up to 86 µg/kg, with benzene and 1,1-dichloroethene (1,1-DCE) slightly above reporting limits. Subsequent sampling indicated no petroleum hydrocarbons were detected above laboratory limits in soil or groundwater. However, 1,1,1-trichloroethane (1,1,1-TCA) and PCE were detected at concentrations of 280 and 13 micrograms per liter (µg/L), respectively, and chloroform and 1,1-DCE were slightly above

[1] California Department of Public Health – Radon Program– (https://www.cdph.ca.gov/Programs/CEH/DRSEM/CDPH%20Document%20Library/EMB/Radon/Radon%20Test%20Results.pdf).

reporting limits. Correspondence between the owner and RWQCB indicated closure was granted by the City of Newark Fire Department in May 1988 (Ramboll, 2016).

A semi-annual groundwater monitoring event in March 1988 did not show significant concentrations of TPH or VOCs. However, a subsequent semi-annual groundwater monitoring event conducted in October 1988 reported 1/16th inch of light non-aqueous phase liquid, reportedly diesel, in the sample collected from MW-2. The sample from MW-2 had a concentration of 230,000 µg/L of TPH as gasoline (TPH-g). An UST release report was filed by the Newark Fire Department with ACWD. The 500-gallon diesel UST was ordered to be emptied immediately and removed. All USTs were removed from the site in April 1989 under oversight of the Fire Department and ACWD. During tank excavations and removals, the additional 500-gallon diesel UST was discovered. In total, five tanks were removed, and visibly contaminated soil was excavated for disposal (Ramboll, 2016).

Quarterly groundwater monitoring was conducted intermittently between 1991 and 1993, 1997 and 1998, and in 2001, which indicated that contamination was not sufficiently remediated. According to the site history section on GeoTracker, TPH-g was detected in groundwater at concentrations up to 4,300 µg/L in 1992. In 1993, total petroleum hydrocarbons as diesel (TPH-d) were detected in groundwater in concentrations up to 120,000 µg/L (the commercial/industrial environmental screening level [ESL[2]] for TPH-d in groundwater is 500 µg/L). Methyl tert-butyl ether (MTBE) was either non-detect or detected at very low levels in soil and groundwater. Chlorinated volatile organic compounds (VOCs) were also detected in high concentrations onsite. Tetrachloroethylene (PCE) was detected in groundwater at a concentration of 160 µg/L (the commercial/industrial ESL for PCE in is 0.7 µg/L); 1,1,1-trichloroethane (TCA) was detected up to 180 µg/L (the commercial/industrial ESL is 0.07 µg/L); and 1,1,-Dichloroethane (DCA) was detected up to 57 µg/L (the commercial/industrial ESL is 0.2 µg/L) (Ramboll, 2016).

Hydro Analysis, Report of Subsurface Investigation, Nortrax West, 38600 Cedar Boulevard, Newark, California; November 16, 2004.

Hydro Analysis, Inc. conducted an investigation in 2004 to delineate the horizontal and vertical extent of groundwater impacts and to potentially install additional groundwater monitoring wells. Fourteen borings were installed on site and downgradient to the south of the site to depths of 20 feet bgs. Soil samples were collected at 5 and 10 feet in all borings and 15 feet in select borings. All soil samples were analyzed for TPH, BTEX, and MTBE. Select samples were analyzed for VOCs. Grab groundwater samples were collected at each location and analyzed for TPH, BTEX, MTBE, and VOCs. Two deeper groundwater samples were collected at 55 to 60 feet bgs from CPT locations and analyzed for TPH, BTEX, MTBE, and VOCs. Results of the soil sampling in the vicinity of the former fuel UST cluster reported low concentrations of TPH-g and TPH-d in shallow samples and low concentrations of BTEX in the 5 feet bgs sample. Soil sampling in the vicinity of the former waste oil UST reported low concentrations of TPH and BTEX. Downgradient soil samples did not report TPH or BTEX above reporting limits. Low concentrations of PCE were reported in deeper samples in the vicinity of the former waste oil UST. 1,1-DCA was detected in the 15 feet bgs sample. The only exceedance of regulatory screening criteria for all soil samples was the concentration of TPH-d in the 5 feet bgs sample. Results of groundwater samples reported low concentrations of TPH-d in the vicinity of the former fuel UST cluster. Low concentrations of TPH, BTEX, and VOCs were also detected in samples collected in the vicinity

[2] San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels for Soil, Commercial/Industrial (Interim Final 2019, Rev 2).

and downgradient of the former waste oil UST. In general, concentrations of TPH and VOCs were consistent with those reported during periodic groundwater monitoring events at the site. TPH, MTBE, BTEX, or VOCs were not detected in deep groundwater samples from the Newark Aquifer.

Hydro Analysis, Report of Subsurface Investigation, Nortrax West, 38600 Cedar Boulevard, Newark, California; November 30, 2007.

A 2007 monitoring well installation was performed at the request of ACWD to determine the lateral extent of the VOC contamination. Four additional monitoring wells were installed at the site upgradient, cross gradient, and downgradient of the former waste oil UST. Soil samples were collected at 5-foot intervals to 20 feet bgs and analyzed for TPH, BTEX, MTBE, and VOCs. No concentrations of TPH or BTEX were detected in soil samples with the exception of one low TPH-d concentration. Low VOC concentrations were detected at two of the locations. No concentrations of TPHs or VOCs were above regulatory screening criteria. Groundwater sampling indicated low concentrations of TPH-d in two well locations and no other TPH, BTEX, or MTBE above reporting limits within the remaining. All four monitoring wells had at least one detection of a VOC, including low concentrations of PCE, 1,1,1-TCA, TCE, 1,1-DCA, and cis-1,2-DCE. PCE was detected in all four monitoring wells (Ramboll, 2016).

Recent investigation reports are discussed below.

Ramboll, Site Characterization Report, 38600 Cedar Boulevard, Newark, California; September 2016.

Ramboll prepared a Site Characterization Report to provide recent site conditions. Groundwater samples have been analyzed for TPH, BTEX, MTBE, and VOCs. Since 2010, groundwater VOC concentrations have generally decreased in all wells except two. Ramboll identified the former 500-gallon waste oil UST on the southeastern portion of the site and former fuel UST cluster near the northeastern portion of the site as being the two impact sources to subsurface soil and groundwater. Ramboll identified the following chemicals of potential concern (COPCs) for the former 500-gallon waste oil UST:

- TPH-g, -d
- Benzene
- 1,1-DCE
- Cis-1,2-DCE
- 1,1-DCA
- Methylene Chloride
- TCE
- 1,1,1-TCA
- PCE
- Carbon Tetrachloride

And the following COPCs for the former fuel USTs:

- TPH-g, TPH-d
- Benzene

Ramboll concluded that TPH-d remains above regulatory screening criteria in two of the monitoring wells near the former fuel UST area and several VOCs remain above regulatory screening criteria in wells in the vicinity of the former waste oil UST. Ramboll provided the following recommendations.

- In-situ treatment of groundwater in the former UST areas.
- A soil vapor investigation to confirm there is not a significant risk to site occupants from vapor intrusion of residual VOCs in shallow groundwater.

These steps were recommended to be discussed with ACWD.

TRC; First Semi-Annual 2018 Groundwater Monitoring Report; 38600 Cedar Boulevard, Newark, California; June 22, 2018

The most recent groundwater monitoring report available on GeoTracker documents groundwater sampling performed in the summer of 2018. Groundwater monitoring was performed for wells MW-1 through MW-8. For wells MW-2 and MW-4, located in the upgradient portion of the site, analyses detected no TPH-g, benzene, ethylbenzene, xylenes, MTBE, or naphthalene. With the exception of one detection of TPH-d at 2,400 µg/L in MW-3, analyses detected no analytes exceeding respective MCLs[3]. The following summarizes concentrations of analytes detected in upgradient wells.

- 2,400 µg/L of TPH-d in MW-3
- 1,200 µg/L of TPH-mo in MW-3
- 0.12 and 0.11 µg/L toluene in MW-2 and MW-4, respectively
- 0.093 µg/L of PCE in MW-3
- 0.22 µg/L 1,1 DCA in MW-3

Wells MW-1 and MW-5 through MW-8 are located in the downgradient portion of the Site. With the exception of 170 µg/L of TPH-mo at MW-1, analyses detected no concentrations of TPH-g, TPH-d, TPH-mo, BTEX, MTBE, or naphthalene in any of the downgradient wells. The following summarizes concentrations of analyses detected in downgradient wells:

- PCE concentrations ranging from 1.7 µg/L (MW-5) to 37 µg/L (MW-1)
- TCE concentrations ranging from 1.1 µg/L (MW-5) to 5.8 µg/L (MW-1)
- 1,1,1-TCA concentrations ranging from 0.068 µg/L (MW-6) to 7.6 µg/L (MW-1)
- 0.71 µg/L of 1,1-Dichloroethene (1,1-DCE) in MW-1
- cis-1,2-Dichloroethene (cis-1,2 DCE) concentrations ranging from 1.3 µg/L (MW-8) to 16 µg/L (MW-1)
- 0.081 µg/L of trans-1,2-Dichloroethene in MW-1
- 1,1-DCA concentrations ranging from 0.13 µg/L (MW-8) to 8.5 µg/L (MW-1)
- 1,2-Dichloroethane (1,2-DCA) concentrations of 0.32 µg/L in MW-8 and 0.50 µg/L in MW6
- Vinyl Chloride concentrations ranging from 0.071 µg/L (MW-6) to 0.10 µg/L (MW-1)
- 0.064 µg/L of Chloroform in MW-1

[3] San Francisco Bay Regional Water Quality Control Board Groundwater Maximum Contaminant Level (MCL) Priority Residential (Interim Final 2019, Rev 2.)

Results showed continued water quality improvement compared to historical findings. Upgradient wells were consist with previous records. The detected TPH-d concentration of 2,400 µg/L at MW-3 was higher than the values samples presented in December 2017 and samples reported in TRC's semi-annual monitoring report, and exceeded the Tier 1 ESL for TPH-d of 100 µg/L. Although this value was higher than in the previous sampling event, it is within the historical range for the site. No other detected concentrations exceeded their respective screening levels in the upgradient wells.

With the exception of MW-1, there was no detection of TPH in any of the downgradient wells. At MW-1 the detected TPH-mo concentration was consistent with historical concentrations. Analyses detected no PAH concentrations, including naphthalene, at or above the reporting limit. The following exceedances were noted.

- In MW-5, the detected cis-1,2 DCE concentration exceeded its ESL and MCL criteria
- In MW-6, detected PCE and 1,2 DCA concentrations exceeded respective ESL and MCL Criteria
- In MW-7, PCE and cis 1,1-DCE concentrations exceeded respective ESL and MCL criteria.

Despite the exceedances, detected analytes in the downgradient wells were within the historical range and analyses detected no analytes exceeding respective MCL or Tier 1 ESLs in MW-8, the most downgradient well. No vinyl chloride concentrations exceeded the MCL of 0.5 µg/L.

Stantec, Documentation of Shallow Soil Sample Collection and Soil Vapor Sampling; 38600 Cedar Boulevard; Newark, California; October 18, 2018

Based on ACWD direction, Stantec attempted to redevelop three wells, MW-1 through MW-3. Only MW-2 was able to be redeveloped because MW-1 and MW-3 had bends in the wells. At the time of the report, Stantec was in discussion with ACWD to determine a path forward to repairing and redeveloping the damaged wells. One soil sample was obtained at 10 feet bgs. PCE was detected at 0.023 mg/kg. Several metals were detected with nickel detected above residential ESLs. No VOCs, TPHs, or PAHs were detected. One soil vapor well was installed at the same location and analyzed for VOCs and helium. 1,1-DCE, carbon disulfide, 1,1-DCA, cis-1,2-DCE, 1,1,1-TCA, TCE, and PCE were detected. 1,1-DCA, TCE, and PCE were detected above their respective ESLs.

Stantec proposed to install six additional soil vapor wells and the redevelopment of monitoring wells MW-1 and MW-3.

ENGEO, Phase I Environmental Site Assessment, 38600 Cedar Boulevard, Newark, California, April 7, 2020; Project No. 15799.001.000.

ENGEO prepared a phase I environmental site assessment for the subject Property dated April 7, 2020. At the time of writing of the environmental site assessment, the Property consisted of a construction and forestry equipment rental business, Papé Machinery. The site reconnaissance and records review found documentation and physical evidence of soil, soil gas, and groundwater impairments associated with the use or past use of the Property. A review of regulatory databases maintained by county, state, tribal, and federal agencies also found documentation of hazardous materials violations and discharge on the Property. However, no contaminated facilities were identified within the appropriate American Society for Testing and Materials (ASTM) search distances that would reasonably be expected to impact the Property.

No historical RECs and no controlled RECs were identified for the Property. The following RECs were identified:

- The property is an open leaking underground storage tank (LUST) case with the Alameda County Water District (ACWD) and the Regional Water Quality Control Board (RWQCB). Former diesel underground storage tanks (USTs) (two 550 gallon and one 10,000 gallon), one gasoline UST (10,000 gallon), and one waste oil UST (550 gallon) previously operated at the Property. These tanks were removed in 1989 and soil and groundwater monitoring for the site has been conducted for known elevated hydrocarbon, MTBE, and chlorinated volatile organic compounds.

The following potential environmental concern was also noted.

- Given the age of the buildings on site, there may be the potential for lead-based paint (LBP) and asbestos-containing material (ACM) within building materials.

ENGEO also recommended the following activities be performed based upon a Supplemental Site Investigation Workplan.

- Development and re-sampling of eight existing groundwater wells.
- Soil, groundwater, and soil gas investigation to assess subsurface impacts across the Property.

ENGEO, Phase II Environmental Site Assessment, 38600 Cedar Boulevard, Newark, California, August 28, 2020; Project No. 15799.001.000.

ENGEO conducted a phase II environmental site assessment in August 2020 to address remaining impediments to closure, which included additional soil and soil gas testing near the former waste oil UST, further delineation of soil vapor impacts, and assessment and sampling of the existing eight monitoring wells.

Soil sampling included collection of a total of 16 samples from four boring locations at depths of 1, 5, 10, and 15 feet bgs (with the exception of S-4 at 1 foot, which was unable to be recovered). The samples were analyzed for TPH-g, VOCs, TPH-d, TPH-mo, and metals.

Grab groundwater sampling included collection of three samples from the five attempted boring locations (GW-1 through GW-5). Locations GW-3 and GW-5 did not have sufficient recharge during sample collection. The three samples were analyzed for TPH-g, VOCs, TPH-d, and TPH-mo. Monitoring wells MW-1 through MW-7 were sampled and submitted for the same analyses as the grab groundwater samples.

Thirteen soil gas wells were also installed on the Property. Seven wells were installed as nested wells near the former waste oil tank at depths of 6 and 10 feet bgs and the remaining six soil vapor probes were installed to 6 feet bgs.

The soil samples exhibited detections of chromium, lead, nickel, and zinc. TPH-g, TPH-d, and TPH-mo were detected in various samples. One VOC, tert-butanol, was detected in three samples. All concentrations were below SFBRWQCB residential ESLs, with the exception of TPH-d, reported at 481 mg/kg (above the screening level of 260 mg/kg) in Sample S-4@5.

Overall, soil impacts appear to be relatively minor with only one exceedance with respect to residential ESLs.

The grab groundwater samples contained low concentrations of VOCs including PCE, TCE, cis-1, 2-DCE, 1,1-DCA, and isopropyl benzene, at concentrations below RWQCB Priority Maximum Contaminant Levels (MCLs). TPH was not detected above laboratory reporting limits. The monitoring well samples contained low concentrations of VOCs including PCE, TCE, cis-1,2-DCE, 1,1-DCE, vinyl chloride, 1,1-DCA, and 1,1,1-trichloroethane. MW-1 exhibited exceedances of PCE, TCE, cis-1,2-DCE, vinyl chloride, and 1,1-DCA, with respect to MCLs. PCE was additionally reported in exceedance of its screening levels in MW-7. Cis-1,2-dichloroethene was reported in exceedance of its MCL screening level in MW-7. TPH-g was reported at 209 µg/L in MW-1, below its MCL. Minor concentrations of TPH-d were reported in MW-2 and MW-3, both below its MCL. TPH-mo was not detected above laboratory reporting limits in any samples. Groundwater impacts appear to be localized to the immediate vicinity of the former waste oil tank and continue to attenuate based on historical monitoring events.

The soil gas samples exhibited numerous VOC detections. Chlorinated solvent products PCE, TCE, cis-DCE, and vinyl chloride were detected in a majority of the samples. PCE was in exceedance of RWQCB residential ESLs[4] in all except one sample (SG-10), at concentrations ranging between 27 and 36,000 micrograms per cubic meter (µg/m^3). TCE was in exceedance of ESLs for sample locations SG-2@6', SG-2@10', SG-3@10', SG-4@6', SG-4@10', SG-5@6', and SG-5@10', at concentrations ranging between 35 and 6,600 µg/m^3. Cis-1,2-DCE was reported in exceedance of its ESL at SG-4@10', SG-5@6', and SG-5@10', at concentrations ranging between 7,000 and 33,000 µg/m^3. Vinyl chloride was reported in exceedance of its ESL at SG-5@6' (1,900 µg/m^3) and SG-5@10' (2,000 µg/m^3). Other VOCs detected in samples exceeding ESLs included 1,1,2-trichloroethane, 1,1-DCA, benzene, carbon tetrachloride, chloroform, and naphthalene. TPH-g was reported in exceedance of its ESL for SG-1@6', SG-1@10', SG-2@10', SG-3@6', SG-4@10', SG-5@6' and SG-5@10'. Overall, soil gas impacts appear to the most concentrated in the vicinity of the former waste oil UST and there is evidence of reductive dichlorination occurring for at least S-4 and SG-5. There is currently limited control on the extent of the PCE soil vapor plume based on the data.

Based on these findings, ENGEO concluded that soil and groundwater impacts appear to have attenuated and are unlikely to continue to attribute as a vapor intrusion source. While groundwater impacts are minor, continued groundwater monitoring should be performed for MW-1 and MW-7 to verify attenuation. ENGEO recommended additional soil gas characterization to determine the extent of the chlorinated solvent vapor plume. PCE concentrations were significantly in exceedance of the ESL for all but one of the soil gas sample points assessed. A soil vapor extraction (SVE) system will likely need to be implemented across the southeastern portion of the site to remediate chlorinated solvent (PCE), impacts to acceptable residential levels. A remedial action workplan (RAW) should be prepared to address SVE methodology and goals. A long-term vapor intrusion mitigation (VIMS) system will likely be required for structures overlying the existing soil vapor plume to address residual post-remediation impacts. ENGEO recommended to provide the results of the phase II assessment to ACWD for their review to discuss remedial action objectives and any remaining impediments to closure for the waste oil tank. Engagement with RWQCB may be required to address vapor intrusion concerns and necessary requirements for residential redevelopment.

[4] San Francisco Bay Regional Water Quality Control Board ESLs for Subslab/ Soil Gas Vapor Intrusion ESL Levels, Residential (Interim Final 2019, Rev 1).

ACWD, Request for Soil Gas Investigation, September 22, 2021.

In a September 2021 letter to Ohana Land Company, LLC (current Property owner), ACWD requested that an additional soil vapor and indoor air investigation be conducted. ACWD cited the soil gas results of ENGEO's previous phase II investigation, noting that the elevated VOC concentrations may pose a risk to human health. ACWD noted that the extent of VOC contamination in soil vapor should be defined onsite and offsite, and any potential vapor intrusion to indoor air pathways should be evaluated. Depending on the results of the investigation, a Corrective Action Plan to remediate and/or mitigate the soil vapor impact may be required.

ENGEO, Supplemental Environmental Assessment Work Plan, 38600 Cedar Boulevard, Newark, California; November 23, 2021 (Revised March 3, 2022). Project No. 15799.002.000.

ENGEO proposed a work plan to address remaining impediments to closure as part of ACWD's request. The following scope of work was proposed.

- Collection of soil gas samples from the existing 14 soil gas wells SV-1 and SG-1 through SG-13 for analysis of VOCs.
- Installation of eight additional permanent soil gas wells on the Property, including six on-site and two off-site along the southern side of Cedar Boulevard for analysis of VOCs.

Collection of groundwater samples from monitoring wells MW-1 through MW-7 for analysis of TPH-g, VOCs, TPH-d, and TPH-mo (wells MW-8 could not be located and appeared to have been buried or damaged due to recent City of Newark landscape and sidewalk improvements).

3.0 RECORDS REVIEW

3.1 PROPERTY RECORDS

3.1.1 Title Report/Ownership

The Title Report lists recorded land title detail, ownership fees, leases, land contracts, easements, liens, deficiencies, and other encumbrances attached to or recorded against a subject property. Laws and regulations pertaining to land trusts vary from state to state and the detail of information presented in a Title Report can vary greatly by jurisdiction. As a result, ENGEO utilizes a Title Report, when provided to us, as a supplement to other historical record sources. ENGEO assumes that any environmental lien, activity use limitations (AUL), and/or institutional controls for the Property are noted in the Preliminary Title Report.

A Preliminary Title Report for the Property, prepared by First American Title Company and dated March 18, 2022, was provided for our review. The Property title is vested in Ohana Land Company, LLC. No references to environmental liens, deed restrictions or other potential environmental issues were noted. This report is included in Appendix B. However, an easement granted in favor of Pacific Gas & Electric (PG&E) for the following right was noted.

- *An easement for right at any time, and from time to time, to excavate for, install, replace (of the initial or any other size), maintain and use such pipe lines as second party shall from time to time elect for conveying gas, oil, petroleum products, or any other liquids, gases, or substances which can be transported through a pipe line, with necessary and proper valves and other appliances and fittings, and devices for controlling electrolysis for use in connection with said pipe lines, together with adequate protection and incidental purposes, recorded November 29, 1979, as Instrument No. 1979-242804 of Official Records.*

3.1.2 Environmental Liens and Activity Use Limitations

The Title Report lists recorded land title detail, ownership fees, leases, land contracts, easements, liens, deficiencies, and other encumbrances attached to or recorded against a subject property. Laws and regulations pertaining to land trusts vary from state to state and the detail of information presented in a Title Report can vary greatly by jurisdiction. As a result, ENGEO utilizes a Title Report, when provided to us, as a supplement to other historical record sources. A Preliminary Title Report for the Property, prepared by First American Title Company and dated March 18, 2022, was provided for our review. The Property title is vested in *OHANA LAND COMPANY, LLC*. No references to environmental liens, deed restrictions or other potential environmental issues were noted. This report is included in Appendix B.

We reviewed two engineering control (EC) and institutional control (IC) registries: EnviroStor, a website maintained by the State of California Department of Toxic Substances Control, and GeoTracker, a website maintained by the State of California Water Resources Control Board, for environmental liens or AULs associated with the Property. No records of environmental liens or AULs were noted.

3.2 HISTORICAL RECORD SOURCES

The purpose of the historical record review is to develop a history of the previous uses or occupancies of the Property and surrounding areas to identify those uses or occupancies that are likely to have led to recognized environmental conditions on the Property.

3.2.1 Historical Topographic Maps/Aerial Photographs/Sanborn Maps

Historical USGS topographic maps and aerial photographs were reviewed to determine if discernible changes pertaining to the Property had been recorded. EDR provided the following maps and photographs, presented in Appendices C and D. A Sanborn fire insurance map search did not identify maps for the Property; the search report is presented in Appendix E.

TABLE 3.2.1-1: Historical Review Summary

HISTORIC MAP/PHOTOGRAPH	YEARS
Topographic Maps	1899, 1906, 1915, 1941, 1947, 1948, 1953, 1959, 1968, 1973, 1980, 1996, 1997, 2012, 2015, 2018
Aerial Photographs	1939, 1946, 1948, 1958, 1963, 1968, 1974, 1979, 1982, 1993, 1998, 2006, 2009, 2012, 2016
Sanborn Maps	N/A

In the 1899 topographic map, several roads and dispersed structures are depicted in the vicinity of the Property. In 1939 the site appears to be vacant and likely used as a farm. A small area located adjacent to the southwest of the site appears to be used for fruit trees. Surrounding areas are primarily agricultural. The Property is first mapped in the 1947 topographic map along Cedar Road. An intermittent creek is mapped trending northeast/southwest through the Property, and the Hetch Hetchy aqueduct is mapped trending east/west, just south of the Property. The site appeared similar until 1958, when Highway I-880 and the Mowry Avenue/Highway I-880 interchange appeared under construction north and east of the Property, respectively. In the 1959 topographic map, the intermittent creek appears to have been channelized and is now located along the western Property boundary.

In the 1963 aerial photograph, two buildings appear in the southwestern and southeastern corners of the 18683 Timber Street property. By 1968, these appeared to be replaced with two larger, joined buildings in the southeastern corner of the Property. 38600 Cedar Boulevard was paved and appeared to be used for parking. Residential developments were constructed in the surrounding areas. By 1979, a large warehouse building was constructed in the central area of 38600 Cedar Boulevard. Surrounding areas were developed with commercial/residential and other land uses by 1993.

3.2.2 City Directory

City Directories, published since the 18th century for major towns and cities, list the name of the resident or business associated with each address. A city directory search conducted by EDR is located in Appendix F.

TABLE 3.2.2-1: City Directory

YEAR	LISTINGS
1970	International Harvester Company Construction Equipment BR Newark
1980	Horton Equipment, Inc.
1982	Horton Equipment, Inc. Newark
1986	Horton Equipment, Inc.
1991	Employ Exterminators Oakland Office; Employee Assistance Program
1994	Empire Tractor & Equipment Company
1999	Empire Equipment Company
2002	Horton, John
2004	Nortrax West
2014	Papé Machinery, Inc.
2017	Pape Group, Papé Machinery, Inc.

The other site address of 38683 Timber Street was not listed. Nearby listings show a variety of residential, commercial, and light industrial land uses.

3.3 ENVIRONMENTAL RECORD SOURCES

EDR performed a search of federal, tribal, state, and local databases regarding the Property and nearby properties. Details regarding the databases searched by EDR are provided in Appendix A. A list of the facilities documented by EDR within the approximate minimum search distance of the Property is provided below.

3.3.1 Environmental Records

3.3.1.1 Property

The Property address of 38600 Cedar Boulevard is listed on the following Environmental Record source databases.

TABLE 3.3.1.1-1

FACILITY	DATABASES
Empire Tractor & Equipment Company	CERS, CORTESE, ECHO, FINDS, HAZNET, HIST CORTESE, HWTS, LUST, RCRA-SQG, RGA LUST
Nortrax, Inc.	ECHO, FINDS, HAZNET, HWTS, RCRA NONGEN / NLR, RGA LUST
Papé Machinery, Inc.	AST, CERS, CERS HAZ WASTE, CERS TANKS, CIWQS, ECHO, FINDS, HAULERS, NPDES, RCRA NONGEN / NLR,
Morton Equipment, Inc.	HIST UST
None listed	ERNS, CHMIRS

The listings describe various environmental issues associated with the Property, including the following.

- The former facilities and/or current facility are documented handlers of chemicals including halogenated solvents; fuel; acids; oxygenated solvents such as acetone, butanol, and ethyl acetate; waste oil and mixed oil; and hydrocarbon solvents such as benzene, hexane, and Stoddard solvent.
- The Property is or was enrolled under a NPDES stormwater permit.
- At least one aboveground storage tank is present at the Property.
- Underground storage tanks and leaking underground storage tanks have been previously, or are presently, located at the Property.
- The facility has received numerous violations from Alameda County Department of Environmental Health pertaining to hazardous waste storage.
- The Emergency Response Notification System (ERNS) and California Hazardous Materials Incident Reporting System (CHMIRS) databases document an incident that occurred in 2001 when a caller stated that earth-moving equipment was observed dripping oil onto the soil and pavement.

Impacts associated with the past and current uses of the site, as well as cleanup responses to these impacts, are discussed in more detail in Section 2.0.

3.3.1.2 Other Properties

The following databases include facilities listed within the appropriate ASTM search distances of the Property on Environmental Records sources.

TABLE 3.3.1.2-1

DATABASE	NUMBER OF LISTED FACILITIES
RCRA NonGen / NLR	17
LUST	15
ENVIROSTOR	12
Cortese	10
HIST CORTESE	9
CERS HAZ WASTE	5
CPS-SLIC	4

DATABASE	NUMBER OF LISTED FACILITIES
ECHO	4
HIST UST	4
HWTS	4
Notify 65	4
CERS	3
FINDS	3
HAZNET	3
HWP	3
RCRA-SQG	3
CIWQS	2
CORRACTS	2
NPDES	2
CERS TANKS	1
CHMIRS	1
HAULERS	1
PFAS	1
SWF/LF	1
VCP	1

Several commercial/industrial sites occupy warehouses at a site located between approximately 100 feet to 750 feet west-northwest of the subject Property, at the addresses shown below.

TABLE 3.3.1.2-2

ADDRESS	TENANT
38288 Cedar Boulevard	Viviano Trucking, J&M Concrete
38370 Cedar Boulevard	Fremont Paving
38424 Cedar Boulevard	Applied Air Filters
38456 Cedar Boulevard	California Camper Repair; Bracho Marble and Granite
38472 Cedar Boulevard	Zipin Out Auto Repair/ Phoenix Auto/Bay Area Body Shop
38486 Cedar Boulevard	Eurobaun Motorsports; Freitas Family personal storage
38592 Cedar Boulevard	Autoland Car Sales; Newark Commercial truck Repair
38594 Cedar Boulevard	Yama Auto Brokers; Golden State Auto Body

Three facilities of potential environmental concern are discussed below.

J & M Concrete – 38288 Cedar Boulevard

J&M Concrete, located approximately 500 feet west-northwest of the Property, is an open LUST cleanup case under GeoTracker case ID T0600173774. The site has been adequately characterized and the case is listed as eligible for closure as of March 11, 2022; therefore, it is not expected to pose an environmental concern to the Property.

Fremont Paving – 38370 Cedar Boulevard

Fremont Paving, located approximately 500 feet west-northwest of the Property, is listed as an open LUST case under GeoTracker case ID T0600102260. Six USTs which stored diesel and gasoline fuels were removed in 1989. Periodic groundwater monitoring has been conducted on an approximate quarterly basis since March 2001. Grab groundwater samples have reported TPH-g from up to 48,000 µg/L, TPH-d from up to 31,000 µg/L, BTEX up to 10,000 µg/L, and MTBE up to 26 µg/L. Historical groundwater flow directions vary between west-southwest and south-southeast. Previous monitoring reports have indicated a southwest direction (TRC, 2018). Given the groundwater flow direction and distance from the Property, it is unlikely that this site poses an environmental concern for the Property.

Zipin Out Auto Services / Phoenix Auto / Bay Area Body Shop – 38472 Cedar Boulevard

This automobile repair facility, located approximately 500 feet west-northwest of the Property, is listed in the CERS HAZ WASTE, ECH, FINDS, HAZNET, HWTS, RCRA NONGEN/NLR, and RCRA-SQG databases. The facility has received numerous violations pertaining to hazardous waste storage and disposal, including documentation of oil spills to the soil surface. However, based on distance and the regional groundwater flow direction (generally directed toward the southeast), this facility is not expected to pose an environmental concern for the Property.

In addition to the above listed properties, one facility was listed on the “Orphan Summary” list. However, this facility appears to be located beyond the ASTM recommended radius search criteria.

Based on the distances to the identified database sites, regional topographic gradient, and the EDR findings, it is unlikely that the above-stated database sites pose an environmental risk to the Property.

3.4 REGULATORY AGENCY FILES AND RECORDS

The following agencies were contacted pertaining to possible past development and/or activity at the Property.

TABLE 3.4-1: Regulatory Agency Records

NAME OF AGENCY	RECORDS REVIEWED
City of Newark Building and Planning Department	We contacted the Newark City Clerk regarding historical building permit files for the Property. The files reviewed included the following: • A building permit to install a fuel storage tank, dispensers, and associated electrical components on the Property from July 1990; • Permit inspection records; • Building permits for a roof equipment screen from October 2005 and November 2007; • A building permit for aboveground storage tanks from November 2009; • A permit for tenant improvement (piping removal and replacement) from November 2009;

NAME OF AGENCY	RECORDS REVIEWED
	• A mechanical permit for heating and air conditioning from August 2010; • A building permit for electrical components from December 2009; • A building permit for electrical components from December 2010; • Various cover pages for structural calculation reports • Various inspection records for final grading, plumbing, and electrical from the 1990s and 2009-2012; and • A permit for repair of an electrical line from December 2012.
City of Newark Fire Department	We contacted the City of Newark Fire Department regarding environmental records pertaining to the former USTs removed from the Property. The following files were reviewed: • A site plan depicting the locations of buildings, ASTs, used batteries, used oil filters, the former used oil UST, oil water separators, and a sludge staging area; • A checklist from the Water Board for submitting a notice of intent for stormwater discharge at the Property; • A document titled "Business Owner/ Operator Identification" which provides instruction for submission of a hazardous materials inventory; • The title page of the November 2004 report written by Hydro Analysis (refer to Section 2.0); • A permit from the City of Newark Public Works Department, Building Inspection Division for a stormwater treatment system; and • A California Environmental Reporting System (CERS) document from June 2014 identifying business activities. This plan identified the presence of ASTs at the Property and handling of oil, fuel, gases, batteries, antifreeze, used oil filters, and wash rack detergent. These hazardous chemicals are consistent with those observed during our site reconnaissance (Section 4.0). The plan notes that the facility does not operate underground storage tanks. The file also included an emergency response and contingency plan, hazardous materials business plan, and inspection forms from Alameda County Fire Department.
Alameda County Department of Environmental Health	We submitted an online request for environmental records from ACDEH pertaining to the Property addresses. No records were available for 38683 Timber Street. We received numerous records for 38600 Cedar Boulevard pertaining to the former USTs and hazardous materials handling, which verified the information available in previous reports on GeoTracker.
Alameda County Water District	We contacted ACWD regarding environmental records pertaining to the Property. All files have been uploaded to GeoTracker.
Alameda County Fire Department	We contacted ACFD regarding environmental records pertaining to the former USTs located at the Property. ACFD did not maintain any records.

NAME OF AGENCY	RECORDS REVIEWED
Alameda County Assessor's Office	We reviewed online parcel maps provided by Alameda County Assessor's Office. The Property boundaries and APNs are consistent with the parcel information provided by EDR.
California State Water Resources Control Board	We reviewed GeoTracker, the website maintained by the California State Water Resources Control Board, for records pertaining to the subject Property. 38600 Cedar Boulevard is listed as Nortrax West with GeoTracker ID T0600100516. This facility is discussed in Section 2.0. No records are available for 38683 Timber Street.
Department of Toxic Substances Control	We reviewed EnviroStor, the website maintained by the California Department of Toxic Substances Control, for records pertaining to the subject Property. Neither of the Property addresses are listed on EnviroStor.

4.0 SITE RECONNAISSANCE

4.1 METHODOLOGY

ENGEO conducted a reconnaissance of the Property on April 6, 2022. The reconnaissance was performed by Stephen Fallon, a Project Engineer of ENGEO. The Property was viewed for hazardous materials storage, superficial staining or discoloration, debris, stressed vegetation, or other conditions that may be indicative of potential sources of soil or groundwater contamination. The Property was also checked for evidence of fill/ventilation pipes, ground subsidence, or other evidence of existing or preexisting underground storage tanks. Photographs taken during the site reconnaissance are presented in Figure 4.

4.2 GENERAL SITE SETTING

There are four structures on site: two offices, a storage warehouse, and a maintenance warehouse. The majority of the Property is covered with concrete and the two large warehouse buildings, with the northeastern portion covered in gravel and vegetation. Maintenance activities are completed under cover within the large maintenance warehouse. Equipment and vehicle washing is completed in a bermed area where water is collected and managed. Storage of equipment and chemicals is completed in the large warehouses and outside on pallets. Papé Machinery operates a large stormwater treatment system that removes contaminants from the water prior to discharge into the storm system. The two office buildings are located within the central portion of the Property.

4.3 EXTERIOR OBSERVATIONS

The following table summarizes our observations during the reconnaissance.

TABLE 4.3-1: Exterior Site Observations

FEATURE TYPE	OBSERVATIONS
Structures	There are four structures on site. We observed two warehouses associated with storage and maintenance of various types of vehicles and equipment. Two office buildings are located within the central portion of the Property, and we observed the main office building.

FEATURE TYPE	OBSERVATIONS
Hazardous Substances and Petroleum Products in Connection with Identified Uses	We observed the following hazardous substances and petroleum products. • Two active concrete above-ground storage tanks (ASTs) which contained diesel and used waste oil • Approximately 11 drums were observed throughout the Property (uncovered) which appeared to store cleaning solutions, hydraulic oil, antifreeze, waste gasoline, waste diesel, and other unknown materials (unlabeled drums) • Approximately 24 drums (covered storage) containing used antifreeze, used absorbent materials, used coolant, used solvents, used diesel, and other waste materials • Large quantities of small quantity (5-gallon or less) chemicals mainly including engine coolant, hydraulic oil, engine oil, transmission oil, compression oil, and gear lubricant • Small spray cans and other containers (1-gallon or less) of various lubricants, cleaners, etc. • Four empty ASTs that formerly contained hydraulic fluid, SAE 10W-30 engine oil, hydraulic tractor fluid, and SAE 15W-40 engine oil • A 270-gallon tote of FlocClear 2% BioPolymer is used to manage settlement of solids in the stormwater filtration system • Acetylene and propane gas tanks • Old battery storage (>8 batteries stored)
Storage Tanks (underground and above-ground)	Two above-ground storage tanks were observed within the northeastern portion of the Property in the approximate location of the former USTs (Figure 2). One of these tanks was labeled as 'Waste Oil' and the other as 'Diesel'. Four 500-gallon ASTs that were no longer in operation were observed in the central portion of the Property. We are aware five USTs formerly operated within the Property. Pavement cuttings were observed on the northwestern portion of the Property (Figure 2); however, this is likely not in conjunction with former USTs. It is not evident the reasoning for this pavement cutting. We observed two above-ground poly tanks for water storage on the northwestern end of the Property (Figure 2). The large poly tanks are associated with the stormwater filtration system that is operated to manage the stormwater prior to off-site discharge.
Odors	A petroleum odor was noted near the current operating ASTs in the southeastern portion of the Property. Additionally, petroleum odors were observed in the active maintenance shop near the waste fluid collection, parts cleaners, and active maintenance areas.
Pools of Potentially Hazardous Liquid	A vehicle washing pit was observed within the southeastern portion of the Property. The water appeared turbid with no sheen or odor observed.
Drums	Numerous drums were observed throughout the Property. A majority appeared to store waste oil and other hazardous petroleum products. Two drums with soil cuttings from a prior subsurface investigation were observed with southern boundary of the Property.

FEATURE TYPE	OBSERVATIONS
Polychlorinated Biphenyls (PCBs) Containing Equipment	We observed two pole-mounted transformers on the northwestern corner of the Property and on the southern portion of the Property. One of the units appeared to be in poor condition; however, we did not observe signs of leaking or staining beneath the pole
Pits, Ponds, and Lagoons	A wash pit filled with turbid water was observed within the southeastern boundary of the Property associated with vehicle and machinery cleaning. No sheen or odor was observed.
Stained Soil/Pavement	We observed minor stains within the secondary containment of the operating ASTs. Minor stains beneath construction equipment were observed due to oil drippings. Minor staining with the maintenance warehouse and storage warehouses near drums, parts cleaners, waste oil collection systems, etc.
Stressed Vegetation	We did not observe significant vegetation throughout the Property.
Solid Waste/Debris	Various debris was observed throughout the Property in conjunction with facility operations. Three covered soil storage areas were observed.
Stockpiles/Fill Material	We did not observe stockpiles or fill material. Three covered soil storage areas were observed. Onsite personnel indicated that this material is collected from the site generally and the vehicle cleaning area specifically. Soil is stored temporarily, characterized for metals and petroleum hydrocarbons, and disposed of off-site.
Wastewater	No wastewater conveyance systems were observed at the Property during the reconnaissance. However, a large stormwater filtration system is operated at the northwestern corner of the Property. Two large poly water tanks and a container filled with a filtration system manage the water, prior to off-site discharge during rain events. An interceptor trench was created with conveyance piping to collect stormwater. The trench drains along the northern portion of the site at the edge of the asphalt and gravel portions of the Property. The piping conveys stormwater to the treatment system.
Wells	We observed six on-site groundwater monitoring wells and one off-site groundwater monitoring well.
Septic Systems	No septic systems were found within the Property during our site reconnaissance. It is likely there is a municipal sewer system in place for the operating buildings.

4.4 INTERIOR OBSERVATIONS

The buildings include two offices, a storage warehouse, and a maintenance warehouse. The contents of which were included in the descriptions provided above in Table 4.3-1. The warehouse stores materials and chemicals used for sale and for maintenance of equipment and vehicles completed in the maintenance shop. The maintenance shop contains large equipment and vehicles under active repair, waste material collection systems, parts cleaners, welders, tools, etc.

The Property is operated under a Spill Prevention Controls and Countermeasures (SPCC) plan. Sampling, storage, and stormwater management are all required as part of the plan. The SPCC plan is stored and available for inspection in the main office.

4.5 ASBESTOS, LEAD, AND PCB-CONTAINING MATERIALS

An asbestos, lead, and PCB-containing building material survey was not conducted as part of this assessment. Given the age of the existing structures, it is conceivable that asbestos, lead, and PCB-containing materials may exist within the structures.

5.0 INTERVIEWS

Ms. Susan Wilson of Resmark Equity Partners, LLC completed an environmental site questionnaire pertaining to user-related applicable environmental information regarding the Property. In the questionnaire, Ms. Wilson did not have specific knowledge of potentially environmentally related issues with the Property. Ms. Wilson is unaware of commonly known, reasonably ascertainable, or specialized knowledge indicative of releases or threatened releases that is material to the potential presence of RECs.

Ms. Darcy Horton completed a key-site manager environmental site assessment questionnaire pertaining to applicable past and present uses and physical characteristics of the Property and surrounding properties. In the questionnaire, Ms. Horton indicated the Property is used for heavy construction equipment sales/parts/service. In addition, Ms. Horton identified the following.

- Previous waste oil spill, which was mitigated.
- Five USTs were removed in 1989
- Six existing monitoring wells; two off-site, associated with former USTs
- Documented soil, groundwater, and soil gas impacts

The questionnaires are presented in Appendix G.

6.0 FINDINGS AND OPINIONS

This assessment included a review of local, state, tribal, and federal environmental record sources, standard historical sources, aerial photographs, fire insurance maps and physical setting sources. A reconnaissance of the Property was completed to review site use and current conditions to check for the storage, use, production, or disposal of hazardous or potentially hazardous materials and to conduct written/oral interviews with persons knowledgeable about current and past site use.

The site reconnaissance, records review, and review of regulatory databases maintained by county, state, tribal, and federal agencies have revealed evidence of soil, groundwater, and soil gas impacts at the Property in connection with former leaking underground storage tanks and hazardous materials handling. Regional Water Quality Control Board (RWQCB) GeoTracker cleanup case T0600100516 (under the name Nortrax West) is the open cleanup case (as of September 1992) pertaining to the Property.

Five underground storage tanks were formerly located at the Property. One 10,000-gallon diesel underground storage tank (UST), one 10,000-gallon gasoline UST, and two 500- or 550-gallon diesel USTs were formerly located in the eastern area of the 38683 Timber Street parcel. A former 500- or 550-gallon waste oil tank was located in the southern area of the parcel, south of the building, near Cedar Boulevard. An additional 500- or 550-gallon diesel UST was discovered in 1989. Four groundwater monitoring wells (MW-1 through MW-4) were first installed in the vicinity of the four known fuel USTs in 1986. All five USTs were removed in 1989. Groundwater monitoring

was conducted following installation of the monitoring wells and after the tanks were removed and indicated that the USTs had impacted the underlying soil and/or groundwater with petroleum hydrocarbons and volatile organic compounds.

Groundwater monitoring has been conducted quarterly or semi-annually during most years since removal of the tanks. The fuel USTs were generally associated with total petroleum hydrocarbon contamination in groundwater while the waste oil tank was generally associated with total petroleum hydrocarbon and volatile organic compound contamination in groundwater. In soil, TPH and VOC impacts have been sporadically detected, and minor heavy metal impacts to soil have also been noted.

Several recent soil, groundwater, and soil gas investigations have been conducted to provide additional characterization and address impediments to case closure. Soil sampling results, including those from ENGEO's August 2020 phase II investigation, have shown decreasing concentrations of TPH and VOCs, particularly near the former fuel USTs. Groundwater impacts appear to be localized to the immediate vicinity of the former tanks and continue to attenuate based on historical monitoring events.

Though soil and groundwater impacts appear to have attenuated and are unlikely to continue to contribute as a vapor intrusion source, soil gas concentrations at the Property remain elevated. PCE concentrations were significantly in exceedance of the RWQCB Environmental Screening Level (ESL) for all but one of 13 soil gas sample points assessed in ENGEO's August 2020 investigation. Soil gas impacts appear to the most concentrated in the vicinity of the former waste oil UST, though there is currently limited control on the extent of the PCE soil vapor plume, based on the data. Additional soil gas characterization has been recommended to determine the extent of the chlorinated solvent vapor plume.

ACWD has requested that an additional soil vapor investigation be conducted. ACWD cited the soil gas results of ENGEO's previous phase II investigation, noting that the elevated VOC concentrations may pose a risk to human health. ACWD noted that the extent of VOC contamination in soil vapor should be defined on-site and off-site, and any potential vapor intrusion to indoor air pathways should be evaluated. ENGEO submitted a workplan for additional soil gas investigation in March 2022 to address the additional soil gas sampling. The investigation has not been completed to date.

During the site reconnaissance, the following hazardous materials, petroleum-containing products, and other features of potential environmental concern were identified.

- Two active concrete above-ground storage tanks (ASTs) which contained diesel and used waste oil
- Uncovered and covered drums throughout the Property used to store cleaning solutions, hydraulic oil, antifreeze, waste gasoline, waste diesel, used antifreeze, used absorbent materials, used coolant, used solvents, used diesel, and other waste or unknown materials
- Large quantities of small quantity (5-gallon or less) chemicals mainly including engine coolant, hydraulic oil, engine oil, transmission oil, compression oil, and gear lubricant
- Small spray cans and other containers (1-gallon or less) of various lubricants and cleaners
- Four empty ASTs that formerly contained hydraulic fluid, SAE 10W-30 engine oil, hydraulic tractor fluid, and SAE 15W-40 engine oil

- A 270-gallon tote of FlocClear 2% BioPolymer is used to manage settlement of solids in the stormwater filtration system
- Acetylene and propane gas tanks
- Old battery storage
- Two pole-mounted transformers on the northwestern corner of the Property and on the southern portion of the Property
- Six on-site groundwater monitoring wells and one off-site groundwater monitoring wells

Several commercial/industrial businesses are located west-northwest of the Property. However, this assessment did not identify contaminated facilities within the appropriate American Society for Testing and Materials (ASTM) search distances that would reasonably be expected to impact the Property.

Based on the findings of this assessment, no controlled RECs or historical RECs were identified. The following REC was identified for the Property.

- Soil gas impacts remain elevated in the area of the former waste oil tank. PCE concentrations were significantly in exceedance of the residential ESL for all but one of 13 soil gas sample points assessed in ENGEO's August 2020 investigation. The site has not yet achieved closure for the former USTs from ACWD and RWQCB. The current ACWD-approved work plan should be implemented to determine the extent of soil gas impacts and potential remediation requirements.

Based on the review of regulatory databases and site reconnaissance, we present information on features of potential environmental concern that were either contained in the databases or observed on the Property. These features were not considered to be RECs. We briefly discuss each feature below.

- Given the age of the buildings on site, there is the potential for lead-based paint (LBP) and asbestos-containing material (ACM) to exist within building materials.
- Numerous chemicals are stored in drums and other containers on site that may have contributed to de minimis releases to soil. Oil impacts to the surface from heavy machinery were also observed during the site reconnaissance.

6.1 SIGNIFICANT DATA GAPS

It is our opinion that the findings of this study are based on a sufficient level of information obtained during our contracted scope of services to render a conclusion as to whether additional appropriate investigation is required to identify the presence or likely presence of a REC. Data gaps were not identified during this process.

6.2 SIGNIFICANT ASSUMPTIONS OR DEVIATIONS FROM ASTM STANDARD PRACTICE

There were no significant deviations from ASTM Standard Practice E1527-21 in the preparation of this report.

7.0 CONCLUSIONS

It is our opinion that the findings of this study are based on a sufficient level of information obtained during our contracted scope of services to render a conclusion as to whether additional appropriate investigation is required to identify the presence or likely presence of a REC.

We have performed a phase I environmental site assessment in general conformance with the scope and limitations of ASTM E1527-21 and the standards and practices of the All-Appropriate Inquiry – Final Rule (40 Code of Federal Regulations Part 312) of the Property. Any exception to, or deletions from this practice are described in Section 8.1 of the report.

This assessment has revealed evidence of RECs in connection with the Property, and additional soil gas sampling is recommended to address remaining impediments to closure.

8.0 LIMITATIONS

8.1 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

The professional staff at ENGEO strives to perform its services in a proper and professional manner with reasonable care and competence but is not infallible. The recommendations and conclusions presented in this report were based on the findings of our study, which were developed solely from the contracted services. The findings of the report are based in part on contracted database research, out-of-house reports, and personal communications. The opinions formed by ENGEO are based on the assumed accuracy of the relied upon data in conjunction with our relevant professional experience related to such data interpretation. We assume no liability for the validity of the materials relied upon in the preparation of this report.

This document must not be subject to unauthorized reuse; that is, reuse without written authorization of ENGEO. Such authorization is essential because it requires ENGEO to evaluate the document's applicability given new circumstances, not the least of which is passage of time. The findings from a phase I environmental site assessment are valid for 1 year after from the earliest date of the following components: records review, site reconnaissance, interviews, declaration by environmental professional. Updates of portions of the assessment may be necessary after a period of 180 days of the earliest date of the four components.

A more extensive assessment that would include a subsurface exploration with laboratory testing of soil, soil gas, and groundwater samples could provide more definitive information concerning site-specific conditions. If additional assessment activities are considered for the Property and if other entities are retained to provide such services, ENGEO cannot be held responsible for any and all claims arising from or resulting from the performance of such services by other persons or entities. ENGEO can also not be held responsible from any and all claims arising or resulting from clarifications, adjustments, modifications, discrepancies or other changes necessary to reflect changed field or other conditions.

8.2 SPECIAL TERMS AND CONDITIONS

We have prepared this report for the exclusive use of our client, Resmark Equity Partners, LLC. It is recognized and agreed that ENGEO has assumed responsibility only for undertaking the study for the Client. The responsibility for disclosures or reports to a third party and for remedial or mitigative action shall be solely that of the Client.

This phase I environmental site assessment is not intended to represent a complete soil, soil gas, or groundwater characterization, nor define the depth or extent of soil, soil gas, or groundwater contamination. It is intended to provide an evaluation of potential environmental concerns associated with the use of the Property. Laboratory testing of soil, soil gas, or groundwater samples was not within the scope of the contracted services. The assessment did not include an asbestos survey, an evaluation of lead-based paint, an inspection of light ballasts for polychlorinated biphenyls (PCBs), or a mold survey. A radon evaluation was not performed.

This report is based upon field and other conditions discovered at the time of preparation of ENGEO's assessment. Visual observations referenced in this report are intended only to represent conditions at the time of the reconnaissance. We would not be aware of site contamination, such as dumping and/or accidental spillage, which occurred subsequent to the reconnaissance conducted by ENGEO personnel.

SELECTED REFERENCES

ACWD, Request for Soil Gas Investigation, September 22, 2021.

California Department of Water Resources (http://www.water.ca.gov/waterdatalibrary/)

California Department of Public Health – Radon Program– (https://www.cdph.ca.gov/Programs/CEH/DRSEM/CDPH%20Document%20Library/EMB/Radon/Radon%20Test%20Results.pdf).

California Geologic Energy Management Division (CalGEM) (https://www.conservation.ca.gov/calgem)

CalGEM Well Finder (https://maps.conservation.ca.gov/doggr/wellfinder/#openModal/-118.94276/37.12009/6)

ENGEO, Phase I Environmental Site Assessment, 38600 Cedar Boulevard, Newark, California, April 7, 2020; Project No. 15799.001.000.

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Google Maps (http://maps.google.com).

Helley, E.J., and Miller, D.M; Geologic map of the Newark 7.5-minute quadrangle, Alameda County, California; 1992.

Hydro Analysis, Report of Subsurface Investigation, Nortrax West, 38600 Cedar Boulevard, Newark, California; November 16, 2004.

Hydro Analysis, Report of Subsurface Investigation, Nortrax West, 38600 Cedar Boulevard, Newark, California; November 30, 2007.

Ramboll, Site Characterization Report, 38600 Cedar Boulevard, Newark, California; September 2016.

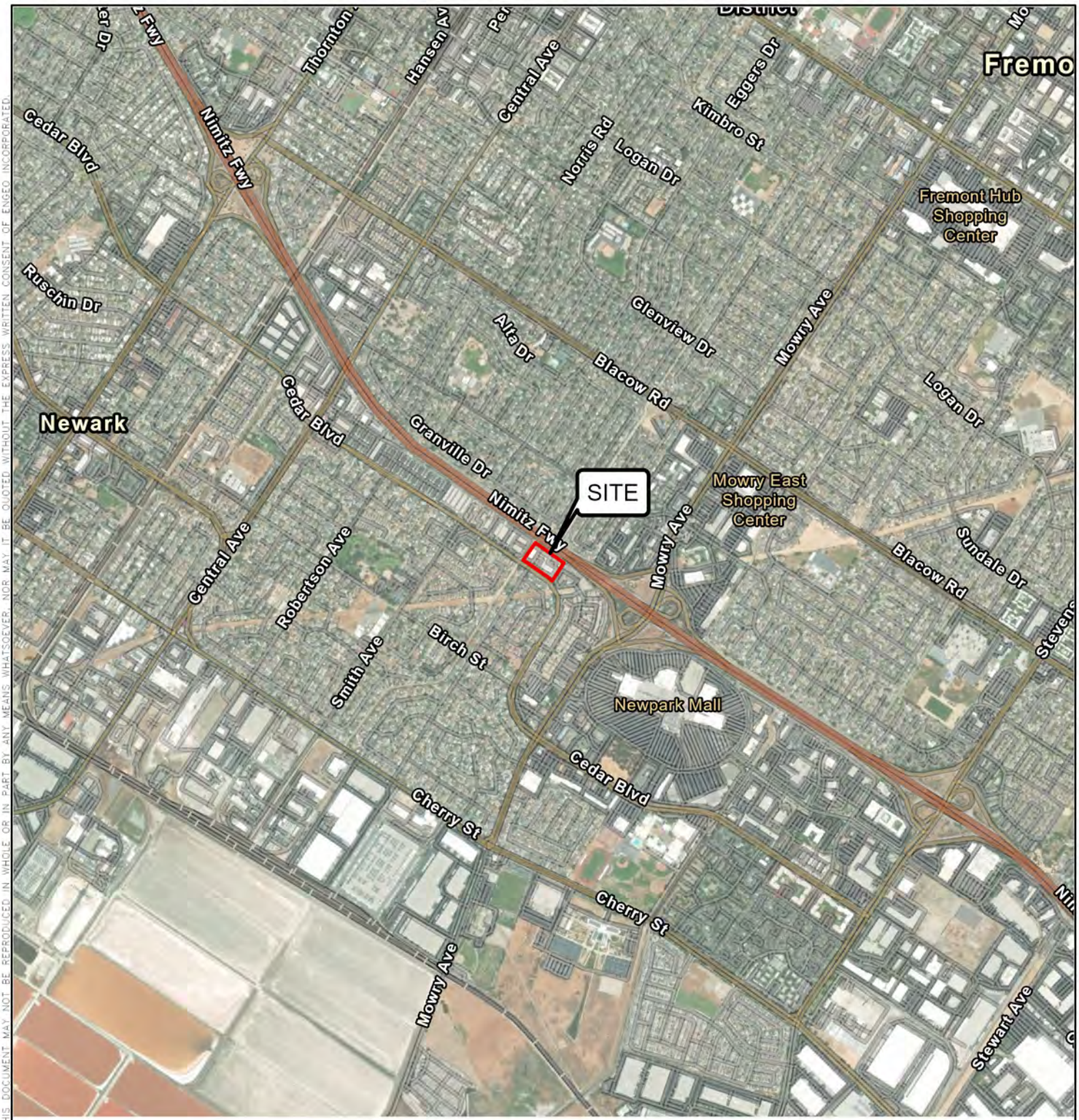
Stantec, Documentation of Shallow Soil Sample Collection and Soil Vapor Sampling; 38600 Cedar Boulevard; Newark, California; October 18, 2018.

TRC; First Semi-Annual 2018 Groundwater Monitoring Report; 38600 Cedar Boulevard, Newark, California; June 2018.



FIGURES

FIGURE 1: Vicinity Map
FIGURE 2: Site Plan
FIGURE 3: Assessor's Parcel Map
FIGURE 4: Site Photographs



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BASEMAP SOURCE: ESRI MAPPING SERVICE 2017

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VICINITY MAP
38600 CEDAR BOULEVARD
NEWARK, CALIFORNIA

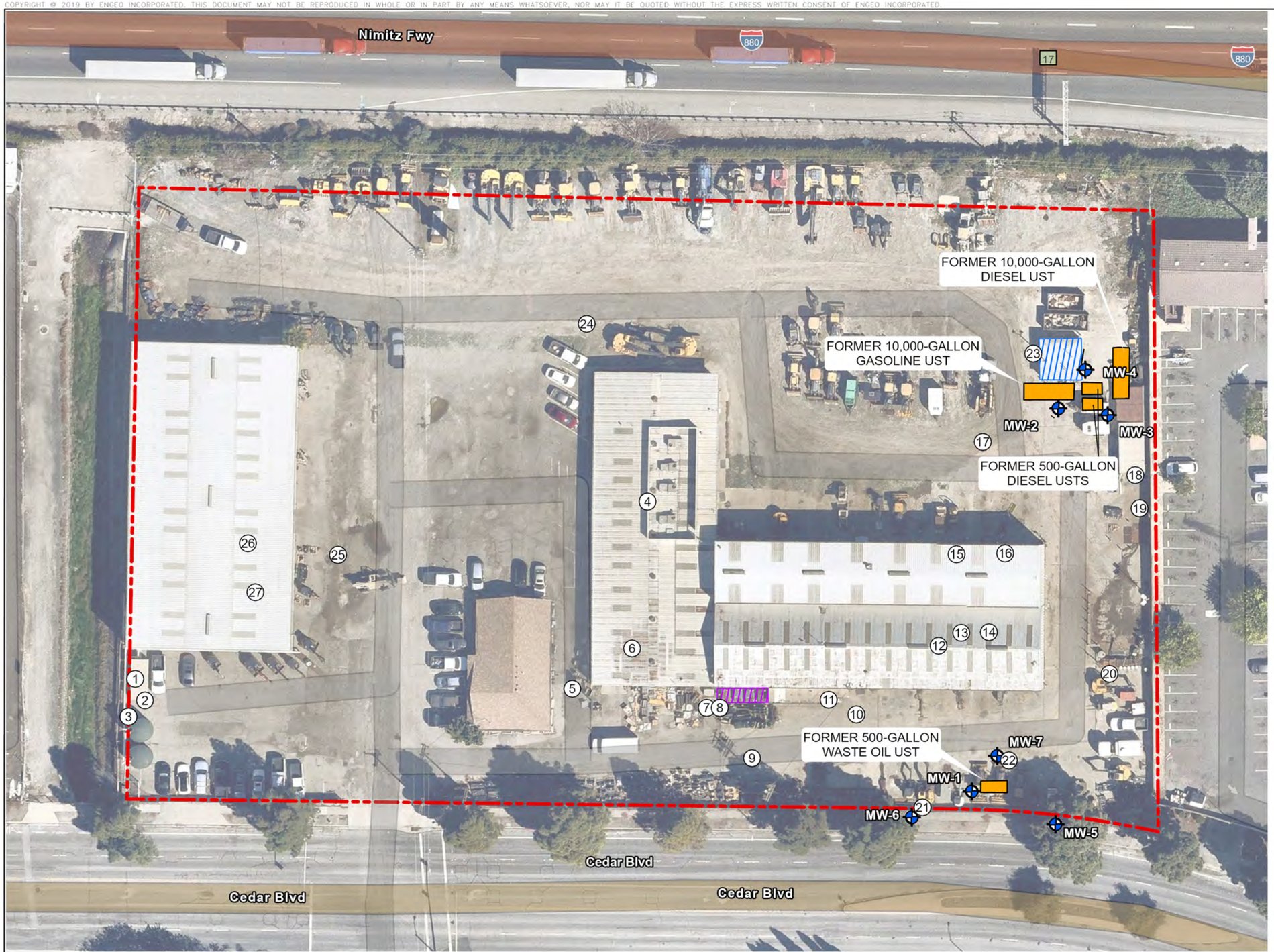
PROJECT NO. :	15799.003.000
SCALE:	AS SHOWN
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FIGURE NO. 1

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USER: MTORRES

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N

0 25 50

FEET

EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- MONITORING WELL
- (27) SITE PHOTO LOCATION
- NON-OPERATIONAL ABOVE-GROUND STORAGE TANKS
- OPERATIONAL ABOVE-GROUND STORAGE TANKS
- PROJECT SITE

BASE MAP SOURCE: NEARMAP MAPPING SERVICE 2022

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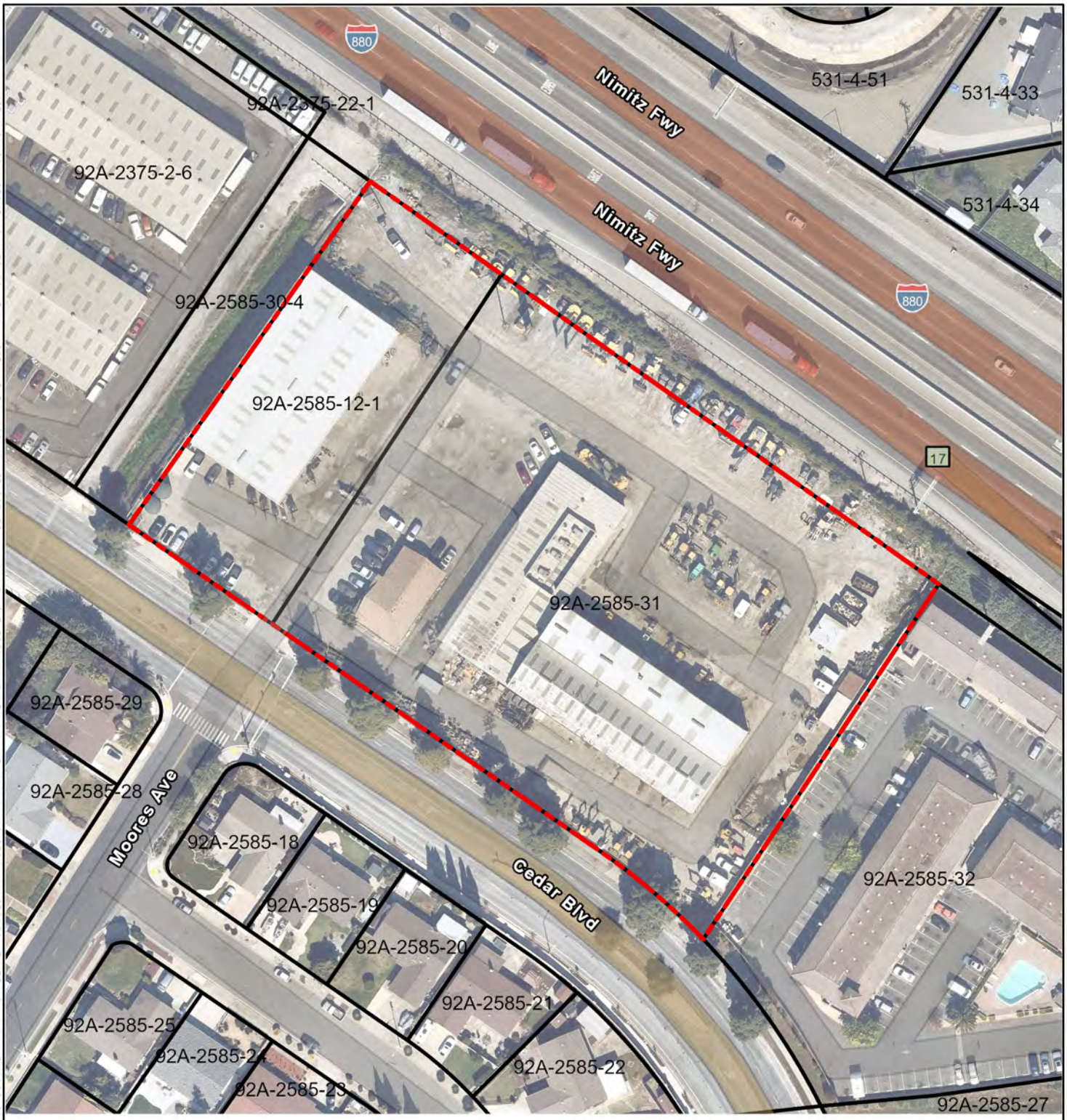
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SITE PLAN
38600 CEDAR BOULEVARD
NEWARK, CALIFORNIA

PROJECT NO. : 15799.003.000
SCALE: AS SHOWN
DRAWN BY: MAT
CHECKED BY: SPM

FIGURE NO. 2

ORIGINAL FIGURE PRINTED IN COLOR



EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

PROJECT SITE

PARCEL BOUNDARY

N

0 50 100

FEET

BASEMAP SOURCE: NEARMAP MAPPING SERVICE 2022 AND ALAMEDA COUNTY ASSESSOR'S OFFICE

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ASSESSOR'S PARCEL MAP

38600 CEDAR BOULEVARD

NEWARK, CALIFORNIA

PROJECT NO. :	15799.003.000
SCALE:	AS SHOWN
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FIGURE NO. 3

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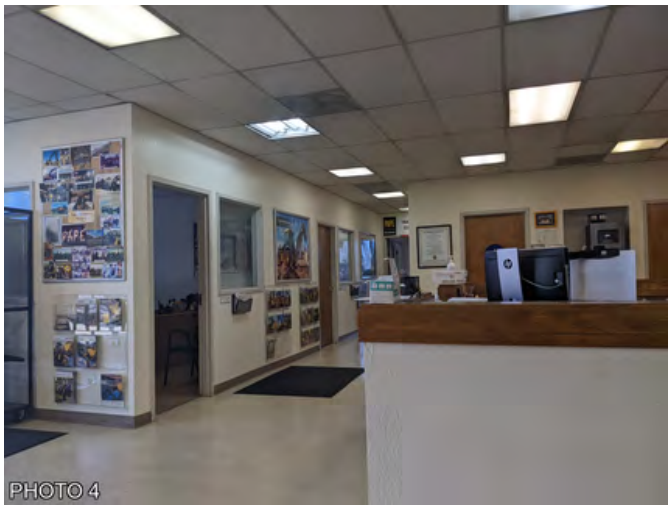
STORMWATER TREATMENT SYSTEM



FLOCULATING AGENT



LARGE POLY TANKS & PIPING



MAIN OFFICE



HAUDAULIC OIL DRUM



FLAMMABLE CABINET CONTENTS

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SITE PHOTOGRAPHS
38600 CEDAR BLVD
NEWARK, CALIFORNIA

PROJECT NUMBER:	**15799.003.000**
SCALE:	**NO SCALE**
DRAWN BY: **MAT**	CHECKED BY: **SPM**

FIGURE NO. 4A

ORIGINAL FIGURE PRINTED IN COLOR



BATTERY STORAGE



FORMER ASTS (NOT IN USE)



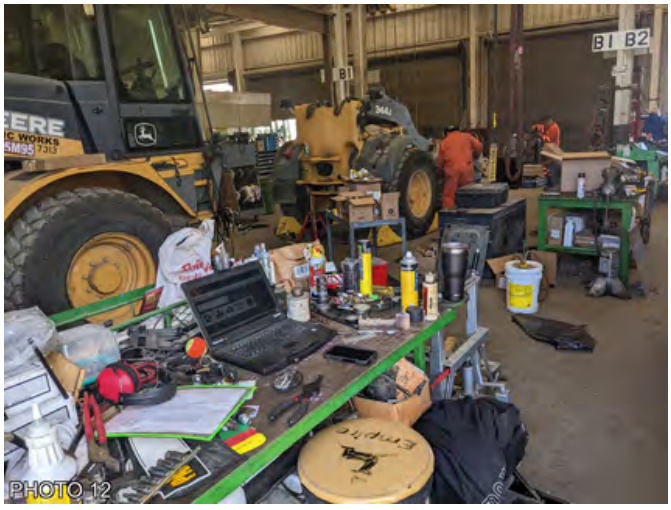
OUTDOOR EQUIPMENT STORAGE



USED DRUM STORAGE STRUCTURE



WASTE DRUM STORAGE



MAINTENANCE SHOP

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SITE PHOTOGRAPHS

38600 CEDAR BLVD

NEWARK, CALIFORNIA

PROJECT NUMBER: **15799.003.000**		FIGURE NO. 4B
SCALE: **NO SCALE**		
DRAWN BY: **MAT**	CHECKED BY: **SPM**	

ORIGINAL FIGURE PRINTED IN COLOR



PARTS CLEANERS & WASTE COLLECTION SYSTEM



WELDER



STAINING NEAR WASTE OIL COLLECTION



STAINING UNDER EQUIPMENT



OUTDOOR EQUIPMENT STORAGE



COVERED SOIL STORAGE AREA

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SITE PHOTOGRAPHS
38600 CEDAR BLVD
NEWARK, CALIFORNIA

PROJECT NUMBER: **15799.003.000**		FIGURE NO. 4C
SCALE: **NO SCALE**		
DRAWN BY: **MAT**	CHECKED BY: **SPM**	

ORIGINAL FIGURE PRINTED IN COLOR



VEHICLE WASHING AREA



USED DIESEL & GAS STORAGE



SOIL DRUMS



MONITORING WELL



DIESEL & WASTE OIL ASTS



INTERCEPTOR TRENCH FOR STORMWATER COLLECTION

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SITE PHOTOGRAPHS

38600 CEDAR BLVD

NEWARK, CALIFORNIA

PROJECT NUMBER: **15799.003.000**		FIGURE NO. 4D
SCALE: **NO SCALE**		
DRAWN BY: **MAT**	CHECKED BY: **SPM**	

ORIGINAL FIGURE PRINTED IN COLOR



OIL STORAGE



LEAKING DRUM STORED IN WAREHOUSE



MATERIAL & CHEMICAL STORAGE

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SITE PHOTOGRAPHS

38600 CEDAR BLVD

NEWARK, CALIFORNIA

PROJECT NUMBER: **15799.003.000**			FIGURE NO. 4E
SCALE: **NO SCALE**			
DRAWN BY: **MAT**	CHECKED BY: **SPM**		

ORIGINAL FIGURE PRINTED IN COLOR



APPENDIX A

ENVIRONMENTAL DATA RESOURCES, INC.

Radius Map Report

38600 Cedar Blvd
38600 Cedar Blvd
Newark, CA 94560

Inquiry Number: 06923688.2r
April 01, 2022

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	9
Orphan Summary	1101
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-6
Physical Setting Source Map	A-13
Physical Setting Source Map Findings	A-15
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

38600 CEDAR BLVD
NEWARK, CA 94560

COORDINATES

Latitude (North):	37.5320950 - 37ˆ 31' 55.54''
Longitude (West):	122.0080760 - 122ˆ 0' 29.07''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	587642.0
UTM Y (Meters):	4154159.8
Elevation:	29 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	12016457 NEWARK, CA
Version Date:	2018
Northeast Map:	12008762 NILES, CA
Version Date:	2018

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140606
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
38600 CEDAR BLVD
NEWARK, CA 94560

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	1X EMPIRE TRACTOR &	38600 CEDAR BLVD	HWTS		TP
A2		38600 CEDAR BLVD	ERNS		TP
A3	NORTRAX INC	38600 CEDAR BLVD	HAZNET, HWTS		TP
A4	NORTRAX INC	38600 CEDAR BLVD	RCRA NonGen / NLR		TP
A5	MORTON EQUIPMENT INC	38600 CEDAR BLVD	HIST UST		TP
A6	PAPE MACHINERY	38600 CEDAR BLVD	FINDS, ECHO		TP
A7	PAPE MACHINERY, INC.	38600 CEDAR BLVD	AST		TP
A8	EMPIRE TRACTOR COMPA	38600 CEDAR BLVD	RGA LUST		TP
A9	PAPE MACHINERY	38600 CEDAR BLVD	HAULERS		TP
A10	EMPIRE TRACTOR	38600 CEDAR BLVD	RGA LUST		TP
A11	SAME AS ABOVE	38600 CEDAR BLVD	HIST UST		TP
A12	PAP MACHINERY, INC.	38600 CEDAR BLVD	ECHO		TP
A13	PAP MACHINERY, INC.	38600 CEDAR BLVD	RCRA NonGen / NLR		TP
A14	EMPIRE TRACTOR CO.	38600 CEDAR BLVD	RGA LUST		TP
A15		38600 CEDAR BLVD.	CHMIRS		TP
A16	EMPIRE EQUIPMENT LP	38600 CEDAR BLVD	HAZNET, HWTS		TP
A17	EMPIRE TRACTOR	38600 CEDAR BLVD	LUST, Cortese, HAZNET, HIST CORTESE, CERS, HWTS		TP
A18	NORTRAX WEST	38600 CEDAR BLVD	RGA LUST		TP
A19	NORTRAX INC	38600 CEDAR BLVD	FINDS, ECHO		TP
A20	PAPE MACHINARY INC.	38600 CEDAR BLVD.	AST		TP
A21	PAPE MACHINERY	38600 CEDAR BLVD	NPDES, CIWQS		TP
A22	PAPE MACHINERY INC	38600 CEDAR BOULEVAR	NPDES, CIWQS, CERS		TP
A23	EMPIRE EQUIPMENT CO	38600 CEADAR BLVD	RCRA-SQG, FINDS, ECHO		TP
A24	PAPE MACHINERY, INC.	38600 CEDAR BLVD	CERS HAZ WASTE, CERS TANKS, CERS		TP
B25	BENCHMARK AUTOBODY I	38 456 CEDAR BLVD	RCRA-SQG, FINDS, ECHO	Higher	270, 0.051, WNW
B26	ZIPIN OUT AUTO SERVI	38472 CEDAR BLVD	RCRA NonGen / NLR	Higher	492, 0.093, WNW
B27	VIERRA P J INC	38592 CEDAR BLVD	RCRA NonGen / NLR, FINDS, ECHO	Higher	492, 0.093, WNW
B28	FREMONT PAVING	38370 CEDAR BLVD	LUST, CERS HAZ WASTE, Cortese, HIST CORTESE, CERS	Higher	492, 0.093, WNW
B29	FRANK FREITAS	38592 CEDAR BLVD	RCRA NonGen / NLR	Higher	492, 0.093, WNW
B30	FREMONT PAVING INC	38370 CEDAR BLVD	RCRA NonGen / NLR	Higher	492, 0.093, WNW
B31	NEWARK COMMERCIAL TR	38592 CEDAR BLVD UNI	RCRA NonGen / NLR	Higher	492, 0.093, WNW
B32	PHOENIX AUTO	38472 CEDAR BLVD	CERS HAZ WASTE, HAZNET, HWTS	Higher	492, 0.093, WNW
B33	APPLIED AIR FILTERS	38424 CEDAR BLVD	CERS HAZ WASTE, CERS	Higher	492, 0.093, WNW
B34	BAY AREA BODY SHOP	38472 CEDAR BLVD	RCRA-SQG, FINDS, ECHO	Higher	492, 0.093, WNW
B35	GOLDEN STATE AUTO CO	38594 CEDAR BLVD UNI	RCRA NonGen / NLR	Higher	492, 0.093, WNW
B36	CALIFORNIA CAMPER RE	38456 CEDAR BLVD	RCRA NonGen / NLR	Higher	492, 0.093, WNW
B37	BRACHO MARBLE & GRAN	38456 CEDAR BLVD	CERS HAZ WASTE, FINDS, ECHO, EMI, CERS	Higher	492, 0.093, WNW
B38	DBA ZIPIN OUT AUTO S	38592 CEDAR BLVD	RCRA NonGen / NLR	Higher	492, 0.093, WNW
B39	JINNSPEED LLC	38592 CEDAR BLVD STE	RCRA NonGen / NLR	Higher	492, 0.093, WNW

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
B40	APPLIED AIR FILTERS	38424 CEDAR BLVD	RCRA NonGen / NLR	Higher	492, 0.093, WNW
B41	BAY AREA BODY SHOP	38472 CEDAR BLVD	RCRA NonGen / NLR	Higher	492, 0.093, WNW
B42	BRACHO MARBLE	38456 CEDAR BLVD	RCRA NonGen / NLR	Higher	492, 0.093, WNW
B43	DON SIGNER BUICK	38478 CEDAR BLVD	RCRA-SQG, FINDS, ECHO	Higher	493, 0.093, WNW
44	BELLFLOWER WELL		PFAS	Lower	628, 0.119, SW
C45	FREMONT CHRISTIAN JU	38325 CEDAR BLVD	HIST UST	Higher	706, 0.134, WNW
C46	FREMONT PAVING CO IN	28370 CEDAR BLVD	HIST UST	Higher	751, 0.142, WNW
D47	ROSE SARMIENTO	38503 GRANVILLE DRIV	RCRA NonGen / NLR	Higher	952, 0.180, NNW
D48	MADELINE RABER	5385 EGGERS DR	RCRA NonGen / NLR	Higher	1139, 0.216, NNW
49	LUCILLE ALVAREZ-LEBO	38573 FARWELL DRIVE	RCRA NonGen / NLR	Higher	1156, 0.219, North
50	NA (HENRY SCHERING)	N.BOUND 880 @ MOWRY	Notify 65	Higher	1318, 0.250, ESE
E51	UNOCAL 7003	5789 MOWRY AVE	LUST, SWEEPS UST, HIST UST, HIST CORTESE	Higher	1351, 0.256, SSE
E52	NEWARK FIRESTONE	5795 MOWRY AVE	LUST, SWEEPS UST, HIST CORTESE, CERS, HWTS	Higher	1365, 0.259, SSE
E53	FIRESTONE STORE #74	5795 MOWRY AVE	Cortese	Higher	1365, 0.259, SSE
E54	UNOCAL 7003	5799 MOWRY AVE	LUST, Cortese, HAZNET, CERS, HWTS	Higher	1372, 0.260, SSE
55	ALAMEDA COUNTY FLOOD	MOWRY AVE	SWF/LF, CERS	Higher	1470, 0.278, South
F56	QUIK STOP #20	38995 FARWELL DR	LUST, Cortese, EMI	Higher	1529, 0.290, ENE
F57	QUIK STOP MARKET #20	38995 FARWELL DR	LUST, CERS HAZ WASTE, SWEEPS UST, CA FID UST, CERS...	Higher	1529, 0.290, ENE
F58	UNOCAL 4748	5301 MOWRY AVE	LUST, HIST CORTESE	Higher	1594, 0.302, ENE
F59	UNION OIL SS 4748	5301 MOWRY AVE	LUST, HIST UST, Cortese, CERS	Higher	1594, 0.302, ENE
G60	CHEVRON NO. 4230	5300 MOWRY AVE	LUST, SWEEPS UST, CA FID UST, CHMIRS, HIST...	Higher	1789, 0.339, East
G61	CHEVRON NO. 4230	5300 MOWRY AVE	LUST, Cortese	Higher	1789, 0.339, East
H62	J AND M CONCRETE CON	38288 CEDAR BLVD	LUST, HIST UST, Cortese, CERS	Higher	1862, 0.353, WNW
H63	J & M CONCRETE	38288 CEDAR BOULEVAR	LUST	Higher	1862, 0.353, WNW
H64	TIMBER STREET PROPER	37855, 37875 TIMBER	ENVIROSTOR, VCP	Higher	1987, 0.376, WNW
I65	SPARKLIZING CLEANERS	5200 MOWRY AVE	RCRA-SQG, CPS-SLIC, CERS HAZ WASTE, DRYCLEANERS,...	Higher	2183, 0.413, ENE
I66	STEVENSON PROPERTIES	5200 MOWRY AVE	CPS-SLIC	Higher	2183, 0.413, ENE
67	DODGE PROPERTY	5625 ROBERTSON AVE	LUST, Cortese, HIST CORTESE, CERS	Higher	2377, 0.450, WNW
J68	UNOCAL 7224	5100 MOWRY AVE	LUST, CERS	Higher	2418, 0.458, ENE
J69	UNOCAL SERVICE STATI	5100 MOWRY AVE	LUST, SWEEPS UST, CA FID UST, Cortese, HIST...	Higher	2418, 0.458, ENE
J70	STAR DRY CLEANERS	5133 MOWRY AVENUE	RCRA-SQG, CPS-SLIC, FINDS, ECHO, HAZNET, HWTS	Higher	2529, 0.479, ENE
J71	STAR CLEANERS	5133 MOWRY AVENUE	CPS-SLIC, CERS	Higher	2529, 0.479, ENE
72	JC CLEANERS	39253 CEDAR BLVD.	ENVIROSTOR, VCP	Lower	3136, 0.594, SSE
73	POMEGRANATE PROPERTY	6250 POMEGRANATE AVE	ENVIROSTOR, VCP	Lower	3583, 0.679, WSW
K74	PETERBILT MOTORS CO	38801 CHERRY ST	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-SQG,...	Lower	3712, 0.703, SSW
K75	PACCAR INC	38801 CHERRY STREET	CPS-SLIC, HWP	Lower	3712, 0.703, SSW
76	THORO SYSTEM PRODUCT	38403 CHERRY ST	ENVIROSTOR, LUST, Alameda County CS, CERS HAZ...	Lower	3759, 0.712, SW
77	SUN MICROSYSTEMS, NE	39001 CHERRY STREET	ENVIROSTOR	Lower	3961, 0.750, South
78	COLUMBUS COATED FABR	38083 CHERRY STREET	ENVIROSTOR	Lower	4166, 0.789, WSW

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79	SALINAS TRUCK STOP	39201 CHERRY	ENVIROSTOR, CHMIRS, HIST CORTESE, CERS	Lower	4301, 0.815, South
80	CERRO METAL PRODUCTS	6707 MOWRY	ENVIROSTOR, Cortese, ENF, HIST CORTESE	Lower	4713, 0.893, South
L81		37541 BLACOW ROAD	Notify 65	Higher	4805, 0.910, NNW
L82		37541 BLACOW RD.	Notify 65	Higher	4805, 0.910, NNW
L83	DESERET INDUSTRIES/T	37541 BLACOW ROAD	CPS-SLIC, EMI, Notify 65, CERS	Higher	4805, 0.910, NNW
84	STATE CLEANERS	4565 EGGERS DR	ENVIROSTOR, CPS-SLIC, VCP, DRYCLEANERS, HAZNET,...	Higher	5091, 0.964, NNE
M85	EVERGREEN OIL INC.	6880 SMITH AVE	ENVIROSTOR, CHMIRS, EMI, NPDES, WDS, CIWQS, CERS	Lower	5243, 0.993, SW
M86	SAFETY-KLEEN OF CALI	6880 SMITH AVE	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-LQG, US...	Lower	5243, 0.993, SW
87	OHLONE COMMUNITY COL	CHERRY STREET NEAR M	ENVIROSTOR, VCP, DEED	Lower	5255, 0.995, South

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
1X EMPIRE TRACTOR & 38600 CEDAR BLVD NEWARK, CA 94560	HWTS	N/A
38600 CEDAR BLVD 38600 CEDAR BLVD NEWARK, CA 94536	ERNS NRC Report #: 560862 Incident Date Time: 2001-03-17 10:00:00	N/A
NORTRAX INC 38600 CEDAR BLVD NEWARK, CA 94560	HAZNET GEPAID: CAL000359607 HWTS	N/A
NORTRAX INC 38600 CEDAR BLVD NEWARK, CA 94560	RCRA NonGen / NLR EPA ID:: CAL000359607	CAL000359607
MORTON EQUIPMENT INC 38600 CEDAR BLVD NEWARK, CA 94560	HIST UST	N/A
PAPE MACHINERY 38600 CEDAR BLVD NEWARK, CA 94560	FINDS Registry ID:: 110055782915 ECHO Registry ID: 110055782915	N/A
PAPE MACHINERY, INC. 38600 CEDAR BLVD NEWARK, CA 94560	AST Database: AST, Date of Government Version: 07/06/2016	N/A
EMPIRE TRACTOR COMPA 38600 CEDAR BLVD NEWARK, CA	RGA LUST	N/A
PAPE MACHINERY 38600 CEDAR BLVD NEWARK, CA	HAULERS Facility ID: 1494571	N/A
EMPIRE TRACTOR 38600 CEDAR BLVD NEWARK, CA	RGA LUST	N/A

EXECUTIVE SUMMARY

SAME AS ABOVE 38600 CEDAR BLVD NEWARK, CA 94560	HIST UST Facility Id: 00000010356	N/A
PAP MACHINERY, INC. 38600 CEDAR BLVD NEWARK, CA 94560	ECHO	N/A
PAP MACHINERY, INC. 38600 CEDAR BLVD NEWARK, CA 94560	RCRA NonGen / NLR EPA ID:: CAL000291924	CAL000291924
EMPIRE TRACTOR CO. 38600 CEDAR BLVD NEWARK, CA	RGA LUST	N/A
38600 CEDAR BLVD. 38600 CEDAR BLVD. NEWARK, CA 94536	CHMIRS OES Incident Number: 1-1816	N/A
EMPIRE EQUIPMENT LP 38600 CEDAR BLVD NEWARK, CA 94560	HAZNET GEPAID: CAD981658933 HWTS	N/A
EMPIRE TRACTOR 38600 CEDAR BLVD NEWARK, CA 94560	LUST Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 12/06/2021 Facility Id: 01-0563 Facility Status: Pollution Characterization Global Id: T0600100516 Status: Open - Site Assessment Cortese Cleanup Status: OPEN - SITE ASSESSMENT HAZNET GEPAID: CAL000291924 HIST CORTESE Reg Id: 01-0563 CERS HWTS	N/A
NORTRAX WEST 38600 CEDAR BLVD NEWARK, CA	RGA LUST	N/A
NORTRAX INC 38600 CEDAR BLVD NEWARK, CA 94560	FINDS	N/A

	Registry ID:: 110055825424 ECHO Registry ID: 110055825424	
PAPE MACHINARY INC. 38600 CEDAR BLVD. NEWARK, CA	AST Database: AST, Date of Government Version: 07/06/2016	N/A
PAPE MACHINERY 38600 CEDAR BLVD NEWARK, CA 94560	NPDES Facility Status: Terminated CIWQS	N/A
PAPE MACHINERY INC 38600 CEDAR BOULEVAR NEWARK, CA 94560	NPDES Facility Status: Active CIWQS CERS	N/A
EMPIRE EQUIPMENT CO 38600 CEADAR BLVD NEWARK, CA 94560	RCRA-SQG EPA ID:: CAD981658933 FINDS Registry ID:: 110002740712 ECHO Registry ID: 110002740712	CAD981658933
PAPE MACHINERY, INC. 38600 CEDAR BLVD NEWARK, CA 94560	CERS HAZ WASTE CERS TANKS CERS	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Lists of Federal RCRA TSD facilities

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE..... State Response Sites

Lists of state and tribal leaking storage tanks

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
Alameda County CS..... Contaminated Sites

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
UST..... Active UST Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

EXECUTIVE SUMMARY

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT	Waste Management Unit Database
SWRCY	Recycler Database
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
ODI	Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
HIST Cal-Sites	Historical Calsites Database
SCH	School Property Evaluation Program
CDL	Clandestine Drug Labs
Toxic Pits	Toxic Pits Cleanup Act Sites
US CDL	National Clandestine Laboratory Register
AQUEOUS FOAM	Former Fire Training Facility Assessments Listing

Local Lists of Registered Storage Tanks

SWEEPS UST	SWEEPS UST Listing
CA FID UST	Facility Inventory Database

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System

FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	ICE
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
WDR	Waste Discharge Requirements Listing
NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)
MINES MRDS	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---------- Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 02/28/2022 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PETERBILT MOTORS CO EPA ID:: CAD009120734	***38801 CHERRY ST***	***SSW 1/2 - 1 (0.703 mi.)***	***K74***	***406***
SAFETY-KLEEN OF CALI EPA ID:: CAD980887418	***6880 SMITH AVE***	***SW 1/2 - 1 (0.993 mi.)***	***M86***	***588***

Lists of Federal RCRA generators

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/28/2022 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BENCHMARK AUTOBODY I EPA ID:: CAD982023319	***38 456 CEDAR BLVD***	***WNW 0 - 1/8 (0.051 mi.)***	***B25***	***134***
BAY AREA BODY SHOP EPA ID:: CAD982319675	***38472 CEDAR BLVD***	***WNW 0 - 1/8 (0.093 mi.)***	***B34***	***221***
DON SIGNER BUICK EPA ID:: CAD982478679	***38478 CEDAR BLVD***	***WNW 0 - 1/8 (0.093 mi.)***	***B43***	***257***

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 10/25/2021 has revealed that there are 12 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TIMBER STREET PROPER Facility Id: 60001995 Status: No Further Action	***37855, 37875 TIMBER***	***WNW 1/4 - 1/2 (0.376 mi.)***	***H64***	***357***
STATE CLEANERS Facility Id: 60002272 Status: Active	***4565 EGGERS DR***	***NNE 1/2 - 1 (0.964 mi.)***	***84***	***523***

Lower Elevation	Address	Direction / Distance	Map ID	Page
JC CLEANERS Facility Id: 60002382 Status: Active	***39253 CEDAR BLVD.***	***SSE 1/2 - 1 (0.594 mi.)***	***72***	***397***
POMEGRANATE PROPERTY Facility Id: 60003107 Status: Active	***6250 POMEGRANATE AVE***	***WSW 1/2 - 1 (0.679 mi.)***	***73***	***402***
PETERBILT MOTORS CO Facility Id: 1500034 Facility Id: 80001595 Status: Refer: RWQCB	***38801 CHERRY ST***	***SSW 1/2 - 1 (0.703 mi.)***	***K74***	***406***
THORO SYSTEM PRODUCT Facility Id: 80001456 Status: No Further Action	***38403 CHERRY ST***	***SW 1/2 - 1 (0.712 mi.)***	***76***	***435***
SUN MICROSYSTEMS, NE	39001 CHERRY STREET	S 1/2 - 1 (0.750 mi.)	77	495

Facility Id: 60002089 Status: Refer: EPA				
COLUMBUS COATED FABR Facility Id: 1280013 Status: No Action Required	38083 CHERRY STREET	WSW 1/2 - 1 (0.789 mi.)	78	497
SALINAS TRUCK STOP Facility Id: 71002717 Status: Inactive - Needs Evaluation	***39201 CHERRY***	***S 1/2 - 1 (0.815 mi.)***	***79***	***498***
CERRO METAL PRODUCTS Facility Id: 1330035 Status: Refer: RWQCB	***6707 MOWRY***	***S 1/2 - 1 (0.893 mi.)***	***80***	***511***
EVERGREEN OIL INC. Facility Id: 80001757 Status: Active	***6880 SMITH AVE***	***SW 1/2 - 1 (0.993 mi.)***	***M85***	***561***
OHLONE COMMUNITY COL Facility Id: 1010013 Status: Certified / Operation & Maintenance	***CHERRY STREET NEAR M***	***S 1/2 - 1 (0.995 mi.)***	***87***	***1098***

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALAMEDA COUNTY FLOOD Database: SWF/LF (SWIS), Date of Government Version: 11/08/2021 Facility ID: 01-CR-0052 Operational Status: Closed Regulation Status: Unpermitted	***MOWRY AVE***	***S 1/4 - 1/2 (0.278 mi.)***	***55***	***294***

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 15 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FREMONT PAVING Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 12/06/2021	***38370 CEDAR BLVD***	***WNW 0 - 1/8 (0.093 mi.)***	***B28***	***143***

Facility Id: 01-2452
Facility Status: Leak being confirmed
Global Id: T0600102260
Status: Open - Remediation

UNOCAL 7003 ***5789 MOWRY AVE*** ***SSE 1/4 - 1/2 (0.256 mi.)*** ***E51*** ***278***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Id: 01-1608
Facility Status: Pollution Characterization

NEWARK FIRESTONE ***5795 MOWRY AVE*** ***SSE 1/4 - 1/2 (0.259 mi.)*** ***E52*** ***281***
Database: LUST, Date of Government Version: 12/06/2021
Global Id: T0600100496
Status: Completed - Case Closed

UNOCAL 7003 ***5799 MOWRY AVE*** ***SSE 1/4 - 1/2 (0.260 mi.)*** ***E54*** ***284***
Database: LUST, Date of Government Version: 12/06/2021
Global Id: T0600101483
Status: Open - Eligible for Closure

QUIK STOP #20 ***38995 FARWELL DR*** ***ENE 1/4 - 1/2 (0.290 mi.)*** ***F56*** ***296***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Id: 01-1215
Facility Status: Preliminary site assessment underway

QUIK STOP MARKET #20 ***38995 FARWELL DR*** ***ENE 1/4 - 1/2 (0.290 mi.)*** ***F57*** ***298***
Database: LUST, Date of Government Version: 12/06/2021
Global Id: T0600101117
Status: Completed - Case Closed

UNOCAL 4748 ***5301 MOWRY AVE*** ***ENE 1/4 - 1/2 (0.302 mi.)*** ***F58*** ***330***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Id: 01-1607
Facility Status: Pollution Characterization

UNION OIL SS 4748 ***5301 MOWRY AVE*** ***ENE 1/4 - 1/2 (0.302 mi.)*** ***F59*** ***330***
Database: LUST, Date of Government Version: 12/06/2021
Global Id: T0600101482
Status: Open - Assessment & Interim Remedial Action

CHEVRON NO. 4230 ***5300 MOWRY AVE*** ***E 1/4 - 1/2 (0.339 mi.)*** ***G60*** ***342***
Database: LUST, Date of Government Version: 12/06/2021
Global Id: T0600100346
Status: Completed - Case Closed

CHEVRON NO. 4230 ***5300 MOWRY AVE*** ***E 1/4 - 1/2 (0.339 mi.)*** ***G61*** ***351***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Id: 01-0377
Facility Status: Remedial action (cleanup) Underway

J AND M CONCRETE CON ***38288 CEDAR BLVD*** ***WNW 1/4 - 1/2 (0.353 mi.)*** ***H62*** ***352***
Database: LUST, Date of Government Version: 12/06/2021
Global Id: T0600173774
Status: Open - Remediation

J & M CONCRETE 38288 CEDAR BOULEVAR WNW 1/4 - 1/2 (0.353 mi.) H63 356
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Pollution Characterization

DODGE PROPERTY ***5625 ROBERTSON AVE*** ***WNW 1/4 - 1/2 (0.450 mi.)*** ***67*** ***377***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 12/06/2021
Facility Id: 01-2088

Facility Status: Case Closed
Global Id: T0600101919
date9: 1/21/1997
Status: Completed - Case Closed

UNOCAL 7224 ***5100 MOWRY AVE*** ***ENE 1/4 - 1/2 (0.458 mi.)*** ***J68*** ***380***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Id: 01-1605
Facility Status: Remediation Plan

UNOCAL SERVICE STATI ***5100 MOWRY AVE*** ***ENE 1/4 - 1/2 (0.458 mi.)*** ***J69*** ***381***
Database: LUST, Date of Government Version: 12/06/2021
Global Id: T0600101480
Status: Open - Remediation

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 4 CPS-SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPARKLIZING CLEANERS	***5200 MOWRY AVE***	***ENE 1/4 - 1/2 (0.413 mi.)***	***I65***	***364***
Database: CPS-SLIC, Date of Government Version: 12/06/2021 Facility Status: Open - Verification Monitoring Global Id: SL0600199502				
STEVENSON PROPERTIES	5200 MOWRY AVE	ENE 1/4 - 1/2 (0.413 mi.)	I66	376
Database: SLIC REG 2, Date of Government Version: 09/30/2004				
STAR DRY CLEANERS	***5133 MOWRY AVENUE***	***ENE 1/4 - 1/2 (0.479 mi.)***	***J70***	***387***
Database: CPS-SLIC, Date of Government Version: 12/06/2021 Facility Status: Completed - Case Closed Global Id: SL0600132373				
STAR CLEANERS	***5133 MOWRY AVENUE***	***ENE 1/4 - 1/2 (0.479 mi.)***	***J71***	***396***
Database: SLIC REG 2, Date of Government Version: 09/30/2004				

Lists of state and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 10/25/2021 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TIMBER STREET PROPER	***37855, 37875 TIMBER***	***WNW 1/4 - 1/2 (0.376 mi.)***	***H64***	***357***
Status: No Further Action Facility Id: 60001995				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 10/18/2021 has revealed that there are 4 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FREMONT PAVING	***38370 CEDAR BLVD***	***WNW 0 - 1/8 (0.093 mi.)***	***B28***	***143***
PHOENIX AUTO	***38472 CEDAR BLVD***	***WNW 0 - 1/8 (0.093 mi.)***	***B32***	***179***
APPLIED AIR FILTERS	***38424 CEDAR BLVD***	***WNW 0 - 1/8 (0.093 mi.)***	***B33***	***199***
BRACHO MARBLE & GRAN	***38456 CEDAR BLVD***	***WNW 0 - 1/8 (0.093 mi.)***	***B37***	***229***

PFAS: A listing of PFAS contaminated sites included in the GeoTracker database.

A review of the PFAS list, as provided by EDR, and dated 12/06/2021 has revealed that there is 1 PFAS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BELLFLOWER WELL		SW 0 - 1/8 (0.119 mi.)	44	260

Local Lists of Registered Storage Tanks

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FREMONT CHRISTIAN JU Facility Id: 00000057660	38325 CEDAR BLVD	WNW 1/8 - 1/4 (0.134 mi.)	C45	268
FREMONT PAVING CO IN Facility Id: 00000027543	28370 CEDAR BLVD	WNW 1/8 - 1/4 (0.142 mi.)	C46	269

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 02/28/2022 has revealed that

there are 15 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ZIPIN OUT AUTO SERVI EPA ID:: CAL000452214	38472 CEDAR BLVD	WNW 0 - 1/8 (0.093 mi.)	B26	137
VIERRA P J INC EPA ID:: CAD073928137	***38592 CEDAR BLVD***	***WNW 0 - 1/8 (0.093 mi.)***	***B27***	***140***
FRANK FREITAS EPA ID:: CAC003060209	38592 CEDAR BLVD	WNW 0 - 1/8 (0.093 mi.)	B29	171
FREMONT PAVING INC EPA ID:: CAL000240550	38370 CEDAR BLVD	WNW 0 - 1/8 (0.093 mi.)	B30	174
NEWARK COMMERCIAL TR EPA ID:: CAL000434908	38592 CEDAR BLVD UNI	WNW 0 - 1/8 (0.093 mi.)	B31	176
GOLDEN STATE AUTO CO EPA ID:: CAL000428994	38594 CEDAR BLVD UNI	WNW 0 - 1/8 (0.093 mi.)	B35	224
CALIFORNIA CAMPER RE EPA ID:: CAL000295505	38456 CEDAR BLVD	WNW 0 - 1/8 (0.093 mi.)	B36	226
DBA ZIPIN OUT AUTO S EPA ID:: CAL000378196	38592 CEDAR BLVD	WNW 0 - 1/8 (0.093 mi.)	B38	245
JINNSPEED LLC	38592 CEDAR BLVD STE	WNW 0 - 1/8 (0.093 mi.)	B39	247
APPLIED AIR FILTERS EPA ID:: CAL000375933	38424 CEDAR BLVD	WNW 0 - 1/8 (0.093 mi.)	B40	250
BAY AREA BODY SHOP EPA ID:: CAL000095629	38472 CEDAR BLVD	WNW 0 - 1/8 (0.093 mi.)	B41	252
BRACHO MARBLE EPA ID:: CAL000438660	38456 CEDAR BLVD	WNW 0 - 1/8 (0.093 mi.)	B42	255
ROSE SARMIENTO	38503 GRANVILLE DRIV	NNW 1/8 - 1/4 (0.180 mi.)	D47	270
MADELINE RABER EPA ID:: CAC003045506	5385 EGGERS DR	NNW 1/8 - 1/4 (0.216 mi.)	D48	273
LUCILLE ALVAREZ-LEBO	38573 FARWELL DRIVE	N 1/8 - 1/4 (0.219 mi.)	49	275

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 12/16/2021 has revealed that there are 9 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FREMONT PAVING Cleanup Status: OPEN - REMEDIATION	***38370 CEDAR BLVD***	***WNW 0 - 1/8 (0.093 mi.)***	***B28***	***143***
FIRESTONE STORE #74 Cleanup Status: COMPLETED - CASE CLOSED	5795 MOWRY AVE	SSE 1/4 - 1/2 (0.259 mi.)	E53	284
UNOCAL 7003 Cleanup Status: OPEN - ELIGIBLE FOR CLOSURE	***5799 MOWRY AVE***	***SSE 1/4 - 1/2 (0.260 mi.)***	***E54***	***284***
QUIK STOP #20 Cleanup Status: COMPLETED - CASE CLOSED	***38995 FARWELL DR***	***ENE 1/4 - 1/2 (0.290 mi.)***	***F56***	***296***
UNION OIL SS 4748	***5301 MOWRY AVE***	***ENE 1/4 - 1/2 (0.302 mi.)***	***F59***	***330***

Cleanup Status: OPEN - ASSESSMENT & INTERIM REMEDIAL ACTION

CHEVRON NO. 4230	***5300 MOWRY AVE***	***E 1/4 - 1/2 (0.339 mi.)***	***G61***	***351***
Cleanup Status: COMPLETED - CASE CLOSED				
J AND M CONCRETE CON	***38288 CEDAR BLVD***	***WNW 1/4 - 1/2 (0.353 mi.)***	***H62***	***352***
Cleanup Status: OPEN - REMEDIATION				
DODGE PROPERTY	***5625 ROBERTSON AVE***	***WNW 1/4 - 1/2 (0.450 mi.)***	***67***	***377***
Cleanup Status: COMPLETED - CASE CLOSED				
UNOCAL SERVICE STATI	***5100 MOWRY AVE***	***ENE 1/4 - 1/2 (0.458 mi.)***	***J69***	***381***
Cleanup Status: OPEN - REMEDIATION				

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 8 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FREMONT PAVING	***38370 CEDAR BLVD***	***WNW 0 - 1/8 (0.093 mi.)***	***B28***	***143***
Reg Id: 01-2452				
UNOCAL 7003	***5789 MOWRY AVE***	***SSE 1/4 - 1/2 (0.256 mi.)***	***E51***	***278***
Reg Id: 01-1608				
NEWARK FIRESTONE	***5795 MOWRY AVE***	***SSE 1/4 - 1/2 (0.259 mi.)***	***E52***	***281***
Reg Id: 01-0543				
QUIK STOP MARKET #20	***38995 FARWELL DR***	***ENE 1/4 - 1/2 (0.290 mi.)***	***F57***	***298***
Reg Id: 01-1215				
UNOCAL 4748	***5301 MOWRY AVE***	***ENE 1/4 - 1/2 (0.302 mi.)***	***F58***	***330***
Reg Id: 01-1607				
CHEVRON NO. 4230	***5300 MOWRY AVE***	***E 1/4 - 1/2 (0.339 mi.)***	***G60***	***342***
Reg Id: 01-0377				
DODGE PROPERTY	***5625 ROBERTSON AVE***	***WNW 1/4 - 1/2 (0.450 mi.)***	***67***	***377***
Reg Id: 01-2088				
UNOCAL SERVICE STATI	***5100 MOWRY AVE***	***ENE 1/4 - 1/2 (0.458 mi.)***	***J69***	***381***
Reg Id: 01-1605				

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 11/15/2021 has revealed that there are 3 HWP sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PACCAR INC	***38801 CHERRY STREET***	***SSW 1/2 - 1 (0.703 mi.)***	***K75***	***431***
EPA ID: CAD009120734				
Cleanup Status: CLOSED				
THORO SYSTEM PRODUCT	***38403 CHERRY ST***	***SW 1/2 - 1 (0.712 mi.)***	***76***	***435***

EPA ID: CAD066572363
Cleanup Status: PROTECTIVE FILER

SAFETY-KLEEN OF CALI	***6880 SMITH AVE***	***SW 1/2 - 1 (0.993 mi.)***	***M86***	***588***

EPA ID: CAD980887418
Cleanup Status: OPERATING PERMIT

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 12/13/2021 has revealed that there are 4 Notify 65 sites within approximately 1 mile of the target property.

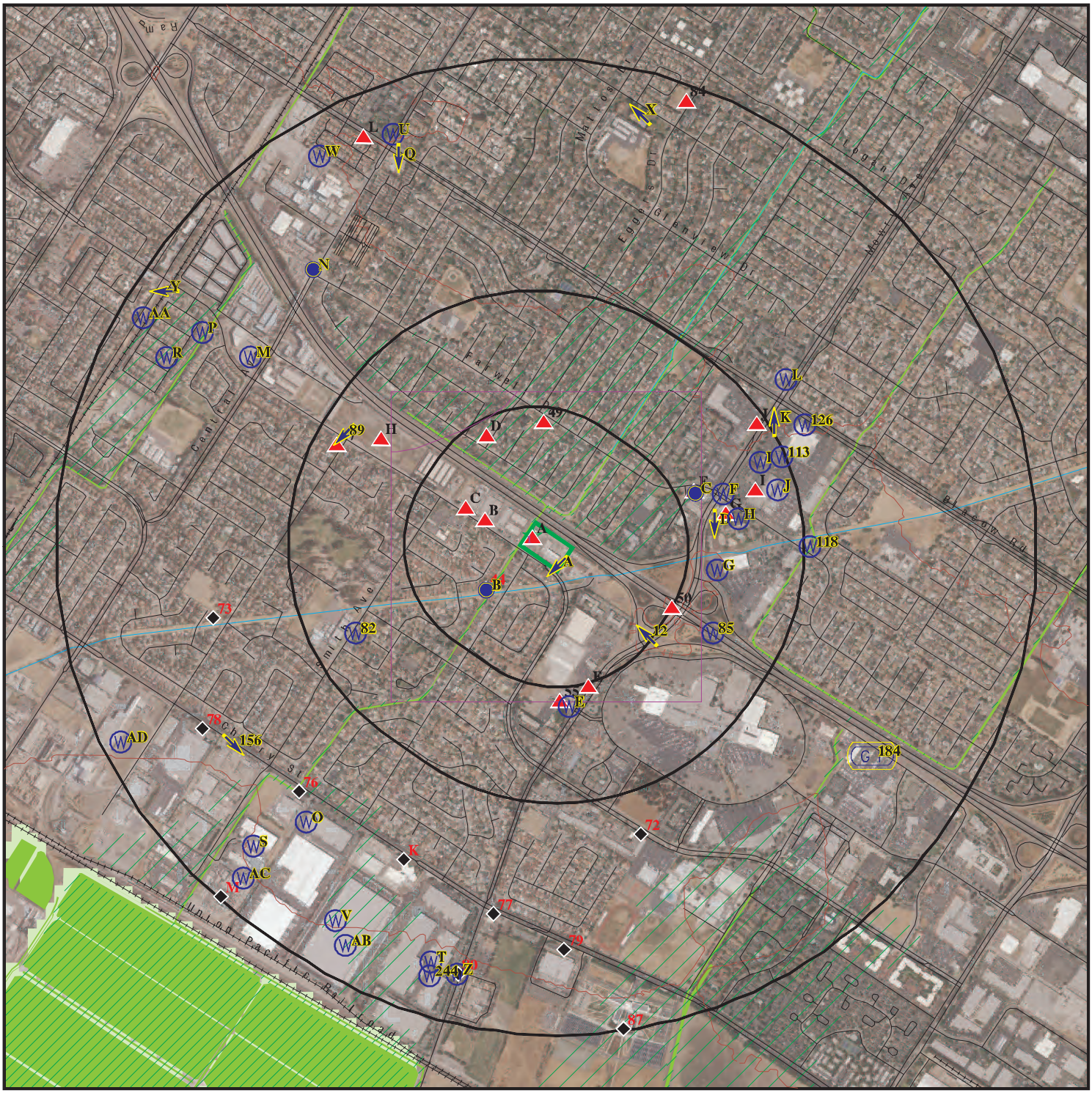
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NA (HENRY SCHERING)	N.BOUND 880 @ MOWRY	ESE 1/8 - 1/4 (0.250 mi.)	50	278
Not reported	37541 BLACOW ROAD	NNW 1/2 - 1 (0.910 mi.)	L81	520
Not reported	37541 BLACOW RD.	NNW 1/2 - 1 (0.910 mi.)	L82	521
DESERET INDUSTRIES/T	***37541 BLACOW ROAD***	***NNW 1/2 - 1 (0.910 mi.)***	***L83***	***521***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
CITY OF NEWARK	SWF/LF, CERS

OVERVIEW MAP - 06923688.2R



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	38600 Cedar Blvd	CLIENT:	Engeo Inc.
ADDRESS:	38600 Cedar Blvd Newark CA 94560	CONTACT:	Divya Bhargava
LAT/LONG:	37.532095 / 122.008076	INQUIRY#:	06923688.2r
		DATE:	April 01, 2022 3:13 pm

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DETAIL MAP - 06923688.2R



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	38600 Cedar Blvd	CLIENT:	Engeo Inc.
ADDRESS:	38600 Cedar Blvd Newark CA 94560	CONTACT:	Divya Bhargava
LAT/LONG:	37.532095 / 122.008076	INQUIRY#:	06923688.2r
		DATE:	April 01, 2022 3:13 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	2	NR	2
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250	1	3	0	NR	NR	NR	4
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001	1	0	NR	NR	NR	NR	1
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		0	0	1	11	NR	12
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	1	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
LUST	0.500	1	1	0	14	NR	NR	16
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	4	NR	NR	4
Alameda County CS	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250	2	0	0	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	1	NR	NR	1
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001	1	0	NR	NR	NR	NR	1
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250	1	4	0	NR	NR	NR	5
US CDL	0.001		0	NR	NR	NR	NR	0
AQUEOUS FOAM	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		1	0	0	NR	NR	1
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250	2	0	2	NR	NR	NR	4

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250	1	0	0	NR	NR	NR	1
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001	1	0	NR	NR	NR	NR	1
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	2	12	3	NR	NR	NR	17
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001	3	0	NR	NR	NR	NR	3
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ECHO	0.001	4	0	NR	NR	NR	NR	4
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500	1	1	0	8	NR	NR	10
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001	3	0	NR	NR	NR	NR	3
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500	1	1	0	7	NR	NR	9
HWP	1.000		0	0	0	3	NR	3
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001	2	0	NR	NR	NR	NR	2
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	1	0	3	NR	4
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001	2	0	NR	NR	NR	NR	2
CERS	0.001	3	0	NR	NR	NR	NR	3
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
HWTS	TP	4	NR	NR	NR	NR	NR	4
MINES MRDS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
RGA LUST	0.001	4	0	NR	NR	NR	NR	4
- Totals --		40	23	6	36	19	0	124

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **1X EMPIRE TRACTOR & EQUIPMENT CO** **HWTS** **S124943824**
Target **38600 CEDAR BLVD** **N/A**
Property **NEWARK, CA 94560**

Site 1 of 24 in cluster A

Actual: **29 ft.**

HWTS:

Name:	1X EMPIRE TRACTOR & EQUIPMENT CO
Address:	38600 CEDAR BLVD
Address 2:	Not reported
City,State,Zip:	NEWARK, CA 945600000
EPA ID:	CAP999001261
Inactive Date:	12/19/2000
Create Date:	03/25/1986
Last Act Date:	04/02/2003
Mailing Name:	Not reported
Mailing Address:	--
Mailing Address 2:	Not reported
Mailing City,State,Zip:	NEWARK, CA 945600000
Owner Name:	--
Owner Address:	--
Owner Address 2:	Not reported
Owner City,State,Zip:	--, 99 --
Contact Name:	MARK CALDWELL
Contact Address:	--
Contact Address 2:	Not reported
City,State,Zip:	--, 99 --

A2 **ERNS** **2001560862**
Target **38600 CEDAR BLVD** **N/A**
Property **NEWARK, CA 94536**

Site 2 of 24 in cluster A

Actual: **29 ft.**

Incident Commons:

NRC Report #:	560862
Description of Incident:	CALLER STATED SHE WITNESSED THE SUSPECTED RESPONSIBLE PARTY EARTH MOVING EQUIPMENT DRIPPING OIL ON THE SOIL AND PAVEMENT.
Type of Incident:	FIXED
Incident Cause:	OPERATOR ERROR
Incident Date Time:	2001-03-17 10:00:00
Incident DTG:	OCCURRED
Incident Location:	Not reported
Loaction Address:	38600 CEDAR BLVD
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	NEWARK
Location State:	CA
Location County:	ALAMEDA
Location Zip:	94536
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported

(Continued) **2001560862**

Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

NRC Report #:	560862
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	Not reported
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	Not reported
Pipeline Type:	Not reported
DOT Regulated:	Not reported
Pipeline Above Ground:	Not reported
Exposed Underwater:	Not reported
Pipeline Covered:	Not reported
Railroad Hotline:	Not reported
Grade Crossing:	Not reported
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Not reported
DOT Crossing Number:	Not reported
Brake Failure:	Not reported
Description of Tank:	Not reported
Tank Above Ground:	Not reported
Transportable Container:	Not reported
Tank Regulated:	Not reported
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported

(Continued) **2001560862**

Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	Not reported
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Not reported
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	560862
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported

(Continued) **2001560862**

Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	LAND
Additional Medium Info:	PAVEMENT / SOIL
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	NONE
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	CALLER HAD NO ADDITIONAL INFORMATION
State Agency Notified:	CA OES
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

(Continued) **2001560862**

Calls:

NRC Report #:	560862
Site ID:	2001560862
Date Time Received:	2001-03-27 14:47:20
Date Time Complete:	2001-03-27 14:56:42
Call Type:	INC
Responsible Company:	IMPERIAL TRACKOR
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	NEWARK
Responsible State:	CA
Responsible Zip:	94536
On Behalf:	N
Source:	TELEPHONE

Material Involved:

NRC Report #:	560862
Chris Code:	ODS
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	0
Unit of Measure:	UNKNOWN AMOUNT
Name of Material:	OIL: DIESEL
If Reached Water:	NO
Amount in Water:	Not reported
Unit of Measure Reach Water:	Not reported

NRC Report #:	560862
Chris Code:	OHY
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	0
Unit of Measure:	UNKNOWN AMOUNT
Name of Material:	HYDRAULIC OIL
If Reached Water:	NO
Amount in Water:	Not reported
Unit of Measure Reach Water:	Not reported

A3 **NORTRAX INC** **HAZNET** **S113160723**
Target **38600 CEDAR BLVD** **HWTS** **N/A**
Property **NEWARK, CA 94560**

Site 3 of 24 in cluster A

Actual:
29 ft.

HAZNET:

Name:	NORTRAX INC
Address:	38600 CEDAR BLVD
Address 2:	Not reported
City,State,Zip:	NEWARK, CA 94560
Contact:	James Larsen
Telephone:	6127702285
Mailing Name:	Not reported
Mailing Address:	1782 STERLING RD
Year:	2013
Gepaid:	CAL000359607
TSD EPA ID:	CAD008252405

NORTRAX INC (Continued) **S113160723**

CA Waste Code: 211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.9174

Year: 2011
Gepaid: CAL000359607
TSD EPA ID: CAD008252405
CA Waste Code: 211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.22935

Year: 2011
Gepaid: CAL000359607
TSD EPA ID: CAD008252405
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.462

Additional Info:
Year: 2011
Gen EPA ID: CAL000359607

Shipment Date: 20110506
Creation Date: 11/8/2011 18:30:21
Receipt Date: 20110510
Manifest ID: 004609204FLE
Trans EPA ID: CAR000206086
Trans Name: NORTH STATE ENVIRONMENTAL
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008252405
Trans Name: PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code: F001
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 0.22935
Waste Quantity: 55
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20110223
Creation Date: 8/26/2011 18:30:13
Receipt Date: 20110301
Manifest ID: 002517708FLE
Trans EPA ID: CAR000206086
Trans Name: NORTH STATE ENVIRONMENTAL

NORTRAX INC (Continued) **S113160723**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	F001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.462
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAL000359607
Shipment Date:	20130430
Creation Date:	10/8/2013 22:15:07
Receipt Date:	20130507
Manifest ID:	005188979FLE
Trans EPA ID:	CAR000206086
Trans Name:	NORTH STATE ENVIRONMENTAL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	NORTRAX INC
Address:	38600 CEDAR BLVD
Address 2:	Not reported
City,State,Zip:	NEWARK, CA 94560
EPA ID:	CAL000359607
Inactive Date:	06/30/2020
Create Date:	12/21/2010
Last Act Date:	01/04/2021

NORTRAX INC (Continued) **S113160723**

Mailing Name:	Not reported
Mailing Address:	1782 STERLING RD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	WACONIA, MN 553870000
Owner Name:	NORTRAX INC
Owner Address:	4042 PARK OAKS BLVD STE 200
Owner Address 2:	Not reported
Owner City,State,Zip:	TAMPA, FL 336100000
Contact Name:	JAMES LARSEN
Contact Address:	1782 STERLING RD
Contact Address 2:	Not reported
City,State,Zip:	WACONIA, MN 55387

NAICS:

EPA ID:	CAL000359607
Create Date:	2010-12-21 14:27:02.803
NAICS Code:	42183
NAICS Description:	Industrial Machinery and Equipment Wholesalers
Issued EPA ID Date:	2010-12-21 14:27:02.78700
Inactive Date:	2020-06-30 00:00:00
Facility Name:	NORTRAX INC
Facility Address:	38600 CEDAR BLVD
Facility Address 2:	Not reported
Facility City:	NEWARK
Facility County:	Not reported
Facility State:	CA
Facility Zip:	94560

A4 **NORTRAX INC** **RCRA NonGen / NLR** **1024828225**
Target **38600 CEDAR BLVD** **CAL000359607**
Property **NEWARK, CA 94560**

Site 4 of 24 in cluster A

Actual: 29 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		20101221
Handler Name:	NORTRAX INC	
Handler Address:		38600 CEDAR BLVD
Handler City,State,Zip:		NEWARK, CA 94560
EPA ID:		CAL000359607
Contact Name:		JAMES LARSEN
Contact Address:		1782 STERLING RD
Contact City,State,Zip:		WACONIA, MN 55387
Contact Telephone:		612-770-2285
Contact Fax:		952-442-1095
Contact Email:		JAMES.LARSEN@NORTRAX.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		1782 STERLING RD

NORTRAX INC (Continued) **1024828225**

Mailing City,State,Zip:	WACONIA, MN 55387-0000
Owner Name:	NORTRAX INC
Owner Type:	Other
Operator Name:	JAMES LARSEN
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No

NORTRAX INC (Continued) **1024828225**

Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: NORTRAX INC
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4042 PARK OAKS BLVD STE 200
Owner/Operator City,State,Zip: TAMPA, FL 33610-0000
Owner/Operator Telephone: 612-770-2285
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: JAMES LARSEN
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1782 STERLING RD
Owner/Operator City,State,Zip: WACONIA, MN 55387
Owner/Operator Telephone: 612-770-2285
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20101221
Handler Name: NORTRAX INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 42183
NAICS Description: INDUSTRIAL MACHINERY AND EQUIPMENT WHOLESALERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A5 **MORTON EQUIPMENT INC** **HIST UST** **S113136272**
Target **38600 CEDAR BLVD** **N/A**
Property **NEWARK, CA 94560**

Site 5 of 24 in cluster A

Actual: **29 ft.**

HIST UST:

Name:	MORTON EQUIPMENT INC
Address:	38600 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
File Number:	0003603C
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0003603C.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

A6 **PAPE MACHINERY** **FINDS** **1016428138**
Target **38600 CEDAR BLVD** **ECHO** **N/A**
Property **NEWARK, CA 94560**

Site 6 of 24 in cluster A

Actual: **29 ft.**

FINDS:
Registry ID: 110055782915

Click Here:

Environmental Interest/Information System:
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1016428138

PAPE MACHINERY (Continued) **1016428138**

Registry ID:	110055782915
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110055782915
Name:	PAPE MACHINERY
Address:	38600 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560

A7 **PAPE MACHINERY, INC.** **AST** **A100423152**
Target Property **38600 CEDAR BLVD** **N/A**
NEWARK, CA 94560

Site 7 of 24 in cluster A

Actual: 29 ft.

AST:

Name:	PAPE MACHINERY, INC.
Address:	38600 CEDAR BLVD
City/Zip:	NEWARK,94560
Certified Unified Program Agencies:	Not reported
Owner:	Pap Group, Inc.
Total Gallons:	Not reported
CERSID:	10418017
Facility ID:	Not reported
Business Name:	Pape Machinery, Inc.
Phone:	(510) 790-3600
Fax:	(510)790-9120
Mailing Address:	38600 Cedar Blvd
Mailing Address City:	Newark
Mailing Address State:	CA
Mailing Address Zip Code:	94560
Operator Name:	Pap Machinery
Operator Phone:	(510) 790-3600
Owner Phone:	(541) 341-3344
Owner Mail Address:	P.O. Box 407
Owner State:	OR
Owner Zip Code:	97440
Owner Country:	United States
Property Owner Name:	John and Marion Horton Revocable Inter Vivos Trust
Property Owner Phone:	Not reported
Property Owner Mailing Address:	710 Sunset Drive
Property Owner City:	Capitola
Property Owner Stat :	CA
Property Owner Zip Code:	95010
Property Owner Country:	United States
EPAID:	CAL000291924

A8 **EMPIRE TRACTOR COMPANY** **RGA LUST** **S114614682**
Target Property **38600 CEDAR BLVD** **N/A**
NEWARK, CA

Site 8 of 24 in cluster A

Actual: 29 ft.

RGA LUST:

Name:	EMPIRE TRACTOR COMPANY
Address:	38600 CEDAR BLVD
City:	NEWARK
State:	NEWARK

2002 EMPIRE TRACTOR COMPANY 38600 CEDAR BLVD

EMPIRE TRACTOR COMPANY (Continued) **S114614682**

Name:	EMPIRE TRACTOR COMPANY		
Address:	38600 CEDAR BLVD		
City:	NEWARK		
State:	NEWARK		
	2001	EMPIRE TRACTOR COMPANY	38600 CEDAR BLVD
Name:	EMPIRE TRACTOR COMPANY		
Address:	38600 CEDAR BLVD		
City:	NEWARK		
State:	NEWARK		
	2000	EMPIRE TRACTOR COMPANY	38600 CEDAR BLVD
Name:	EMPIRE TRACTOR COMPANY		
Address:	38600 CEDAR BLVD		
City:	NEWARK		
State:	NEWARK		
	1998	EMPIRE TRACTOR COMPANY	38600 CEDAR BLVD
Name:	EMPIRE TRACTOR COMPANY		
Address:	38600 CEDAR BLVD		
City:	NEWARK		
State:	NEWARK		
	1997	EMPIRE TRACTOR COMPANY	38600 CEDAR BLVD

A9 **PAPE MACHINERY** **HAULERS** **S127788519**
Target **38600 CEDAR BLVD** **N/A**
Property **NEWARK, CA**

Site 9 of 24 in cluster A

Actual: **29 ft.**

HAULERS:

Name:	PAPE MACHINERY
Address:	38600 CEDAR BLVD
City,State,Zip:	NEWARK, CA
Facility ID:	1494571
Facility Phone:	(510) 790-3600
Business Email Address:	dquillen@papemachinery.com
Contact Person:	Don Quillen
Mailing Address:	38600 Cedar Blvd
Mailing City:	Newark
Mailing State:	CA
Mailing Zip:	94560
Mailing County:	Alameda
Mailing Phone:	Not reported
Current Status:	Active
Current Hauler Status:	Not reported
Accepting Tires From Public:	Not reported
Regulatory Status Last Changed:	Not reported
Business Types:	Not reported

A10 **EMPIRE TRACTOR** **RGA LUST** **S114614687**
Target **38600 CEDAR BLVD** **N/A**
Property **NEWARK, CA**

Site 10 of 24 in cluster A

Actual: **29 ft.**

RGA LUST:

Name:	EMPIRE TRACTOR		
Address:	38600 CEDAR BLVD		
City:	NEWARK		
State:	NEWARK		
	2008	EMPIRE TRACTOR	38600 CEDAR BLVD
Name:	EMPIRE TRACTOR		
Address:	38600 CEDAR BLVD		
City:	NEWARK		
State:	NEWARK		
	2007	EMPIRE TRACTOR	38600 CEDAR BLVD
Name:	EMPIRE TRACTOR		
Address:	38600 CEDAR BLVD		
City:	NEWARK		
State:	NEWARK		
	2006	EMPIRE TRACTOR	38600 CEDAR BLVD
Name:	EMPIRE TRACTOR		
Address:	38600 CEDAR BLVD		
City:	NEWARK		
State:	NEWARK		
	2005	EMPIRE TRACTOR	38600 CEDAR BLVD
Name:	EMPIRE TRACTOR		
Address:	38600 CEDAR BLVD		
City:	NEWARK		
State:	NEWARK		
	2003	EMPIRE TRACTOR	38600 CEDAR BLVD

A11 **SAME AS ABOVE** **HIST UST** **U001597790**
Target **38600 CEDAR BLVD** **N/A**
Property **NEWARK, CA 94560**

Site 11 of 24 in cluster A

Actual: **29 ft.**

HIST UST:

Name:	SAME AS ABOVE
Address:	38600 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000010356
Facility Type:	Other
Other Type:	CONSTRUCTION EQUIP.
Contact Name:	JOHN R. HORTON
Telephone:	4157938282
Owner Name:	HORTON EQUIPMENT, INC.
Owner Address:	38600 CEDAR BLVD.
Owner City,St,Zip:	NEWARK, CA 94560
Total Tanks:	0003
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00010500

SAME AS ABOVE (Continued) **U001597790**

Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00010500
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

A12 **PAP MACHINERY, INC.** **ECHO** **1025946352**
Target **38600 CEDAR BLVD** **N/A**
Property **NEWARK, CA 94560**

Site 12 of 24 in cluster A

Actual: **29 ft.**

ECHO:

Envid:	1025946352
Registry ID:	Not reported
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=CAL000291924
Name:	PAP MACHINERY, INC.
Address:	38600 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560-4800

A13 **PAP MACHINERY, INC.** **RCRA NonGen / NLR** **1024810859**
Target **38600 CEDAR BLVD** **CAL000291924**
Property **NEWARK, CA 94560**

Site 13 of 24 in cluster A

Actual: **29 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20050307
Handler Name:	PAP MACHINERY, INC.	
Handler Address:		38600 CEDAR BLVD
Handler City,State,Zip:		NEWARK, CA 94560-4800
EPA ID:		CAL000291924
Contact Name:		DAN RADONSKI
Contact Address:		PO BOX 407
Contact City,State,Zip:		EUGENE, OR 97440
Contact Telephone:		541-341-3344
Contact Fax:		541-633-7530
Contact Email:		DRADONSKI@PAPE.COM
Contact Title:		Not reported

PAP MACHINERY, INC. (Continued) **1024810859**

EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 407
Mailing City,State,Zip:	EUGENE, OR 97440-0000
Owner Name:	THE PAP GROUP INC
Owner Type:	Other
Operator Name:	DAN RADONSKI
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported

PAP MACHINERY, INC. (Continued) **1024810859**

Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	THE PAP GROUP INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 407
Owner/Operator City,State,Zip:	EUGENE, OR 97440-0000
Owner/Operator Telephone:	541-341-3344
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DAN RADONSKI
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 407
Owner/Operator City,State,Zip:	EUGENE, OR 97440
Owner/Operator Telephone:	541-341-3344
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20050307
Handler Name: PAP MACHINERY, INC.	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	42181

PAP MACHINERY, INC. (Continued) **1024810859**

NAICS Description: CONSTRUCTION AND MINING (EXCEPT OIL WELL) MACHINERY AND EQUIPMENT WHOLESALERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A14 **EMPIRE TRACTOR CO.** **RGA LUST** **S114614681**
Target **38600 CEDAR BLVD** **N/A**
Property **NEWARK, CA**

Site 14 of 24 in cluster A

Actual: **29 ft.**

RGA LUST:
Name: EMPIRE TRACTOR CO.
Address: 38600 CEDAR BLVD
City: NEWARK
State: NEWARK
1996 EMPIRE TRACTOR CO. 38600 CEDAR BLVD
Name: EMPIRE TRACTOR CO.
Address: 38600 CEDAR BLVD
City: NEWARK
State: NEWARK
1995 EMPIRE TRACTOR CO. 38600 CEDAR BLVD
Name: EMPIRE TRACTOR CO.
Address: 38600 CEDAR BLVD
City: NEWARK
State: NEWARK
1994 EMPIRE TRACTOR CO. 38600 CEDAR BLVD
Name: EMPIRE TRACTOR CO.
Address: 38600 CEDAR BLVD
City: NEWARK
State: NEWARK
1993 EMPIRE TRACTOR CO. 38600 CEDAR BLVD

A15 **CHMIRS** **S105675938**
Target **38600 CEDAR BLVD.** **N/A**
Property **NEWARK, CA 94536**

Site 15 of 24 in cluster A

Actual: **29 ft.**

CHMIRS:
Name: Not reported
Address: 38600 CEDAR BLVD.
City,State,Zip: NEWARK, CA 94536
OES Incident Number: 1-1816
OES notification: 03/27/2001
OES Date: Not reported
OES Time: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported

(Continued) **S105675938**

Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	NRC
Incident Date:	3/17/200112:00:00 AM
Admin Agency:	Newark Fire Department
Amount:	Not reported
Contained:	Unknown
Site Type:	Merchant/Business
E Date:	Not reported
Substance:	DieselHydraulic Oil
Unknown:	Unk
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported

(Continued) **S105675938**

Description: Caller stated she witnessed the suspected responsible party earth moving equipment dripping oil on the soil and pavement

---

A16 **EMPIRE EQUIPMENT LP DBA NORTRAX** **HAZNET** **S123816325**
Target **38600 CEDAR BLVD** **HWTS** **N/A**
Property **NEWARK, CA 94560**

Site 16 of 24 in cluster A

Actual: **29 ft.**

HAZNET:

Name:	EMPIRE EQUIPMENT LP DBA NORTRAX
Address:	38600 CEDAR BLVD
Address 2:	Not reported
City,State,Zip:	NEWARK, CA 945600000
Contact:	ALAN GENOS BRANCH MANAGER
Telephone:	5107903600
Mailing Name:	Not reported
Mailing Address:	38600 CEDAR BLVD
Year:	2005
Gepaid:	CAD981658933
TSD EPA ID:	NVD980895338
CA Waste Code:	791 - Liquids with pH <= 2
Disposal Method:	T01 - Treatment, Tank
Tons:	0.1668
Year:	2003
Gepaid:	CAD981658933
TSD EPA ID:	WAD991281767
CA Waste Code:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	R01 - Recycler
Tons:	0.066
Year:	2001
Gepaid:	CAD981658933
TSD EPA ID:	CAD980887418
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	R01 - Recycler
Tons:	1.064
Year:	2000
Gepaid:	CAD981658933
TSD EPA ID:	CAD980887418
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	R01 - Recycler
Tons:	6.3156
Year:	2000
Gepaid:	CAD981658933
TSD EPA ID:	CAD980887418
CA Waste Code:	-
Disposal Method:	-
Tons:	0.0125
Year:	2000
Gepaid:	CAD981658933
TSD EPA ID:	CAD059494310

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H01 - Transfer Station
Tons: 0.5

Year: 2000
Gepaid: CAD981658933
TSD EPA ID: CAD982446874
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H01 - Transfer Station
Tons: 0.336

Year: 1999
Gepaid: CAD981658933
TSD EPA ID: CAD982446874
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H01 - Transfer Station
Tons: 0.924

Year: 1999
Gepaid: CAD981658933
TSD EPA ID: CAD980887418
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 3.4922

Year: 1999
Gepaid: CAD981658933
TSD EPA ID: CAD982446874
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: -
Tons: 0.588

Click this hyperlink while viewing on your computer to access
20 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2001
Gen EPA ID: CAD981658933

Shipment Date: 20010306
Creation Date: 5/16/2001 0:00:00
Receipt Date: 20010321
Manifest ID: 98817369
Trans EPA ID: CAD981658933
Trans Name: Not reported
Trans 2 EPA ID: CAD982413262
Trans 2 Name: Not reported
TSDF EPA ID: CAD980887418
Trans Name: Not reported
TSDF Alt EPA ID: CAD980887418
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

Meth Code:	R01 - Recycler
Quantity Tons:	0.019
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010206
Creation Date:	4/30/2001 0:00:00
Receipt Date:	20010215
Manifest ID:	98817400
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.1444
Waste Quantity:	38
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010129
Creation Date:	4/30/2001 0:00:00
Receipt Date:	20010215
Manifest ID:	98817389
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0494
Waste Quantity:	13
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

Shipment Date:	20010124
Creation Date:	4/30/2001 0:00:00
Receipt Date:	20010215
Manifest ID:	98817387
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4636
Waste Quantity:	122
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010123
Creation Date:	4/30/2001 0:00:00
Receipt Date:	20010215
Manifest ID:	98817386
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.038
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010115
Creation Date:	4/9/2001 0:00:00
Receipt Date:	20010124
Manifest ID:	98817401
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0912
Waste Quantity:	24
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010112
Creation Date:	4/9/2001 0:00:00
Receipt Date:	20010124
Manifest ID:	98817383
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0722
Waste Quantity:	19
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010110
Creation Date:	4/9/2001 0:00:00
Receipt Date:	20010124
Manifest ID:	98817359
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0114
Waste Quantity:	3
Quantity Unit:	G

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010103
Creation Date:	4/9/2001 0:00:00
Receipt Date:	20010124
Manifest ID:	98817381
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.1748
Waste Quantity:	46
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2003
Gen EPA ID:	CAD981658933
Shipment Date:	20030224
Creation Date:	5/19/2003 18:32:02
Receipt Date:	20030306
Manifest ID:	22473253
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	CAD063547996
Trans 2 Name:	Not reported
TSDF EPA ID:	WAD991281767
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.066
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

Additional Info:

Year:	1993
Gen EPA ID:	CAD981658933
Shipment Date:	19930728
Creation Date:	9/12/1995 0:00:00
Receipt Date:	19930728
Manifest ID:	93299386
Trans EPA ID:	CAD980695761
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.84
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1996
Gen EPA ID:	CAD981658933
Shipment Date:	19960919
Creation Date:	6/26/1997 0:00:00
Receipt Date:	19960919
Manifest ID:	96178234
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.504
Waste Quantity:	120
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

Shipment Date:	19960117
Creation Date:	10/9/1996 0:00:00
Receipt Date:	19960117
Manifest ID:	95855103
Trans EPA ID:	CAD980695761
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.42
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1995
Gen EPA ID:	CAD981658933

Shipment Date:	19950419
Creation Date:	4/2/1996 0:00:00
Receipt Date:	19950424
Manifest ID:	93402278
Trans EPA ID:	CAD981694664
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.1459
Waste Quantity:	35
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1997
Gen EPA ID:	CAD981658933

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

Shipment Date:	19970611
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970611
Manifest ID:	96617772
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.672
Waste Quantity:	160
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1994
Gen EPA ID:	CAD981658933

Shipment Date:	19940921
Creation Date:	10/17/1995 0:00:00
Receipt Date:	19940921
Manifest ID:	93122938
Trans EPA ID:	CAD980695761
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.882
Waste Quantity:	210
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19940408
Creation Date:	3/25/1996 0:00:00
Receipt Date:	19940408
Manifest ID:	93125622
Trans EPA ID:	CAD980695761

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.735
Waste Quantity:	175
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1999
Gen EPA ID:	CAD981658933
Shipment Date:	19991228
Creation Date:	3/22/2000 0:00:00
Receipt Date:	20000124
Manifest ID:	98817282
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0304
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991222
Creation Date:	3/22/2000 0:00:00
Receipt Date:	20000124
Manifest ID:	98817283
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.076
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991221
Creation Date:	3/22/2000 0:00:00
Receipt Date:	20000124
Manifest ID:	98817275
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0494
Waste Quantity:	13
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991217
Creation Date:	3/22/2000 0:00:00
Receipt Date:	20000124
Manifest ID:	98817274
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.095
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991208
Creation Date:	2/15/2000 0:00:00
Receipt Date:	19991208
Manifest ID:	98817272
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0152
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991207
Creation Date:	2/15/2000 0:00:00
Receipt Date:	19991208
Manifest ID:	98817271
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0
Waste Quantity:	4
Quantity Unit:	*
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991207
Creation Date:	2/15/2000 0:00:00
Receipt Date:	19991208
Manifest ID:	98817270

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0228
Waste Quantity:	6
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19991206
Creation Date:	2/15/2000 0:00:00
Receipt Date:	19991208
Manifest ID:	98817269
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0266
Waste Quantity:	7
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19991203
Creation Date:	2/15/2000 0:00:00
Receipt Date:	19991208
Manifest ID:	98817266
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.1786
Waste Quantity:	47
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991129
Creation Date:	2/15/2000 0:00:00
Receipt Date:	19991208
Manifest ID:	98817265
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.1786
Waste Quantity:	47
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2000
Gen EPA ID:	CAD981658933
Shipment Date:	20001218
Creation Date:	3/22/2001 0:00:00
Receipt Date:	20010103
Manifest ID:	98817380
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0266
Waste Quantity:	7
Quantity Unit:	G

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001215
Creation Date:	3/22/2001 0:00:00
Receipt Date:	20010103
Manifest ID:	98817385
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.038
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001208
Creation Date:	3/6/2001 0:00:00
Receipt Date:	20001215
Manifest ID:	99898095
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001201
Creation Date:	3/22/2001 0:00:00
Receipt Date:	20010103

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

Manifest ID:	98817443
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0152
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20001130
Creation Date:	1/24/2001 0:00:00
Receipt Date:	20001201
Manifest ID:	98817366
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0152
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20001117
Creation Date:	1/24/2001 0:00:00
Receipt Date:	20001201
Manifest ID:	98817367
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0266
Waste Quantity:	7
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001019
Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001110
Manifest ID:	98817368
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0228
Waste Quantity:	6
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001018
Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001110
Manifest ID:	98817339
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0646
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001010
Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001110
Manifest ID:	98817378
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0836
Waste Quantity:	22
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000926
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20001002
Manifest ID:	98817377
Trans EPA ID:	CAD981658933
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982413262
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0152
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAD981658933
Shipment Date:	19980916
Creation Date:	11/24/1998 0:00:00

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

Receipt Date:	19980916
Manifest ID:	98266024
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.756
Waste Quantity:	180
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19980121
Creation Date:	3/31/1998 0:00:00
Receipt Date:	19980121
Manifest ID:	97204083
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.756
Waste Quantity:	180
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAD981658933

Shipment Date:	20050316
Creation Date:	5/27/2005 18:30:42
Receipt Date:	20050325
Manifest ID:	24339850
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAD063547996

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

Trans 2 Name:	PHILIP TRANSPORATION & REMEDIATION INC
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTRURY EMI
TSDF Alt EPA ID:	NVD980895338
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.1668
Waste Quantity:	40
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	EMPIRE EQUIPMENT LP DBA NORTRAX
Address:	38600 CEDAR BLVD
Address 2:	Not reported
City,State,Zip:	NEWARK, CA 945600000
EPA ID:	CAD981658933
Inactive Date:	03/04/2005
Create Date:	04/10/1987
Last Act Date:	05/25/2007
Mailing Name:	NORMA STEVENSON
Mailing Address:	38600 CEDAR BLVD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	NEWARK, CA 945604800
Owner Name:	EMPIRE TRACTOR & EQUIPMENT CO
Owner Address:	PO BOX 5002
Owner Address 2:	Not reported
Owner City,State,Zip:	NEWARK, CA 945605502
Contact Name:	ALAN GENOS BRANCH MANAGER
Contact Address:	38600 CEDAR BLVD
Contact Address 2:	Not reported
City,State,Zip:	NEWARK, CA 945600000

NAICS:

EPA ID:	CAD981658933
Create Date:	2003-10-23 15:27:19.000
NAICS Code:	42183
NAICS Description:	Industrial Machinery and Equipment Wholesalers
Issued EPA ID Date:	1987-04-10 00:00:00
Inactive Date:	2005-03-04 00:00:00
Facility Name:	EMPIRE EQUIPMENT LP DBA NORTRAX
Facility Address:	38600 CEDAR BLVD
Facility Address 2:	Not reported
Facility City:	NEWARK
Facility County:	Not reported
Facility State:	CA
Facility Zip:	945600000

EPA ID:	CAD981658933
Create Date:	2002-12-03 15:25:10.000
NAICS Code:	44421

EMPIRE EQUIPMENT LP DBA NORTRAX (Continued) **S123816325**

NAICS Description:	Outdoor Power Equipment Stores
Issued EPA ID Date:	1987-04-10 00:00:00
Inactive Date:	2005-03-04 00:00:00
Facility Name:	EMPIRE EQUIPMENT LP DBA NORTRAX
Facility Address:	38600 CEDAR BLVD
Facility Address 2:	Not reported
Facility City:	NEWARK
Facility County:	Not reported
Facility State:	CA
Facility Zip:	945600000

A17 **EMPIRE TRACTOR** **LUST** **S100934694**
Target **38600 CEDAR BLVD** **Cortese** **N/A**
Property **NEWARK, CA 94560** **HAZNET**
HIST CORTESE
Site 17 of 24 in cluster A **CERS**
HWTS

Actual:
29 ft.

LUST:

Name:	NORTRAX WEST
Address:	38600 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100516
Global Id:	T0600100516
Latitude:	37.5320899
Longitude:	-122.008063
Status:	Open - Site Assessment
Status Date:	09/18/1992
Case Worker:	THC
RB Case Number:	01-0563
Local Agency:	ALAMEDA COUNTY WATER DISTRICT
File Location:	Not reported
Local Case Number:	TT0045
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	The subject property (Site) is a tractor and large equipment facility located on Cedar Blvd where Moores Avenue ends in Newark, California. The commercial/industrial yard consists of two (2) main large warehouse and repair buildings, an office building and has asphalt and gravel cover. Large equipment and tractors are parked on Site. Commercial and industrial land use with single-family residential compose the surrounding properties. The parcel is bordered to the north and east by State Freeway 880 (Nimitz), a large car smog shop to the northwest, across Cedar Avenue to the southwest are the residential properties, and a small motel to the southeast. A former 550-gal waste-oil tank (WOT) was located on the west side of the parcel near Cedar venue. Former underground storage tanks (USTs) for diesel (10,000-gal), gasoline (10,000-gal), and two smaller diesel USTs (550 gal each) were located in the southeastern corner of the parcel. Testing for hydrocarbon release of contaminated soil and groundwater began in 1988. The WOT was removed in 1989. In 1993, concentrations of total petroleum hydrocarbons as diesel (TPHd) reported in groundwater up to 120,000 ug/L (environmental screening levels for TPHd in water are 500 ug/L for commercial and industrial use). Total petroleum hydrocarbons as gasoline was also found on Site

EMPIRE TRACTOR (Continued) **S100934694**

in groundwater at concentrations up to 4,300 ug/L in 1992. Methyl tert butyl ether (MTBE) was either non-detect or very low levels in both soil and groundwater on Site. Chlorinated Volatile organic compounds (CVOVs) were also detected in high concentrations on Site, where Tetrachloroethene (PCE, or "perc", perchlorate) was found up to 160 ug/L (ESL of 0.7 ug/L in commercial industrial settings), 1,1,1,-Trichloroethane (TCA) up to 180 ug/L (ESL of 0.07 ug/L), 1,1,-Dichloroethane (DCA), up to 57 ug/L (ESL 0.2 ug/L, for commercial use). Ongoing monitoring of soil and groundwater continues on Site.

LUST:

Global Id:	T0600100516
Contact Type:	Local Agency Caseworker
Contact Name:	EILEEN CHEN
Organization Name:	ALAMEDA COUNTY WATER DISTRICT
Address:	43885 SOUTH GRIMMER BLVD.
City:	FREMONT
Email:	eileen.chen@acwd.com
Phone Number:	Not reported

Global Id:	T0600100516
Contact Type:	Regional Board Caseworker
Contact Name:	TORREN CAMPBELL
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 Clay Street Suite 1400
City:	OAKLAND
Email:	torren.campbell@waterboards.ca.gov
Phone Number:	5106222470

LUST:

Global Id:	T0600100516
Action Type:	ENFORCEMENT
Date:	08/25/2014
Action:	Meeting

Global Id:	T0600100516
Action Type:	ENFORCEMENT
Date:	08/05/2019
Action:	Technical Correspondence / Assistance / Other

Global Id:	T0600100516
Action Type:	RESPONSE
Date:	10/18/2018
Action:	Site Assessment Report

Global Id:	T0600100516
Action Type:	ENFORCEMENT
Date:	10/23/2006
Action:	Technical Correspondence / Assistance / Other

Global Id:	T0600100516
Action Type:	ENFORCEMENT
Date:	02/18/2009
Action:	Technical Correspondence / Assistance / Other

Global Id: T0600100516

EMPIRE TRACTOR (Continued) **S100934694**

Action Type:	ENFORCEMENT
Date:	06/22/1988
Action:	Notice of Violation - #2223.09
Global Id:	T0600100516
Action Type:	Other
Date:	10/20/1988
Action:	Leak Discovery
Global Id:	T0600100516
Action Type:	RESPONSE
Date:	08/05/1989
Action:	Other Report / Document
Global Id:	T0600100516
Action Type:	RESPONSE
Date:	03/07/2019
Action:	Correspondence
Global Id:	T0600100516
Action Type:	REMEDIATION
Date:	11/19/1991
Action:	Free Product Removal
Global Id:	T0600100516
Action Type:	ENFORCEMENT
Date:	06/25/1996
Action:	Technical Correspondence / Assistance / Other - #01s0088
Global Id:	T0600100516
Action Type:	ENFORCEMENT
Date:	06/25/2014
Action:	File review
Global Id:	T0600100516
Action Type:	ENFORCEMENT
Date:	04/12/2017
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0600100516
Action Type:	ENFORCEMENT
Date:	02/04/1998
Action:	Staff Letter
Global Id:	T0600100516
Action Type:	ENFORCEMENT
Date:	02/05/1998
Action:	Deadline Extension
Global Id:	T0600100516
Action Type:	ENFORCEMENT
Date:	09/22/2021
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0600100516
Action Type:	RESPONSE
Date:	11/01/1988

EMPIRE TRACTOR (Continued) **S100934694**

Action: Other Report / Document

Global Id: T0600100516
Action Type: RESPONSE
Date: 05/23/1992
Action: Correspondence

Global Id: T0600100516
Action Type: RESPONSE
Date: 09/04/2019
Action: Other Report / Document

Global Id: T0600100516
Action Type: RESPONSE
Date: 10/12/2019
Action: Correspondence

Global Id: T0600100516
Action Type: ENFORCEMENT
Date: 03/29/2010
Action: File review

Global Id: T0600100516
Action Type: ENFORCEMENT
Date: 12/08/1988
Action: Unauthorized Release Form - #01-0563

Global Id: T0600100516
Action Type: Other
Date: 12/08/1988
Action: Leak Reported

Global Id: T0600100516
Action Type: RESPONSE
Date: 12/13/1988
Action: Other Report / Document

Global Id: T0600100516
Action Type: RESPONSE
Date: 07/21/1987
Action: Soil and Water Investigation Report

Global Id: T0600100516
Action Type: RESPONSE
Date: 09/06/1988
Action: Soil and Water Investigation Report

Global Id: T0600100516
Action Type: RESPONSE
Date: 05/31/1990
Action: Correspondence

Global Id: T0600100516
Action Type: RESPONSE
Date: 12/16/1988
Action: Correspondence

EMPIRE TRACTOR (Continued) **S100934694**

Global Id: T0600100516
Action Type: RESPONSE
Date: 06/25/1992
Action: Monitoring Report - Quarterly

Global Id: T0600100516
Action Type: RESPONSE
Date: 05/25/1991
Action: Monitoring Report - Quarterly

Global Id: T0600100516
Action Type: RESPONSE
Date: 12/13/1988
Action: Other Report / Document

Global Id: T0600100516
Action Type: RESPONSE
Date: 12/08/1992
Action: Monitoring Report - Quarterly

Global Id: T0600100516
Action Type: RESPONSE
Date: 03/18/1992
Action: Monitoring Report - Quarterly

Global Id: T0600100516
Action Type: ENFORCEMENT
Date: 06/12/2012
Action: File review

Global Id: T0600100516
Action Type: ENFORCEMENT
Date: 08/13/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0600100516
Action Type: ENFORCEMENT
Date: 06/30/2016
Action: File review

Global Id: T0600100516
Action Type: Other
Date: 04/03/1989
Action: Leak Stopped

Global Id: T0600100516
Action Type: RESPONSE
Date: 09/16/1992
Action: Monitoring Report - Quarterly

Global Id: T0600100516
Action Type: RESPONSE
Date: 03/22/1993
Action: Monitoring Report - Quarterly

Global Id: T0600100516
Action Type: RESPONSE

EMPIRE TRACTOR (Continued) **S100934694**

Date: 06/10/2019
Action: Correspondence

Global Id: T0600100516
Action Type: ENFORCEMENT
Date: 07/31/2009
Action: Technical Correspondence / Assistance / Other

LUST:
Global Id: T0600100516
Status: Open - Case Begin Date
Status Date: 08/05/1989

Global Id: T0600100516
Status: Open - Site Assessment
Status Date: 09/18/1992

LUST REG 2:
Region: 2
Facility Id: 01-0563
Facility Status: Pollution Characterization
Case Number: 0045
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: 9/18/1992
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CORTESE:
Name: NORTRAX WEST
Address: 38600 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600100516
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: OPEN - SITE ASSESSMENT
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported

EMPIRE TRACTOR (Continued) **S100934694**

WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HAZNET:
Name: PAP MACHINERY INC.
Address: 38600 CEDAR BLVD
Address 2: Not reported
City,State,Zip: NEWARK, CA 974400000
Contact: KRISTINE HAMILTON
Telephone: 5413023577
Mailing Name: Not reported
Mailing Address: PO BOX 407

Year: 2019
Gepaid: CAL000291924
TSD EPA ID: AZR000515924
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.32500

Year: 2019
Gepaid: CAL000291924
TSD EPA ID: AZR000521146
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.98000

Year: 2019
Gepaid: CAL000291924
TSD EPA ID: CAT080013352
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.34000

Year: 2018
Gepaid: CAL000291924
TSD EPA ID: CAT080013352
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.91800

Year: 2018
Gepaid: CAL000291924
TSD EPA ID: AZR000515924
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 2.66500

Year: 2018
Gepaid: CAL000291924

EMPIRE TRACTOR (Continued) **S100934694**

TSD EPA ID:	CAD097030993
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.30000
Year:	2017
Gepaid:	CAL000291924
TSD EPA ID:	CAD097030993
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	2.35
Year:	2016
Gepaid:	CAL000291924
TSD EPA ID:	CAD097030993
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	2.755
Year:	2015
Gepaid:	CAL000291924
TSD EPA ID:	CAD097030993
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	2.6935
Year:	2014
Gepaid:	CAL000291924
TSD EPA ID:	CAT080013352
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	1.0425

Click this hyperlink while viewing on your computer to access
34 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2010
Gen EPA ID:	CAL000291924
Shipment Date:	20101220
Creation Date:	2/19/2011 18:30:25
Receipt Date:	20101221
Manifest ID:	005764884JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101123
Creation Date:	2/8/2011 18:30:44
Receipt Date:	20101208
Manifest ID:	001987884JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101123
Creation Date:	1/12/2011 18:30:31
Receipt Date:	20101124
Manifest ID:	005764822JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250

EMPIRE TRACTOR (Continued) **S100934694**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101105
Creation Date:	2/8/2011 18:30:17
Receipt Date:	20101118
Manifest ID:	001987881JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.035
Waste Quantity:	70
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101105
Creation Date:	1/3/2011 18:31:10
Receipt Date:	20101108
Manifest ID:	005764625JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D006
Additional Code 3:	D005
Additional Code 4:	D004
Additional Code 5:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Shipment Date:	20101029
Creation Date:	1/3/2011 18:31:02
Receipt Date:	20101101
Manifest ID:	005764613JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20100825
Creation Date:	10/8/2010 18:30:41
Receipt Date:	20100826
Manifest ID:	005762498JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20100525
Creation Date:	1/14/2011 18:30:08
Receipt Date:	20100528
Manifest ID:	005756084JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAR000177527

EMPIRE TRACTOR (Continued) **S100934694**

Trans 2 Name:	PHILIP WEST INDUSTRIAL SERVICES
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100525
Creation Date:	8/6/2010 18:31:05
Receipt Date:	20100526
Manifest ID:	005764075JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100408
Creation Date:	6/29/2010 18:30:25
Receipt Date:	20100412
Manifest ID:	005762126JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAL000291924
Shipment Date:	20151207
Creation Date:	2/10/2016 22:15:31
Receipt Date:	20151214
Manifest ID:	015143789JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151007
Creation Date:	11/30/2015 22:15:27
Receipt Date:	20151020
Manifest ID:	015149465JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3

EMPIRE TRACTOR (Continued) **S100934694**

Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150813
Creation Date:	11/4/2015 22:15:42
Receipt Date:	20150824
Manifest ID:	014644783JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150604
Creation Date:	8/20/2015 22:15:10
Receipt Date:	20150616
Manifest ID:	014056409JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Shipment Date:	20150324
Creation Date:	6/25/2015 22:16:05
Receipt Date:	20150413
Manifest ID:	014051880JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150123
Creation Date:	4/16/2015 22:14:42
Receipt Date:	20150209
Manifest ID:	012422508JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.5935
Waste Quantity:	1187
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2009
Gen EPA ID:	CAL000291924

Shipment Date:	20091204
Creation Date:	6/29/2010 18:30:46
Receipt Date:	20091211

EMPIRE TRACTOR (Continued) **S100934694**

Manifest ID:	005756063JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAR000177527
Trans 2 Name:	PHILIP WEST INDUSTRIAL SERVICES
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091110
Creation Date:	10/8/2010 18:31:11
Receipt Date:	20091111
Manifest ID:	004911480JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091019
Creation Date:	11/25/2009 18:30:45
Receipt Date:	20091020
Manifest ID:	004911371JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC

EMPIRE TRACTOR (Continued) **S100934694**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090914
Creation Date:	3/5/2010 18:31:00
Receipt Date:	20090917
Manifest ID:	004858393JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAR000177527
Trans 2 Name:	PHILIP WEST INDUSTRIAL SERVICES
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.035
Waste Quantity:	70
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090814
Creation Date:	12/31/2010 9:52:26
Receipt Date:	20090819
Manifest ID:	004911086JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05

EMPIRE TRACTOR (Continued) **S100934694**

Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090511
Creation Date:	9/9/2009 18:30:22
Receipt Date:	20090514
Manifest ID:	004859450JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAR000177527
Trans 2 Name:	PHILIP WEST INDUSTRIAL SERVICES
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090511
Creation Date:	6/16/2009 18:30:30
Receipt Date:	20090512
Manifest ID:	004905735JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Shipment Date:	20090326
Creation Date:	4/29/2009 18:30:21
Receipt Date:	20090406
Manifest ID:	005553916JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20090310
Creation Date:	4/21/2009 18:30:21
Receipt Date:	20090318
Manifest ID:	005547829JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.5004
Waste Quantity:	120
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20090109
Creation Date:	3/9/2009 18:30:38
Receipt Date:	20090120
Manifest ID:	005101864JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAL000291924
Shipment Date:	20061121
Creation Date:	3/30/2007 13:34:30
Receipt Date:	20061121
Manifest ID:	002589137JJK
Trans EPA ID:	CAD982513632
Trans Name:	DENBESTE TRANSPORTATION INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	15.7
Waste Quantity:	31400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060908
Creation Date:	4/19/2007 18:30:35
Receipt Date:	20060908
Manifest ID:	000900362JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC

EMPIRE TRACTOR (Continued) **S100934694**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	4.587
Waste Quantity:	1100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060222
Creation Date:	6/14/2006 18:34:47
Receipt Date:	20060222
Manifest ID:	24346130
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	5.206
Waste Quantity:	1370
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2016
Gen EPA ID:	CAL000291924
Shipment Date:	20151207
Creation Date:	2/10/2016 22:15:31
Receipt Date:	20151214
Manifest ID:	015143789JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151007
Creation Date:	11/30/2015 22:15:27
Receipt Date:	20151020
Manifest ID:	015149465JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150813
Creation Date:	11/4/2015 22:15:42
Receipt Date:	20150824
Manifest ID:	014644783JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150604
Creation Date:	8/20/2015 22:15:10
Receipt Date:	20150616
Manifest ID:	014056409JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150324
Creation Date:	6/25/2015 22:16:05
Receipt Date:	20150413
Manifest ID:	014051880JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150123
Creation Date:	4/16/2015 22:14:42
Receipt Date:	20150209

EMPIRE TRACTOR (Continued) **S100934694**

Manifest ID:	012422508JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.5935
Waste Quantity:	1187
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAL000291924
Shipment Date:	20121218
Creation Date:	3/21/2013 22:15:06
Receipt Date:	20121227
Manifest ID:	010829544JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121218
Creation Date:	2/17/2013 22:15:06
Receipt Date:	20121219
Manifest ID:	010829542JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES

EMPIRE TRACTOR (Continued) **S100934694**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121105
Creation Date:	1/9/2013 22:15:17
Receipt Date:	20121105
Manifest ID:	010023737JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.0008
Waste Quantity:	240
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121012
Creation Date:	12/20/2012 22:15:18
Receipt Date:	20121012
Manifest ID:	006393693JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste

EMPIRE TRACTOR (Continued) **S100934694**

RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.325
Waste Quantity:	650
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121008
Creation Date:	1/13/2013 22:15:06
Receipt Date:	20121024
Manifest ID:	006393698JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120719
Creation Date:	10/23/2012 22:15:09
Receipt Date:	20120731
Manifest ID:	010027790JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120719
Creation Date:	12/6/2012 22:16:01
Receipt Date:	20120720
Manifest ID:	010021078JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.375
Waste Quantity:	750
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120510
Creation Date:	8/16/2012 22:15:19
Receipt Date:	20120522
Manifest ID:	008640709JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120510
Creation Date:	6/27/2012 20:30:19

EMPIRE TRACTOR (Continued) **S100934694**

Receipt Date:	20120510
Manifest ID:	010027784JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120228
Creation Date:	4/16/2012 20:30:25
Receipt Date:	20120229
Manifest ID:	009436601JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.325
Waste Quantity:	650
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAL000291924

Shipment Date:	20141027
Creation Date:	1/8/2015 22:15:01
Receipt Date:	20141110
Manifest ID:	013803936JJK
Trans EPA ID:	CAD028277036

EMPIRE TRACTOR (Continued) **S100934694**

Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140910
Creation Date:	11/8/2014 22:15:16
Receipt Date:	20140923
Manifest ID:	013078845JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.35
Waste Quantity:	700
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140811
Creation Date:	10/17/2014 22:15:06
Receipt Date:	20140819
Manifest ID:	013082851JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.625
Waste Quantity:	1250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140626
Creation Date:	9/30/2014 22:15:02
Receipt Date:	20140714
Manifest ID:	013081655JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.9
Waste Quantity:	1800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140602
Creation Date:	8/18/2014 22:15:04
Receipt Date:	20140611
Manifest ID:	013075332JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.0425
Waste Quantity:	250
Quantity Unit:	G

EMPIRE TRACTOR (Continued) **S100934694**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140509
Creation Date:	7/12/2014 22:15:23
Receipt Date:	20140527
Manifest ID:	013085413JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140311
Creation Date:	5/24/2014 22:15:06
Receipt Date:	20140324
Manifest ID:	012421515JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Additional Info:

Year:	2017
Gen EPA ID:	CAL000291924
Shipment Date:	20171031
Creation Date:	6/13/2018 18:31:07
Receipt Date:	20171113
Manifest ID:	017785361JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170920
Creation Date:	5/30/2018 18:33:51
Receipt Date:	20171005
Manifest ID:	017695867JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.35
Waste Quantity:	700
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170727
Creation Date:	5/29/2018 18:30:34
Receipt Date:	20170816

EMPIRE TRACTOR (Continued) **S100934694**

Manifest ID:	017787895JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170612
Creation Date:	5/20/2018 18:31:51
Receipt Date:	20170705
Manifest ID:	016869336JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170412
Creation Date:	5/9/2018 18:31:26
Receipt Date:	20170428
Manifest ID:	016863365JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC

EMPIRE TRACTOR (Continued) **S100934694**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170203
Creation Date:	5/17/2017 18:31:04
Receipt Date:	20170220
Manifest ID:	016863853JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON, INC.
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.55
Waste Quantity:	1100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2008
Gen EPA ID:	CAL000291924
Shipment Date:	20081209
Creation Date:	2/17/2009 18:30:08
Receipt Date:	20081222
Manifest ID:	005107944JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids

EMPIRE TRACTOR (Continued) **S100934694**

RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081104
Creation Date:	1/9/2009 18:30:26
Receipt Date:	20081118
Manifest ID:	005107655JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081003
Creation Date:	11/17/2008 18:30:32
Receipt Date:	20081014
Manifest ID:	005105371JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080829
Creation Date:	10/21/2008 18:30:24
Receipt Date:	20080916
Manifest ID:	005104833JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080721
Creation Date:	11/18/2008 18:30:17
Receipt Date:	20080724
Manifest ID:	003338484JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAR000177527
Trans 2 Name:	PHILIP WEST INDUSTRIAL SERVICES
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY EMI
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080721
Creation Date:	8/29/2008 18:30:24

EMPIRE TRACTOR (Continued) **S100934694**

Receipt Date:	20080722
Manifest ID:	003940672JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080612
Creation Date:	11/12/2008 18:30:09
Receipt Date:	20080626
Manifest ID:	001441718JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAR000177527
Trans 2 Name:	PHILIP WEST INDUSTRIAL SERVICES
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY EMI
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080612
Creation Date:	8/4/2008 18:30:49
Receipt Date:	20080612
Manifest ID:	004010924JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418

EMPIRE TRACTOR (Continued) **S100934694**

Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080502
Creation Date:	9/25/2008 18:30:09
Receipt Date:	20080508
Manifest ID:	003338481JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAR000177527
Trans 2 Name:	PHILIP WEST INDUSTRIAL SERVICES
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY EMI
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0325
Waste Quantity:	65
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080502
Creation Date:	6/25/2008 18:30:27
Receipt Date:	20080502
Manifest ID:	004010800JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

EMPIRE TRACTOR (Continued) **S100934694**

Quantity Tons:	0.0325
Waste Quantity:	65
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAL000291924
Shipment Date:	20071218
Creation Date:	3/6/2008 18:30:19
Receipt Date:	20071218
Manifest ID:	003775544JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.09
Waste Quantity:	180
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071218
Creation Date:	3/6/2008 18:30:19
Receipt Date:	20071218
Manifest ID:	003775544JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P

EMPIRE TRACTOR (Continued) **S100934694**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071218
Creation Date:	5/21/2008 18:30:15
Receipt Date:	20071227
Manifest ID:	003339849JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAR000177527
Trans 2 Name:	PHILIP WEST INDUSTRIAL SERVICES
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY EMI
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071108
Creation Date:	1/25/2008 18:30:14
Receipt Date:	20071108
Manifest ID:	003338090JJK
Trans EPA ID:	CAR000168799
Trans Name:	SANTA FE TRUCKING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	CHEMICAL WASTE MANAGEMENT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071108

EMPIRE TRACTOR (Continued) **S100934694**

Creation Date:	1/25/2008 18:30:14
Receipt Date:	20071108
Manifest ID:	003338093JJK
Trans EPA ID:	CAR000178434
Trans Name:	DJ TRUCKING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	CHEMICAL WASTE MANAGEMENT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20071108
Creation Date:	1/25/2008 18:30:14
Receipt Date:	20071108
Manifest ID:	003338089JJK
Trans EPA ID:	CAR000178475
Trans Name:	DENBESTE TRANSPORTATION INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	JIF TRUCKING
TSDF EPA ID:	CAT000646117
Trans Name:	CHEMICAL WASTE MANAGEMENT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20071108
Creation Date:	1/25/2008 18:30:14
Receipt Date:	20071108
Manifest ID:	003338088JJK
Trans EPA ID:	CAD982513632
Trans Name:	DENBESTE TRANSPORTATION INC
Trans 2 EPA ID:	CAR000165001
Trans 2 Name:	FRANKLIN P TRUCKING

EMPIRE TRACTOR (Continued) **S100934694**

TSDF EPA ID:	CAT000646117
Trans Name:	CHEMICAL WASTE MANAGEMENT
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	8.428
Waste Quantity:	10
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070516
Creation Date:	10/10/2007 18:30:38
Receipt Date:	20070518
Manifest ID:	002529212JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.5012
Waste Quantity:	360
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070412
Creation Date:	8/23/2007 18:30:34
Receipt Date:	20070412
Manifest ID:	002582413JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

EMPIRE TRACTOR (Continued) **S100934694**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	2.502
Waste Quantity:	600
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070207
Creation Date:	6/25/2008 18:30:27
Receipt Date:	20070209
Manifest ID:	000899488JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAR000177527
Trans 2 Name:	PSC INDUSTRIAL OUTSOURCING INC
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY EMI
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAL000291924
Shipment Date:	20111115
Creation Date:	7/19/2012 22:00:21
Receipt Date:	20111121
Manifest ID:	008640701JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100

EMPIRE TRACTOR (Continued) **S100934694**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111115
Creation Date:	1/20/2012 20:31:14
Receipt Date:	20111116
Manifest ID:	003781351JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110913
Creation Date:	11/8/2011 18:30:12
Receipt Date:	20110914
Manifest ID:	006390967JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Shipment Date:	20110913
Creation Date:	7/19/2012 22:00:14
Receipt Date:	20110919
Manifest ID:	008640535JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110708
Creation Date:	8/26/2011 18:30:44
Receipt Date:	20110711
Manifest ID:	007035801JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110708
Creation Date:	6/29/2012 20:30:06
Receipt Date:	20110721
Manifest ID:	003024112JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	MAD039322250

EMPIRE TRACTOR (Continued) **S100934694**

Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110506
Creation Date:	6/27/2011 18:30:25
Receipt Date:	20110509
Manifest ID:	004877249JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110506
Creation Date:	7/25/2011 18:30:12
Receipt Date:	20110520
Manifest ID:	003024012JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001

EMPIRE TRACTOR (Continued) **S100934694**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110414
Creation Date:	6/4/2011 18:30:20
Receipt Date:	20110415
Manifest ID:	004877191JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110301
Creation Date:	4/27/2011 18:30:35
Receipt Date:	20110301
Manifest ID:	007039043JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Quantity Tons:	0.89655
Waste Quantity:	215
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAL000291924
Shipment Date:	20131217
Creation Date:	2/24/2014 22:15:29
Receipt Date:	20131230
Manifest ID:	012426017JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131004
Creation Date:	11/25/2013 22:15:16
Receipt Date:	20131008
Manifest ID:	011819822JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.6255
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Shipment Date:	20130920
Creation Date:	11/16/2013 22:15:32
Receipt Date:	20131007
Manifest ID:	011818362JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20130626
Creation Date:	8/22/2013 22:15:23
Receipt Date:	20130708
Manifest ID:	009897718JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS INDUSTRY INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20130507
Creation Date:	6/27/2013 22:15:06
Receipt Date:	20130509
Manifest ID:	010832472JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130304
Creation Date:	8/16/2013 22:15:19
Receipt Date:	20130321
Manifest ID:	010834821JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAR000210617
Trans 2 Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CA LP
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130304
Creation Date:	4/22/2013 22:15:13
Receipt Date:	20130305
Manifest ID:	010834820JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAL000291924
Shipment Date:	20050506
Creation Date:	8/17/2005 18:31:07
Receipt Date:	20050506
Manifest ID:	23797410
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	1.292
Waste Quantity:	340
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050506
Creation Date:	7/27/2005 10:48:47
Receipt Date:	20050523
Manifest ID:	23497151
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAD063547996
Trans 2 Name:	PHILIP TRANSPORTATION & REMEDIATION INC
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY EMI
TSDF Alt EPA ID:	NVD980895338
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	NONE
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	Not reported
Waste Quantity:	500
Quantity Unit:	Not reported

EMPIRE TRACTOR (Continued) **S100934694**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050506
Creation Date:	7/27/2005 10:48:47
Receipt Date:	20050523
Manifest ID:	23497151
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAD063547996
Trans 2 Name:	PHILIP TRANSPORTATION & REMEDIATION INC
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTURY EMI
TSDF Alt EPA ID:	NVD980895338
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050506
Creation Date:	8/24/2005 7:27:35
Receipt Date:	20050518
Manifest ID:	23497150
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAD980584510
Trans 2 Name:	PHILIP TRANSPORTATION & REMEDIATION INC
TSDF EPA ID:	CAT000646117
Trans Name:	CHEMICAL WASTE MANAGEMENT
TSDF Alt EPA ID:	CAT000646117
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	NON
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	9.2708
Waste Quantity:	11
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HIST CORTESE:

edr_fname:	EMPIRE TRACTOR COMPANY
edr_fadd1:	38600 CEDAR

EMPIRE TRACTOR (Continued) **S100934694**

City,State,Zip: NEWARK, CA
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0563

CERS:
Name: NORTRAX WEST
Address: 38600 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Site ID: 194908
CERS ID: T0600100516
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: EILEEN CHEN - ALAMEDA COUNTY WATER DISTRICT
Entity Title: Not reported
Affiliation Address: 43885 SOUTH GRIMMER BLVD.
Affiliation City: FREMONT
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker
Entity Name: SIMERPREET MATHARU - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 clay Street, Suite 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 5106222339,

HWTS:
Name: PAP MACHINERY, INC.
Address: 38600 CEDAR BLVD
Address 2: Not reported
City,State,Zip: NEWARK, CA 945604800
EPA ID: CAL000291924
Inactive Date: Not reported
Create Date: 03/07/2005
Last Act Date: 08/03/2020
Mailing Name: JANET KING
Mailing Address: PO BOX 407
Mailing Address 2: Not reported
Mailing City,State,Zip: EUGENE, OR 974400000
Owner Name: THE PAP GROUP INC
Owner Address: PO BOX 407
Owner Address 2: Not reported
Owner City,State,Zip: EUGENE, OR 974400000
Contact Name: JANET KING
Contact Address: 355 GOODPASTURE IS. RD.
Contact Address 2: SUITE 300
City,State,Zip: EUGENE, OR 97401

EMPIRE TRACTOR (Continued) **S100934694**

NAICS:

EPA ID:	CAL000291924
Create Date:	2005-03-07 15:15:58.803
NAICS Code:	42181
NAICS Description:	Construction and Mining (except Oil Well) Machinery and Equipment Wholesalers
Issued EPA ID Date:	2005-03-07 15:15:58.35000
Inactive Date:	Not reported
Facility Name:	PAP MACHINERY, INC.
Facility Address:	38600 CEDAR BLVD
Facility Address 2:	Not reported
Facility City:	NEWARK
Facility County:	Not reported
Facility State:	CA
Facility Zip:	945604800

A18 **NORTRAX WEST** **RGA LUST** **S114661937**
Target **38600 CEDAR BLVD** **N/A**
Property **NEWARK, CA**

Site 18 of 24 in cluster A

Actual: **29 ft.**

RGA LUST:

Name:	NORTRAX WEST		
Address:	38600 CEDAR BLVD		
City:	NEWARK		
State:	NEWARK		
	2012	NORTRAX WEST	38600 CEDAR BLVD
Name:	NORTRAX WEST		
Address:	38600 CEDAR BLVD		
City:	NEWARK		
State:	NEWARK		
	2011	NORTRAX WEST	38600 CEDAR BLVD
Name:	NORTRAX WEST		
Address:	38600 CEDAR BLVD		
City:	NEWARK		
State:	NEWARK		
	2010	NORTRAX WEST	38600 CEDAR BLVD
Name:	NORTRAX WEST		
Address:	38600 CEDAR BLVD		
City:	NEWARK		
State:	NEWARK		
	2009	NORTRAX WEST	38600 CEDAR BLVD

A19 **NORTRAX INC** **FINDS** **1016431225**
Target **38600 CEDAR BLVD** **ECHO** **N/A**
Property **NEWARK, CA 94560**

Site 19 of 24 in cluster A

Actual: **29 ft.**

FINDS:

Registry ID:	110055825424

Click Here:

NORTRAX INC (Continued) **1016431225**

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1016431225
Registry ID:	110055825424
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110055825424
Name:	NORTRAX INC
Address:	38600 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560

A20 **PAPE MACHINARY INC.** **AST** **A100346017**
Target Property **38600 CEDAR BLVD.** **N/A**
NEWARK, CA

Site 20 of 24 in cluster A

Actual: 29 ft.

AST:

Name:	PAPE MACHINARY INC.
Address:	38600 CEDAR BLVD.
City/Zip:	NEWARK,
Certified Unified Program Agencies:	Alameda
Owner:	PAPE MACHINARY INC
Total Gallons:	2000
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

A21 **PAPE MACHINERY** **NPDES** **S118602944**
Target **38600 CEDAR BLVD** **CIWQS** **N/A**
Property **NEWARK, CA 94560**

Site 21 of 24 in cluster A

Actual:
29 ft.

NPDES:

Name:	PAPE MACHINERY
Address:	38600 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 01I028009
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	12/03/2019
Operator Name:	Pape Properties Inc
Operator Address:	PO Box 407
Operator City:	Eugene
Operator State:	Oregon
Operator Zip:	97440

Name:	PAPE MACHINERY INC
Address:	38600 CEDAR BLVD
City,State,Zip:	NEWARK, CA 97401
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 01I021285
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported

PAPE MACHINERY (Continued) **S118602944**

Status:	Terminated
Status Date:	02/25/2016
Operator Name:	Pape Machinery Inc
Operator Address:	355 Goodpasture Island Rd
Operator City:	Eugene
Operator State:	California
Operator Zip:	97401

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	336504
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01I021285
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	11/14/2007
Status:	Terminated
Status Date:	02/25/2016
Place Size:	3.7
Place Size Unit:	Acres
Contact:	Cris Lemley
Contact Title:	Not reported
Contact Phone:	510-790-3600
Contact Phone Ext:	Not reported
Contact Email:	clemley@papamachinery.com
Operator Name:	Pape Machinery Inc
Operator Address:	355 Goodpasture Island Rd
Operator City:	Eugene
Operator State:	California
Operator Zip:	97401
Operator Contact:	Daniel Radonski
Operator Contact Title:	Not reported
Operator Contact Phone:	541-341-3344
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	dradonski@pape.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported

PAPE MACHINERY (Continued) **S118602944**

Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	San Francisco Bay
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	3531-Construction Machinery and Equipment
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Terminated
Agency Number:	0
Region:	2
Regulatory Measure ID:	336504
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01I021285
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/14/2007
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Pape Machinery Inc
Discharge Address:	355 Goodpasture Island Rd
Discharge City:	Eugene
Discharge State:	California
Discharge Zip:	97401
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported

PAPE MACHINERY (Continued) **S118602944**

Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	PAPE MACHINERY
Address:	38600 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
Facility Status:	Terminated
NPDES Number:	CAS000001
Region:	2
Agency Number:	0
Regulatory Measure ID:	471916
Place ID:	Not reported
Order Number:	97-03-DWQ

PAPE MACHINERY (Continued) **S118602944**

WDID:	2 01I028009
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	12/27/2018
Termination Date Of Regulatory Measure:	12/03/2019
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	PO Box 407
Discharge Name:	Pape Properties Inc
Discharge City:	Eugene
Discharge State:	Oregon
Discharge Zip:	97440
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

CIWQS:

Name:	PAPE MACHINERY INC
Address:	38600 CEDAR BLVD
City,State,Zip:	NEWARK, CA 97401
Agency:	Pape Machinery Inc
Agency Address:	355 Goodpasture Island Rd, Eugene, CA 97401
Place/Project Type:	Industrial - Construction Machinery and Equipment
SIC/NAICS:	3531
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 01I021285
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	11/14/2007
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

Name:	PAPE MACHINERY
Address:	38600 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
Agency:	Pape Properties Inc
Agency Address:	PO Box 407, Eugene, OR 97440
Place/Project Type:	Industrial - Construction Machinery and Equipment
SIC/NAICS:	3531
Region:	2
Program:	INDSTW

PAPE MACHINERY (Continued) **S118602944**

Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 01I028009
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	12/27/2018
Termination Date:	12/03/2019
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	1
Violations within 5 years:	1
Latitude:	37.53212
Longitude:	-122.00811

A22 **PAPE MACHINERY INC** **NPDES S118602945**
Target **38600 CEDAR BOULEVARD** **CIWQS N/A**
Property **NEWARK, CA 94560** **CERS**

Site 22 of 24 in cluster A

Actual:
29 ft.

NPDES:

Name:	PAPE MACHINERY INC
Address:	38600 CEDAR BOULEVARD
City,State,Zip:	NEWARK, CA 94560
Facility Status:	Active
NPDES Number:	CAS000001
Region:	2
Agency Number:	0
Regulatory Measure ID:	457047
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	2 01I026011
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/24/2015
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	PO Box 407
Discharge Name:	Pape Properties Inc
Discharge City:	Eugene
Discharge State:	Oregon
Discharge Zip:	97440
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported

PAPE MACHINERY INC (Continued) **S118602945**

Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	457047
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01I026011
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	08/14/2015
Processed Date:	08/24/2015
Status:	Active
Status Date:	08/24/2015
Place Size:	3.7
Place Size Unit:	Acres
Contact:	Mike Moss
Contact Title:	Regional Product Support Manager
Contact Phone:	510-790-4136
Contact Phone Ext:	Not reported
Contact Email:	mmoss@papemachinery.com
Operator Name:	Pape Properties Inc
Operator Address:	PO Box 407
Operator City:	Eugene
Operator State:	Oregon
Operator Zip:	97440
Operator Contact:	Daniel Radonski
Operator Contact Title:	Environmental & Project Manager
Operator Contact Phone:	541-341-3344
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	dradonski@pape.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Oregon
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	707-974-8809
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported

PAPE MACHINERY INC (Continued) **S118602945**

Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Francisco Bay
Certifier:	Daniel Radonski
Certifier Title:	Mr.
Certification Date:	14-AUG-15
Primary Sic:	3531-Construction Machinery and Equipment
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	457047
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01I026011
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/24/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Pape Properties Inc
Discharge Address:	PO Box 407
Discharge City:	Eugene
Discharge State:	Oregon
Discharge Zip:	97440
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported

PAPE MACHINERY INC (Continued) **S118602945**

Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	PAPE MACHINERY INC
Address:	38600 CEDAR BOULEVARD
City,State,Zip:	NEWARK, CA 94560
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 01I026011
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported

PAPE MACHINERY INC (Continued) **S118602945**

Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	08/24/2015
Operator Name:	Pape Properties Inc
Operator Address:	PO Box 407
Operator City:	Eugene
Operator State:	Oregon
Operator Zip:	97440

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	457047
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01I026011
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	08/14/2015
Processed Date:	08/24/2015
Status:	Active
Status Date:	08/24/2015
Place Size:	3.7
Place Size Unit:	Acres
Contact:	Mike Moss
Contact Title:	Regional Product Support Manager
Contact Phone:	510-790-4136
Contact Phone Ext:	Not reported
Contact Email:	mmoss@papemachinery.com
Operator Name:	Pape Properties Inc
Operator Address:	PO Box 407
Operator City:	Eugene
Operator State:	Oregon
Operator Zip:	97440
Operator Contact:	Daniel Radonski
Operator Contact Title:	Environmental & Project Manager
Operator Contact Phone:	541-341-3344
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	dradonski@pape.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Oregon
Developer Zip:	Not reported
Developer Contact:	Not reported

PAPE MACHINERY INC (Continued) **S118602945**

Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	707-974-8809
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Francisco Bay
Certifier:	Daniel Radonski
Certifier Title:	Mr.
Certification Date:	14-AUG-15
Primary Sic:	3531-Construction Machinery and Equipment
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	457047
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01I026011
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/24/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Pape Properties Inc
Discharge Address:	PO Box 407
Discharge City:	Eugene
Discharge State:	Oregon
Discharge Zip:	97440
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported

PAPE MACHINERY INC (Continued) **S118602945**

Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	PAPE MACHINERY INC
Address:	38600 CEDAR BOULEVARD
City,State,Zip:	NEWARK, CA 94560
Agency:	Pape Properties Inc
Agency Address:	PO Box 407, Eugene, OR 97440
Place/Project Type:	Industrial - Construction Machinery and Equipment
SIC/NAICS:	3531

PAPE MACHINERY INC (Continued) **S118602945**

Region:	2
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 01I026011
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	08/24/2015
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.531758
Longitude:	-122.007625

CERS:

Name:	PAPE MACHINERY INC
Address:	38600 CEDAR BOULEVARD
City,State,Zip:	NEWARK, CA 94560
Site ID:	538974
CERS ID:	838150
CERS Description:	Industrial Facility Storm Water

Evaluation:

Eval General Type:	Case Development Inspection
Eval Date:	10-25-2018
Violations Found:	No
Eval Type:	Industrial Storm Water Enforcement Follow-up
Eval Notes:	The facility did not submit their 2017-18 AR. They are aware of this and working with their consultant to submit the report next week. The facility sells, rents and repairs John Deer construction equipment. The facility is unpaved. The facility has filter socks in all their storm drain inlets. They keep the storm drain inlets covered during non-rainy season due avoid sediment buildup. The facility has an advanced storm water treatment system. I did not observe any issues at this facility.
Eval Division:	Water Boards
Eval Program:	INDSTW
Eval Source:	SMARTS,

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	Pape Properties Inc
Entity Title:	Operator
Affiliation Address:	PO Box 407
Affiliation City:	Eugene
Affiliation State:	OR
Affiliation Country:	Not reported
Affiliation Zip:	97440
Affiliation Phone:	,

A23 **EMPIRE EQUIPMENT CO LP** **RCRA-SQG** **1000261287**
Target **38600 CEADAR BLVD** **FINDS** **CAD981658933**
Property **NEWARK, CA 94560** **ECHO**

Site 23 of 24 in cluster A

Actual:
29 ft.

RCRA-SQG:

Date Form Received by Agency:		19960314
Handler Name:	EMPIRE EQUIPMENT CO LP	
Handler Address:		38600 CEADAR BLVD
Handler City,State,Zip:		NEWARK, CA 94560
EPA ID:		CAD981658933
Contact Name:		STEPHEN WILSON
Contact Address:		38600 CEADAR BLVD
Contact City,State,Zip:		NEWARK, CA 94560
Contact Telephone:		510-790-3600
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA
State District:		2
Mailing Address:		P O BOX 5002
Mailing City,State,Zip:		NEWARK, CA 94560-5002
Owner Name:		EMPIRE EQUIPMENT CO LP
Owner Type:		Private
Operator Name:		NOT REQUIRED
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

EMPIRE EQUIPMENT CO LP (Continued) **1000261287**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EMPIRE EQUIPMENT CO LP
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	P O BOX 15017
Owner/Operator City,State,Zip:	SACRAMENTO, CA 95851
Owner/Operator Telephone:	916-922-7181
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

EMPIRE EQUIPMENT CO LP (Continued) **1000261287**

Historic Generators:
Receive Date: 19960314
Handler Name: EMPIRE EQUIPMENT CO LP
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002740712

Click Here:

Environmental Interest/Information System:
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000261287
Registry ID: 110002740712
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002740712
Name: EMPIRE EQUIPMENT CO LP
Address: 38600 CEADAR BLVD
City,State,Zip: NEWARK, CA 94560

A24 **PAPE MACHINERY, INC.** **CERS HAZ WASTE** **S121774908**
Target **38600 CEDAR BLVD** **CERS TANKS** **N/A**
Property **NEWARK, CA 94560** **CERS**

Site 24 of 24 in cluster A

Actual:
29 ft.

CERS HAZ WASTE:
Name: PAPE MACHINERY, INC.
Address: 38600 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Site ID: 399076
CERS ID: 10418017
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: PAPE MACHINERY, INC.
Address: 38600 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Site ID: 399076
CERS ID: 10418017
CERS Description: Aboveground Petroleum Storage

CERS:
Name: PAPE MACHINERY, INC.
Address: 38600 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Site ID: 399076
CERS ID: 10418017
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 399076
Site Name: Pape Machinery, Inc.
Violation Date: 06-19-2014
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 07/18/2014.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 399076
Site Name: Pape Machinery, Inc.
Violation Date: 04-08-2021
Citation: HSC 6.5 25160(b)(1)(C) - California Health and Safety Code, Chapter 6.5, Section(s) 25160(b)(1)(C)
Violation Description: Failure to send a legible copy of each hazardous waste manifest to the Department within 30 days of each shipment of hazardous waste.
Violation Notes: The generator has not sent a legible copy of each Uniform Hazardous Waste Manifest to the DTSC within 30 days of shipment. Send a copy of all hazardous waste manifests to the DTSC and submit a statement to the CUPA demonstrating compliance.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

PAPE MACHINERY, INC. (Continued) **S121774908**

Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	06-19-2014
Citation:	40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description:	Failure to ensure employees are familiar with the handling and compliance of hazardous waste regulations and emergency response.
Violation Notes:	Returned to compliance on 07/18/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	09-27-2017
Citation:	22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description:	Failure to provide employees with hazardous waste training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility.
Violation Notes:	Returned to compliance on 05/11/2018. OBSERVATION: The initial/annual hazardous waste training was available for the year 2015 and 2016, however, the hazwaste training for the year 2017 was not available during this inspection. CORRECTIVE ACTION: Provide employees with initial or refresher hazardous waste training and submit a copy of the roster including name of the employee filling each job, a job description for each position, duties of facility personnel assigned to each position, job title for each position at the facility related to hazardous waste management, and the syllabus to ACDEH within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	09-27-2017
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 05/01/2018. OBSERVATIONS IN BAY 2 OF THE NORTH BUILDING WAREHOUSE: Two portable tanks, one diesel, the other 90W oil are not labeled as "EMPTY". CORRECTIVE ACTIONS: Label these two tanks as "EMPTY" when empty and not in use.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	09-27-2017

PAPE MACHINERY, INC. (Continued) **S121774908**

Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to discuss in the SPCC Plan conformance with SPCC requirements and other effective discharge prevention and containment procedures, or any applicable more stringent State rules, regulations, and guidelines.
Violation Notes:	Returned to compliance on 05/01/2018.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	09-27-2017
Citation:	22 CCR 15 66265.31 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.31
Violation Description:	Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes:	Returned to compliance on 05/11/2018. OBSERVATION: LOCATION: PRODUCT TRANSFER AREA: Observed spilled oil in the secondary containment of Diesel Fuel and Used-Oil tanks which are contained with absorbents, however, it was not immediately cleaned-up. CORRECTIVE ACTION: Immediately clean-up the spill, disposed of used-absorbents properly, and submit a statement and supporting documentation (Photos) explaining how this waste was managed to ACDEH within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	09-27-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to provide the following training to all oil-handling personnel: 1. Operation and maintenance of equipment to prevent discharges. 2. Discharge procedure protocols. 3. Applicable pollution control laws, rules, and regulations. 4. General facility operations. 5. Contents of the SPCC Plan.
Violation Notes:	Returned to compliance on 05/11/2018. OBSERVATION: Failure to provide training regarding one or more of the following: 1. The operation and maintenance of equipment to prevent discharges. 2. Discharge procedure protocols. 3. Applicable pollution control laws, rules, and regulations. 4. General facility operations. AND 5. The contents of the SPCC Plan. CORRECTIVE ACTION: Provide training in: 1. The operation and maintenance of equipment to prevent discharges. 2. Discharge procedure protocols. 3. Applicable pollution control laws, rules, and regulations. 4. General facility operations. AND 5. The contents of the SPCC Plan. Submit a copy of the training record/sign in sheet.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,

PAPE MACHINERY, INC. (Continued) **S121774908**

Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	06-19-2014
Citation:	22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description:	Failure to provide employees within the first six months after the date of their employment, or assignment to the facility, or to work unsupervised, or to a new position at a facility with hazardous waste training to ensure employees are competent in the following areas: hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed, emergency response and emergency equipment, and procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment. In addition, the owner/operator shall ensure facility personnel take part in an annual review of the initial training and training records training records on current personnel shall be kept until closure of the facility. Training records on former employees shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.
Violation Notes:	Returned to compliance on 07/18/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	09-27-2017
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 05/01/2018. OBSERVATION: Facility has not amended the SPCC plan when the facility had a change in design, construction, operation, or maintenance which affects the facility s discharge potential. Facility has added a large drain rack in the service area that holds more than 55 gallons of used oil. CORRECTIVE ACTION: Facility is to amend the SPCC as required and include the drainage rack in all sections of the required sections of the plan.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,

Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	09-27-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 05/01/2018. OBSERVATIONS: The chemical inventory in CERS needs to be updated. CORRECTIVE ACTIONS: See

PAPE MACHINERY, INC. (Continued) **S121774908**

	violation #4 for more details.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	06-19-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to adequately discuss the facility transfer operations, pumping, and facility process within the SPCC plan.
Violation Notes:	Returned to compliance on 07/18/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	09-27-2017
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 05/11/2018. OBSERVATION: According to the "Pape Group 2017 Toolbox Topics" booklet, Emergency Action Plan training occurred on 1/23/17, Materials Handling training occurred on 7/10/17 and Spill Clean Up training will occur on 11/20/17. No documentation was available to review. CORRECTIVE ACTION: Submit documentation to the CUPA demonstrating that employees have received training on safe handling of hazardous materials and emergency response procedures.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	06-19-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to provide training regarding: 1. The operation and maintenance of equipment to prevent discharges. 2. Discharge procedure protocols. 3. Applicable pollution control laws, rules, and regulations. 4. General facility operations. AND 5. The contents of the SPCC Plan.
Violation Notes:	Returned to compliance on 07/18/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	09-27-2017
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22,

PAPE MACHINERY, INC. (Continued) **S121774908**

	Chapter 15, Section(s) 66265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 09/27/2017. Location: Storage Shed - Observed a 100-gallon Used Antifreeze container that did not have a lid. Corrected Onsite: The facility representative immediately closed the open 100-gallon used antifreeze container.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	09-27-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 05/11/2018. OBSERVATION: Location: AST Compound - East of Service Area - Observed a 500-gallon Used-Oil with an illegible "Hazardous Waste" label. Location: Service Area - Observed an approximately 150-gallon Used-Oil drain rack that did not have a "Hazardous Waste/Empty Daily" label. Location: Storage Shed - Observed one 55-gallon Diesel & DEF container that has a "Hazardous Waste" label, however, the label was not filled out. CORRECTIVE ACTION: Immediately provide a complete Hazardous Waste label to the hazardous waste containers mentioned above. Submit a photo to ACDEH within 30 days that the facility has complied with the requirement.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	04-08-2021
Citation:	22 CCR 15 66265.192(a) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(a)
Violation Description:	Failure to obtain and maintain a written assessment reviewed and certified by an independent, qualified, professional engineer prior to placing the tank system in service. The written assessment shall state that, the new hazardous waste tank system has sufficient structural integrity, is acceptable for the transferring, storing and treating of hazardous waste, and that the tanks and containment system including the foundation, structural support, seams, connections, and pressure controls (if applicable) are suitably designed to meet the regulation.
Violation Notes:	A written hazardous waste tank assessment has not been obtained for the wate antifreeze tank prior to placing system into service. Obtain a written hazardous waste tank system assessment for the waste antifreeze tank in accordance with 22 CCR 15 66265.192 and submit a copy to the CUPA.

PAPE MACHINERY, INC. (Continued) **S121774908**

Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	04-09-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	The business failed to electronically submit complete and accurate chemical inventory information for all hazardous materials on site at or above reportable quantities.The following materials were either missing form the HMBP, listed under a different name, or were present in a larger volume than listed: 360 gallons of Cool Guard antifreeze, Hydrau 762.5 gallons, Gear Oil 80W90- 7,137 gallons and striping paint- quantity not calculated onsite. Add inventoried items not listed in HMBP. You may removed the items beneath the threshold at the facility.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	09-27-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 05/01/2018. OBSERVATIONS: The chemical inventory in CERS needs to be updated. CORRECTIVE ACTIONS: Add waste diesel/DEF (55 gal) and compressed gases stored in the "Storage Shed". Update the Largest Container size for acetylene to be 300cf and add propylene to "North Building, Machine Shop". Update the amount of oxygen stored in "North Building, Outside South Wall" to at least 5 X 281cf. Update the amount of wash rack detergent stored in the "Wash Rack" to 3 X 55 gal.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	04-08-2021
Citation:	HSC 6.67 25270.4.5 (a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5 (a)
Violation Description:	Failure to complete a review and evaluation of the SPCC Plan at least once every five years, document the completion of the review, and sign a statement as to whether the SPCC Plan will be amended.
Violation Notes:	Returned to compliance on 04/08/2021. Failure to perform and/or document the five-year review of the SPCC plan within the five-year timeframe. The plan was due for the five year review in 2019. Corrected. Facility performed the five-year review one year late in

PAPE MACHINERY, INC. (Continued) **S121774908**

	2020.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	06-19-2014
Citation:	22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description:	Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes:	Returned to compliance on 07/18/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	09-27-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 05/01/2018. OBSERVATION: Facility has not amended the SPCC plan when the facility had a change in design, construction, operation, or maintenance which affects the facility s discharge potential. Facility has added a large drain rack in the service area that holds more than 55 gallons of used oil. CORRECTIVE ACTION: Facility is to amend the SPCC as required and include the drainage rack in all sections of the required sections of the plan.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	09-27-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 05/01/2018. OBSERVATIONS: While the facility has been submitting annually to CERS, the chemical inventory in CERS is incorrect. CORRECTIVE ACTIONS: Please see violation #4 above for more details.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	09-27-2017

PAPE MACHINERY, INC. (Continued) **S121774908**

Citation:	HSC 6.95 25505.1 - California Health and Safety Code, Chapter 6.95, Section(s) 25505.1
Violation Description:	Failure to provide a copy of the business plan to the owner or the owner's agent within five working days after receiving a request for a copy from the owner or the owner's agent.
Violation Notes:	Returned to compliance on 05/11/2018. OBSERVATION: The facility leases/rents the property and has not notified the property owner in writing that a HMBP is required for the business and complied with all of its provisions. CORRECTIVE ACTION: Submit documentation to the CUPA demonstrating that you have complied with the requirement.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	06-19-2014
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 07/18/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	06-19-2014
Citation:	HSC 6.95 25504(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(c)
Violation Description:	Failure to include an adequate training program in the business plan, which is reasonable and appropriate for the size of the business and the nature of the hazardous material handled.
Violation Notes:	Returned to compliance on 07/18/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	04-08-2021
Citation:	22 CCR 12 66262.34(e) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(e)
Violation Description:	Failure to meet the following conditions of satellite accumulation regulations: Accumulate up to 55 gallons of hazardous waste or one quart of acute hazardous waste at or near the initial point of accumulation which was under the control of the operator. Total time hazardous waste can be accumulated onsite in any generator accumulation area is one year, i.e., the combined accmulation time at a satellite accumulation point and at a 90/180/270 accumulation area (depending on size of generator and distance transported), whichever comes first. The generator complies with section 66265.171, 66265.172, and 66265.173(a). The container must be clearly marked with the initial date that hazardous waste is first placed in the container and labelled with the words Hazardous Waste including specified information Container must be labelled with the date the satellite accumulation limit is reached and moved within three days after

PAPE MACHINERY, INC. (Continued) **S121774908**

	reaching the 55 gallon (or one quart) limit to a 90 day accumulation area 55 gallons (or one quart of acute hazardous waste) of waste per process may be accumulated
Violation Notes:	Returned to compliance on 05/08/2021. The facility operator failed to comply with all of the satellite accumulation requirements. The facility did not properly label the Satellite Accumulation Drum with the appropirate label: generator name, address physical form, hazard class EPA ID #, composition and accumulation start date. Submit a photo of the appropriately labeled drum if satellite accumulation is determined to be applicable to this waste process.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	04-08-2021
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to properly close tanks when making a claim of "permanently closed."
Violation Notes:	Owner/Operator failed to comply with one or more of the following permanent closure requirements: 1. All liquid and sludge has been removed from each container and connecting line. 2 All connecting lines and piping have been disconnected from the container blanked off. 3 All valves have been closed and locked. 4 Conspicuous signs have been posted on the container stating that it is a permanently closed container and denoting the date of closure. The four 500 gallon tanks that previously held hydraulic oil do not have a sign stating that they are permanently closed with the date. Ensure that all fluids and sludge have been removed from the tank and place a conspicuous sign stating that the tanks are each permanently closed with the closure date.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	06-19-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to prepare and implement a Spill Prevention Control and Countermeasure (SPCC) Plan .
Violation Notes:	Returned to compliance on 07/18/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	399076
Site Name:	Pape Machinery, Inc.
Violation Date:	09-27-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to include in the SPCC plan and document discharge prevention briefings for oil-handling personnel at least once a year, including, but not limited to, known discharges, failures, and malfunctioning

PAPE MACHINERY, INC. (Continued) **S121774908**

components.
Violation Notes: Returned to compliance on 05/11/2018. OBSERVATION: Facility failed to schedule and conduct spill prevention briefings at least once a year. CORRECTIVE ACTION: Conduct spill prevention briefings annually. Provide compliance verification.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Site ID: 399076
Site Name: Pape Machinery, Inc.
Violation Date: 06-19-2014
Citation: HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description: Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes: Returned to compliance on 07/18/2014.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 399076
Site Name: Pape Machinery, Inc.
Violation Date: 06-19-2014
Citation: 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description: Failure to properly close hazardous waste containers when not in active use.
Violation Notes: Returned to compliance on 07/18/2014.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 399076
Site Name: Pape Machinery, Inc.
Violation Date: 04-08-2021
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to complete and maintain at the facility the Substantial Harm Criteria certification form when owner or operator determines that the facility could not be reasonably expected to cause substantial harm to the environment.
Violation Notes: Returned to compliance on 04/08/2021. Failure to complete and maintain at the facility the Substantial Harm Criteria certification form when the owner or operator determined that the facility could not be reasonably expected to cause substantial harm to the environment. Complete and maintain at the facility the Substantial Harm Criteria certification form. Corrected prior to issuance of report.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Site ID: 399076
Site Name: Pape Machinery, Inc.
Violation Date: 06-19-2014
Citation: HSC 6.67 25270.6(a)(2) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.6(a)(2)

PAPE MACHINERY, INC. (Continued) **S121774908**

Violation Description: Failure to submit a Tank Facility Statement or Business Plan.
Violation Notes: Returned to compliance on 07/18/2014.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Site ID: 399076
Site Name: Pape Machinery, Inc.
Violation Date: 06-19-2014
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to maintain uniform hazardous waste manifest, consolidated manifest, or bills of lading copies for three years.
Violation Notes: Returned to compliance on 07/18/2014.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 399076
Site Name: Pape Machinery, Inc.
Violation Date: 06-19-2014
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to schedule and conduct spill prevention briefings at least once a year.
Violation Notes: Returned to compliance on 07/18/2014.
Violation Division: Alameda County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-08-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION AT EQUIPMENT RENTAL FACILITY. FACILITY STORES HAZARDOUS MATERIALS FOR BOTH RETAIL SALE, USE IN THEIR EQUIPMENT, AND FOR WASTE FROM EQUIPMENT MAINTENANCE. FACILITY STORES GASES FOR WELDING AND HAS APPROXIMATELY A DOZEN EMPTY OR UNUSED CONTAINERS OF GAS THAT THEY HAVE NOT BEEN ABLE TO PROPERLY DISPOSE.
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-08-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION FOR APSA, HAZ WASTE GENERATOR, HMBP, AND WASTE TIRE PROGRAMS. PERMISIN FOR INSPECTIONS PROVIDED BY JANEL BIANCHIN OF BAJADA GEOSCIENCES, INC. FACILITY HAS ONE 2,000-GALLON RED DIESEL TANK AND A SPLIT 1,000 GALLON USED OIL TANK. THE TANKS ARE CONCRETE CONVAULT TANKS WITH SECONDARY CONTAINMENT, SPILL CONTAINERS, LEVEL GAUGES, EMERGENCY AND NORMAL VENTS. THE TANKS ARE INSPECTED DAILY BY FACILITY PERSONNEL AND LOGGED ON A SINGLE PAGE INSPECTION SHEET ALONG WITH THE HAZARDOUS WASTE DAILY TANK INSPECTION.
Eval Division: Alameda County Environmental Health

PAPE MACHINERY, INC. (Continued) **S121774908**

Eval Program:	APSA
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-19-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	HW GENERATOR INSPECTION.
Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-27-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On the Business Owner/Operator Information in CERS, the secondary emergency contact, Don Quillen, is no longer with the company. Please update CERS with the correct secondary emergency contact person. Two Emergency Response Plans have been submitted to CERS. One is the "Consolidated Emergency Response/Contingency Plan". This plan incorrectly lists the Alameda County CUPA phone number as (510) 567-6780. This plan must update the CUPA phone number to be (510) 567-6700. The second plan "Emergency Response Plan for Pape Machinery, Inc. - Newark" also lists Don Quillen and Newark Fire Department. Newark Fire Department is now the Alameda County Fire Department. Please update accordingly. All violations noted in this HMBP inspection report are to be corrected within 30 days and proof of those corrections submitted to this office in the same time frame. CERTIFICATION OF RE TURN TO COMPLIANCE I certify that the violation(s) noted in this HMBP inspection report have [Truncated]
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-08-2021
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION OF HAZARDOUS WASTE GENERATOR PROGRAM. FACILITY GENERATES USED OIL IN A SPLIT CONVAULT TANK (TWO 500-GALLON TANKS) THAT IS DOUBLE-WALLED AND IN COVERED TERTIARY CONTAINMENT. TANK IS MONITORED DAILY BY FACILITY PERSONNEL AND EACH TIME THE TANK IS FILLED, THE FLUID LEVEL IS MONITORED BY CHECKING THE TANK LEVEL ALONG WITH THE GAUGE (AS DESCRIBED BY FACILITY PERSONNEL). DAILY LOGS OF INSPECTION ARE MAINTAINED. WASTE ANTIFREEZE IS ALSO GENERATED AND HELD IN A POLY TANK. CONTAINERS OF NEW PRODUCT OIL ARE DRAINED INTO LARGE OPEN DRAIN RACKS WHICH ARE EMPTIED DAILY INTO THE USED OIL TANKS AND ARE APPROPRIATELY LABELED AS USED OIL.
Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-19-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency

PAPE MACHINERY, INC. (Continued) **S121774908**

Eval Notes:	APSA INSPECTION.
Eval Division:	Alameda County Environmental Health
Eval Program:	APSA
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-19-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	HMBP INSPECTION.
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-27-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Alameda County Dept. of Environmental Health (ACDEH) inspectors arrived on site at Pape Machinery, Inc. 38600 Cedar Blvd. Newark, CA 94560 to conduct a routine inspection of Hazardous Materials Business Plan (HMBP), Hazardous Waste Generator (HWG), Aboveground Petroleum Storage Act (APSA), and Waste Tire (WT) programs. ACDEH met with Daniel Radonski the facility's environmental and project manager who granted consent and assisted ACDEH with this inspection. - According to the facility representative (Dan Radonski) the number of employees handling hazardous waste are 10-15 people. All violations noted in this HWG inspection report are to be corrected within 30 days and proof of those corrections submitted in the same time frame.
Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-27-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	SPCC Plan was signed on 7/17/14 by Dan Radonsky. Facility must include the Shop Area drain rack into section 1 Oil Storage Containers, Table G4 and include it where necessary in the plan. All violations noted in this Aboveground Petroleum Storage Tank inspection report are to be corrected within 30 days and proof of those corrections submitted to this office in the same time frame. CERTIFICATION OF RETURN TO COMPLIANCE I certify that the violation(s) noted in this Aboveground Petroleum Storage Tank inspection report have been corrected. I have personally examined any documentation attached to the certification to establish that the violations have been corrected. Facility Name: _____ Facility Address: _____ PRINT: _____ SIGN: _____ TITLE: _____ DATE: [Truncated]
Eval Division:	Alameda County Environmental Health
Eval Program:	APSA
Eval Source:	CERS,

PAPE MACHINERY, INC. (Continued) **S121774908**

Coordinates:
- Site ID: 399076
- Facility Name: Pape Machinery, Inc.
- Env Int Type Code: APSA
- Program ID: 10418017
- Coord Name: Not reported
- Ref Point Type Desc: Center of a facility or station.,
- Latitude: 37.532090
- Longitude: -122.008060

Affiliation:
- Affiliation Type Desc: Document Preparer
- Entity Name: Janet Bianchin
- Entity Title: Not reported
- Affiliation Address: Not reported
- Affiliation City: Not reported
- Affiliation State: Not reported
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: ,

- Affiliation Type Desc: Parent Corporation
- Entity Name: Pape Machinery, Inc.
- Entity Title: Not reported
- Affiliation Address: Not reported
- Affiliation City: Not reported
- Affiliation State: Not reported
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: ,

- Affiliation Type Desc: Environmental Contact
- Entity Name: Janet Bianchin
- Entity Title: Not reported
- Affiliation Address: 1300 Market St Suite 201
- Affiliation City: Redding
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: 96001
- Affiliation Phone: ,

- Affiliation Type Desc: CUPA District
- Entity Name: Alameda County Env Health
- Entity Title: Not reported
- Affiliation Address: 1131 Harbor Parkway, Suite 240
- Affiliation City: Alameda
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: 94502-6577
- Affiliation Phone: (510) 567-6700,

- Affiliation Type Desc: Identification Signer
- Entity Name: Janet Bianchin
- Entity Title: Environmental Consultant
- Affiliation Address: Not reported
- Affiliation City: Not reported

PAPE MACHINERY, INC. (Continued) **S121774908**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Pap Group, Inc.
Entity Title:	Not reported
Affiliation Address:	P.O. Box 407
Affiliation City:	Eugene
Affiliation State:	OR
Affiliation Country:	United States
Affiliation Zip:	97440
Affiliation Phone:	(541) 341-3344,
Affiliation Type Desc:	Operator
Entity Name:	Pap Machinery
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 790-3600,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	38600 Cedar Blvd
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,

B25 **BENCHMARK AUTOBODY INC** **RCRA-SQG 1000170972**
WNW **38 456 CEDAR BLVD** **FINDS CAD982023319**
< 1/8 **NEWARK, CA 94560** **ECHO**
0.051 mi.
270 ft. **Site 1 of 19 in cluster B**

Relative: **Higher**

Actual: **33 ft.**

RCRA-SQG:

Date Form Received by Agency:	19960901
Handler Name:	BENCHMARK AUTOBODY INC
Handler Address:	38 456 CEDAR BLVD
Handler City,State,Zip:	NEWARK, CA 94560
EPA ID:	CAD982023319
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator

BENCHMARK AUTOBODY INC (Continued) **1000170972**

Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	2
Mailing Address:	38456 CEDAR BLVD
Mailing City,State,Zip:	NEWARK, CA 94560
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No

BENCHMARK AUTOBODY INC (Continued) **1000170972**

Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 20020627
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: Not reported
Manifest Broker: Not reported
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: NOT REQUIRED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: D BARNES
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19960901
Handler Name: BENCHMARK AUTOBODY INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19870811
Handler Name: BENCHMARK AUTOBODY INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No

BENCHMARK AUTOBODY INC (Continued) **1000170972**

Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002779654

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000170972
Registry ID: 110002779654
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002779654
Name: BENCHMARK AUTOBODY INC
Address: 38 456 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560

B26 **ZIPIN OUT AUTO SERVICES** **RCRA NonGen / NLR** **1026056028**
WNW **38472 CEDAR BLVD** **CAL000452214**
< 1/8 **NEWARK, CA 94560**
0.093 mi.
492 ft. **Site 2 of 19 in cluster B**

Relative: Higher
Actual: 33 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 20200128
Handler Name: ZIPIN OUT AUTO SERVICES
Handler Address: 38472 CEDAR BLVD
Handler City,State,Zip: NEWARK, CA 94560
EPA ID: CAL000452214
Contact Name: ABDUL KHALIQ
Contact Address: 38472 CEDAR BLVD
Contact City,State,Zip: NEWARK, CA 94560

ZIPIN OUT AUTO SERVICES (Continued) **1026056028**

Contact Telephone:	510-792-6699
Contact Fax:	Not reported
Contact Email:	ADMIN@SIPINOUT.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	38472 CEDAR BLVD
Mailing City,State,Zip:	NEWARK, CA 94560
Owner Name:	ABDUL KHALIQ
Owner Type:	Other
Operator Name:	ABDUL KHALIQ
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

ZIPIN OUT AUTO SERVICES (Continued) **1026056028**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200210
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ABDUL KHALIQ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4185 DELAWARE DR
Owner/Operator City,State,Zip:	FREMONT, CA 94538
Owner/Operator Telephone:	510-760-3875
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ABDUL KHALIQ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38472 CEDAR BLVD
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-792-6699
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20200128
Handler Name: ZIPIN OUT AUTO SERVICES	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported

ZIPIN OUT AUTO SERVICES (Continued) **1026056028**

Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B27 **VIERRA P J INC** **RCRA NonGen / NLR** **1000368650**
WNW **38592 CEDAR BLVD** **FINDS** **CAD073928137**
< 1/8 **NEWARK, CA 94560** **ECHO**
0.093 mi.
492 ft. **Site 3 of 19 in cluster B**

Relative: **Higher**
Actual: **33 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		19810310
Handler Name:	VIERRA P J INC	
Handler Address:		38592 CEDAR BLVD
Handler City,State,Zip:		NEWARK, CA 94560
EPA ID:		CAD073928137
Contact Name:		ENVIRONMENTAL MANAGER
Contact Address:		38592 CEDAR BLVD
Contact City,State,Zip:		NEWARK, CA 94560
Contact Telephone:		415-471-4612
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Other
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA
State District:		2
Mailing Address:		33791 SINSBURY WAY
Mailing City,State,Zip:		UNION CITY, CA 94587
Owner Name:		NOT REQUIRED
Owner Type:		Private
Operator Name:		NOT REQUIRED
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		Yes
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No

VIERRA P J INC (Continued) **1000368650**

Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212

VIERRA P J INC (Continued) **1000368650**

Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19810310
Handler Name: VIERRA P J INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID: 110002657410

Click Here:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

VIERRA P J INC (Continued) **1000368650**

ECHO:
Envid: 1000368650
Registry ID: 110002657410
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002657410
Name: VIERRA P J INC
Address: 38592 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560

B28 **FREMONT PAVING** **LUST** **S103723085**
WNW **38370 CEDAR BLVD** **CERS HAZ WASTE** **N/A**
< 1/8 **NEWARK, CA 94560** **Cortese**
0.093 mi. **HIST CORTESE**
492 ft. **Site 4 of 19 in cluster B** **CERS**

Relative: Higher
Actual: 33 ft.

LUST:
Name: FREMONT PAVING
Address: 38370 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600102260
Global Id: T0600102260
Latitude: 37.5331241
Longitude: -122.0106429
Status: Open - Remediation
Status Date: 03/18/2021
Case Worker: THC
RB Case Number: 01-2452
Local Agency: ALAMEDA COUNTY WATER DISTRICT
File Location: Not reported
Local Case Number: TT0590
Potential Media Affect: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: Benzene, Ethylbenzene, Gasoline, MTBE / TBA / Other Fuel Oxygenates, Toluene, Xylene
Site History: The subject property is located west of the Interstate 880 Freeway and south of Central Avenue at 38370 Cedar Boulevard, Fremont, California (Figure 1). The property is relatively flat. Groundwater flow direction was previously calculated to be southeast at a gradient of 0.045 foot per foot. The reported groundwater flow direction is consistent with the anticipated regional trend. Six USTs which had stored diesel and gasoline fuels were removed in 1989. Confirmation soil samples collected beneath the USTs reported up to 7,700 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg), up to 53 mg/kg total petroleum hydrocarbons as diesel (TPHd), and varying concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX). Soil was excavated to a depth of 21 feet below ground surface (bgs) and approximately 100 cubic yards of soil was stockpiled onsite. This soil was aerated onsite and two confirmation stockpile soil samples reported TPHg concentrations decreased to 1.7 to 3.1 mg/kg and the only reported BTEX was 0.3 mg/kg xylenes. The stockpiled soil was subsequently used as backfill. Grab groundwater samples in four of six soil borings reported TPHg from 260 to 48,000 micrograms per Liter (g/L), TPHd from 130 to 31,000 g/L, and concentrations of BTEX from 0.72 to 10,000 g/L. Methyl tertiary butyl ether (MTBE) was reported at concentrations of 3.5 to 26 g/L in the two downgradient wells. Periodic groundwater monitoring has been conducted on an approximate quarterly basis since

FREMONT PAVING (Continued) **S103723085**

March 2001. Groundwater gradients and flow directions vary considerably.

LUST:
Global Id: T0600102260
Contact Type: Local Agency Caseworker
Contact Name: EILEEN CHEN
Organization Name: ALAMEDA COUNTY WATER DISTRICT
Address: 43885 SOUTH GRIMMER BLVD.
City: FREMONT
Email: eileen.chen@acwd.com
Phone Number: Not reported

Global Id: T0600102260
Contact Type: Regional Board Caseworker
Contact Name: TORREN CAMPBELL
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 Clay Street Suite 1400
City: OAKLAND
Email: torren.campbell@waterboards.ca.gov
Phone Number: 5106222470

LUST:
Global Id: T0600102260
Action Type: ENFORCEMENT
Date: 05/25/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0600102260
Action Type: ENFORCEMENT
Date: 06/19/2014
Action: File review

Global Id: T0600102260
Action Type: ENFORCEMENT
Date: 06/17/2020
Action: Verbal Communication

Global Id: T0600102260
Action Type: ENFORCEMENT
Date: 04/03/2007
Action: Technical Correspondence / Assistance / Other

Global Id: T0600102260
Action Type: ENFORCEMENT
Date: 07/31/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0600102260
Action Type: ENFORCEMENT
Date: 03/10/2009
Action: Meeting

Global Id: T0600102260
Action Type: ENFORCEMENT
Date: 06/29/2016
Action: File review

FREMONT PAVING (Continued) **S103723085**

Global Id: T0600102260
Action Type: Other
Date: 02/18/1999
Action: Leak Discovery

Global Id: T0600102260
Action Type: RESPONSE
Date: 10/06/2005
Action: Soil and Water Investigation Report

Global Id: T0600102260
Action Type: RESPONSE
Date: 02/02/2021
Action: Other Workplan - Regulator Responded

Global Id: T0600102260
Action Type: RESPONSE
Date: 03/26/2021
Action: Corrective Action Plan / Remedial Action Plan - Regulator Responded

Global Id: T0600102260
Action Type: REMEDIATION
Date: 02/16/1989
Action: Excavation

Global Id: T0600102260
Action Type: RESPONSE
Date: 04/22/2020
Action: Site Assessment Report

Global Id: T0600102260
Action Type: RESPONSE
Date: 07/03/2018
Action: Site Assessment Report

Global Id: T0600102260
Action Type: RESPONSE
Date: 09/16/2020
Action: Correspondence

Global Id: T0600102260
Action Type: RESPONSE
Date: 02/05/1999
Action: Correspondence

Global Id: T0600102260
Action Type: RESPONSE
Date: 02/05/1999
Action: Correspondence

Global Id: T0600102260
Action Type: RESPONSE
Date: 12/21/2018
Action: Other Workplan - Regulator Responded

Global Id: T0600102260
Action Type: ENFORCEMENT

FREMONT PAVING (Continued) **S103723085**

Date: 04/18/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0600102260
Action Type: ENFORCEMENT
Date: 03/31/2021
Action: Technical Correspondence / Assistance / Other

Global Id: T0600102260
Action Type: Other
Date: 03/25/1989
Action: Leak Reported

Global Id: T0600102260
Action Type: RESPONSE
Date: 10/01/2019
Action: Site Assessment Report

Global Id: T0600102260
Action Type: ENFORCEMENT
Date: 08/12/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0600102260
Action Type: Other
Date: 02/16/1989
Action: Leak Stopped

LUST:
Global Id: T0600102260
Status: Open - Case Begin Date
Status Date: 02/18/1999

Global Id: T0600102260
Status: Open - Site Assessment
Status Date: 02/18/1999

Global Id: T0600102260
Status: Open - Remediation
Status Date: 03/18/2021

LUST REG 2:
Region: 2
Facility Id: 01-2452
Facility Status: Leak being confirmed
Case Number: 0590
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 2/18/1999
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported

FREMONT PAVING (Continued) **S103723085**

Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CERS HAZ WASTE:
Name: FREMONT PAVING
Address: 38370 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Site ID: 117974
CERS ID: 10002451
CERS Description: Hazardous Waste Generator

CORTESE:
Name: FREMONT PAVING
Address: 38370 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600102260
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: OPEN - REMEDIATION
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: FREMONT PAVING
edr_fadd1: 38370 CEDAR
City,State,Zip: NEWARK, CA 94560
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2452

CERS:
Name: FREMONT PAVING
Address: 38370 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Site ID: 117974
CERS ID: 10002451
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 117974

FREMONT PAVING (Continued) **S103723085**

Site Name:	FREMONT PAVING
Violation Date:	07-24-2015
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 12/29/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description:	Failure to ensure employees are familiar with the handling and compliance of hazardous waste regulations and emergency response.
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	22 CCR 12 66262.23(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.23(a)
Violation Description:	Failure to properly complete the Hazardous Waste manifest.
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 10/11/2017. OBSERVATION: The annotated site map submitted to the CUPA does not include the active used and new oil accumulation and storage areas. The oil storage is shown in th shed only. The map does not include a north arrow, evacuation meeting area, loading areas, sanitary and storm drains, emergency equipment (spill control, fire extinguishers etc.). CORRECTIVE ACTION: Revise the annotated Site Map to include all required content and submit electronically in the California Environmental Reporting System (CERS).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING

FREMONT PAVING (Continued) **S103723085**

Violation Date:	01-06-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 01/14/2020.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 10/11/2017. OBSERVATION: Initial and annual training documentation for all applicable employees was not available. Six workers completed a 40 hour hazwopper training within the last year but site specific and on-site personnel have not been trained in the last year. CORRECTIVE ACTION: Submit documentation to the CUPA demonstrating that employees have received training on safe handling of hazardous materials and the Emergency Response Plan. Ensure that annual training for the HMBP topics are covered for applicable employees annually.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	40 CFR 1 265.174 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.174
Violation Description:	Failure to inspect hazardous waste storage areas at least weekly and look for leaking and deteriorating containers.
Violation Notes:	Returned to compliance on 10/06/2017. "OBSERVATION: Used oil containers are not being inspected. The "oil shed" had open and unlabled containers that should have been identified during the weekly inspections and corrected. The generator shall inspect areas used for container storage or transfer, at least weekly, looking for leaking containers and for deterioration of containers and the containment system caused by corrosion and other factors. " CORRECTIVE ACTION: Ensure weekly inspections are completed and any findings of deficiencies addressed. Send ACDEH information detailing how weekly inspections will be completed.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014

FREMONT PAVING (Continued) **S103723085**

Citation:	22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description:	Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 12/06/2017. OBSERVATION: In the oil shed, used oil was stored in and open five gallon plastic bucket, a 55-gallon drum with contaminated rags was not labeled or properly closed (no ring on open top 55-gallon drum). Drums had oil accumulated on top of drums. CORRECTIVE ACTION: Properly contain all hazardous materials, close drums, ensure all materials are on the inside not outside of drums. Empty five gallon open buckets and properly dispose of the contents and the bucket(s).
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	HSC 6.95 25505.1 - California Health and Safety Code, Chapter 6.95, Section(s) 25505.1
Violation Description:	Failure to provide a copy of the business plan to the owner or the owner's agent within five working days after receiving a request for a copy from the owner or the owner's agent.
Violation Notes:	Returned to compliance on 08/31/2017.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	19 CCR 4 2729.2(a)(1) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(1)
Violation Description:	Owner/Operator failed to complete and/or submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

FREMONT PAVING (Continued) **S103723085**

Site ID: 117974
Site Name: FREMONT PAVING
Violation Date: 06-05-2014
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 07/25/2014.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Violation Date: 06-05-2014
Citation: HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description: Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes: Returned to compliance on 07/25/2014.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Violation Date: 08-31-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 10/11/2017. See items 4 and 6 for details of this violation.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Violation Date: 08-31-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 10/06/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for propane to the CUPA. Three 55-gallon steel drums of racing fuel was present on-site and not included in the inventory. The office manager stated that these materials would be removed. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS). Send documentation (photo) demonstrating that the racing fuel has been removed from the

FREMONT PAVING (Continued) **S103723085**

site to ACDEH.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Violation Date: 06-05-2014
Citation: 19 CCR 4 2729.2(a)(3) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(3)
Violation Description: Failure to complete and/or submit an annotated site map if required by CUPA.
Violation Notes: Returned to compliance on 07/25/2014.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Violation Date: 08-31-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 08/31/2017. OBSERVATION: Two 5-gallon drums of used oil and one drum of filters were properly labeled in the shop areas. Drums in the "oil shed" were not properly labeled and included 3 55-gallon drums with used oil, 1 55- gallon drum with oil filters and one open top 55-gallon drum containing rags contaminated with used oil and one open five gallon plastic bucket approximately 2/3 full of used oil. All hazardous waste containers shall be marked with the following information: 1) the words Hazardous Waste ; 2) name and address of generator; 3) hazardous properties; 4) physical state; 5) composition (contents); 6) accumulation start date. CORRECTIVE ACTION: Labels were filled out and applied to the drums in the "oil shed" during the inspection - CORRECTED ON SITE. Continue to ensure all hazardous waste containers are properly labeled. Dispose of oil in the oil shed as the accumulation start date can not be determined. Send ACDEH documentation that all hazardous waste from the "oil [Truncated]
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Violation Date: 11-05-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 11/20/2018.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP

FREMONT PAVING (Continued) **S103723085**

Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	HSC 6.95 25504(b) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(b)
Violation Description:	Failure to include adequate emergency response procedures in the business plan for a release or threatened release.
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description:	Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	40 CFR 1 265.171 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.171
Violation Description:	Failure to accumulate hazardous waste in a container that is in good condition.
Violation Notes:	Returned to compliance on 12/06/2017. OBSERVATION: In the oil shed, used oil was stored in and open five gallon plastic bucket, a 55-gallon drum with contaminated rags was not labeled or properly closed (no ring on open top 55-gallon drum). Drums had oil accumulated on top of drums. CORRECTIVE ACTION: Properly contain all hazardous materials, close drums, ensure all materials are on the inside not outside of drums. Empty five gallon open buckets and properly dispose of the contents and the bucket.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

FREMONT PAVING (Continued) **S103723085**

Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description:	Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies.
Violation Notes:	Returned to compliance on 09/19/2018. "OBSERVATION: The Facility failed to properly train personnel who handle hazardous waste. All employees shall be trained within six months of assignment and take part in an annual review of the initial training received. The mechanic is the main person generating hazardous waste and has not received training at this facility. CORRECTIVE ACTION: Complete hazardous waste training for all employees who generate and/or handle hazardous waste and implement a plan to ensure initial and annual training is completed. Send ACDEH documentation that training has been completed and information on how you will ensure the training program is implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	04-13-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 04/18/2017.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	HSC 6.95 25503.5(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25503.5(a)
Violation Description:	Owner/Operator failed to establish and implement a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.

FREMONT PAVING (Continued) **S103723085**

Violation Notes: Returned to compliance on 10/11/2017. See item 12 for details of this violation.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Violation Date: 07-24-2013
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 06/05/2014.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Violation Date: 06-05-2014
Citation: HSC 6.95 25504(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(c)
Violation Description: Failure to include an adequate training program in the business plan, which is reasonable and appropriate for the size of the business and the nature of the hazardous material handled.
Violation Notes: Returned to compliance on 07/25/2014.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 04-13-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER/ADD VIOLATION
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-24-2013
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-24-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER
Eval Division: Alameda County Environmental Health

FREMONT PAVING (Continued) **S103723085**

Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-31-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine Hazardous Materials Business Plan (HMBP) inspection for Fremont Paving, 38370 Cedar Blvd. Newark. Kyle Keiper, Office Manager, granted permission to conduct the inspection, the inspection was completed on 9-6-17. The last HMBP submittal was completed on 4-18-2017.
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-05-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: GENERATE NOV LTR/ADDING VIOLATION IN EC
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 01-06-2020
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-31-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine Hazardous Waste, Small Quantity Generator (SQG) inspection for Fremont Paving, 38370 Cedar Blvd. Newark. Kyle Keiper, Office Manager, granted permission to conduct the inspection, the inspection was completed on 9-6-17. Wastes are generated from vehicle/equipment maintenance and include used oil, used filters and rags. Send documentation of all corrective actions to the Alameda County Department of Environmental Health (ACDEH) inspector by 10-11-2017.
Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-05-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HMBP INSPECTION.
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

FREMONT PAVING (Continued) **S103723085**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-05-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HW GENERATOR INSPECTION.
Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 117974
Site Name: FREMONT PAVING
Site Address: 38370 CEDAR BLVD
Site City: NEWARK
Site Zip: 94560
Enf Action Date: 07-27-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Site Address: 38370 CEDAR BLVD
Site City: NEWARK
Site Zip: 94560
Enf Action Date: 04-13-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Site Address: 38370 CEDAR BLVD
Site City: NEWARK
Site Zip: 94560
Enf Action Date: 12-30-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Coordinates:
Site ID: 117974
Facility Name: FREMONT PAVING
Env Int Type Code: LUSTCS
Program ID: T0600102260
Coord Name: Not reported
Ref Point Type Desc: Unknown,

FREMONT PAVING (Continued) **S103723085**

Latitude: 37.533124
Longitude: -122.010642

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Alameda County Env Health
Entity Title: Not reported
Affiliation Address: 1131 Harbor Parkway, Suite 240
Affiliation City: Alameda
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94502-6577
Affiliation Phone: (510) 567-6700,

Affiliation Type Desc: Identification Signer
Entity Name: Kyle Keiper
Entity Title: Office Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Fremont Paving Company Inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 797-3553,

Affiliation Type Desc: Legal Owner
Entity Name: Fremont Paving Company, INC.
Entity Title: Not reported
Affiliation Address: 38370 Cedar Blvd.
Affiliation City: Newark
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94560
Affiliation Phone: (510) 797-3553,

Affiliation Type Desc: Local Agency Caseworker
Entity Name: EILEEN CHEN - ALAMEDA COUNTY WATER DISTRICT
Entity Title: Not reported
Affiliation Address: 43885 SOUTH GRIMMER BLVD.
Affiliation City: FREMONT
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: FREMONT PAVING
Entity Title: Not reported

FREMONT PAVING (Continued) **S103723085**

Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Document Preparer
Entity Name: Kyle Keiper
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: Kyle Keiper
Entity Title: Not reported
Affiliation Address: 38370 Cedar Blvd.
Affiliation City: Newark
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94560
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 38370 Cedar Blvd.
Affiliation City: Newark
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94560
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker
Entity Name: SIMERPREET MATHARU - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 clay Street, Suite 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 5106222339,

Name: FREMONT PAVING
Address: 38370 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Site ID: 117974
CERS ID: T0600102260
CERS Description: Leaking Underground Storage Tank Cleanup Site

Violations:
Site ID: 117974
Site Name: FREMONT PAVING

FREMONT PAVING (Continued) **S103723085**

Violation Date:	07-24-2015
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 12/29/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description:	Failure to ensure employees are familiar with the handling and compliance of hazardous waste regulations and emergency response.
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	22 CCR 12 66262.23(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.23(a)
Violation Description:	Failure to properly complete the Hazardous Waste manifest.
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 10/11/2017. OBSERVATION: The annotated site map submitted to the CUPA does not include the active used and new oil accumulation and storage areas. The oil storage is shown in th shed only. The map does not include a north arrow, evacuation meeting area, loading areas, sanitary and storm drains, emergency equipment (spill control, fire extinguishers etc.). CORRECTIVE ACTION: Revise the annotated Site Map to include all required content and submit electronically in the California Environmental Reporting System (CERS).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	01-06-2020

FREMONT PAVING (Continued) **S103723085**

Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 01/14/2020.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 10/11/2017. OBSERVATION: Initial and annual training documentation for all applicable employees was not available. Six workers completed a 40 hour hazwopper training within the last year but site specific and on-site personnel have not been trained in the last year. CORRECTIVE ACTION: Submit documentation to the CUPA demonstrating that employees have received training on safe handling of hazardous materials and the Emergency Response Plan. Ensure that annual training for the HMBP topics are covered for applicable employees annually.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	40 CFR 1 265.174 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.174
Violation Description:	Failure to inspect hazardous waste storage areas at least weekly and look for leaking and deteriorating containers.
Violation Notes:	Returned to compliance on 10/06/2017. "OBSERVATION: Used oil containers are not being inspected. The "oil shed" had open and unlabled containers that should have been identified during the weekly inspections and corrected. The generator shall inspect areas used for container storage or transfer, at least weekly, looking for leaking containers and for deterioration of containers and the containment system caused by corrosion and other factors. " CORRECTIVE ACTION: Ensure weekly inspections are completed and any findings of deficiencies addressed. Send ACDEH information detailing how weekly inspections will be completed.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	22 CCR 16 66266.130 - California Code of Regulations, Title 22,

FREMONT PAVING (Continued) **S103723085**

	Chapter 16, Section(s) 66266.130
Violation Description:	Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 12/06/2017. OBSERVATION: In the oil shed, used oil was stored in and open five gallon plastic bucket, a 55-gallon drum with contaminated rags was not labeled or properly closed (no ring on open top 55-gallon drum). Drums had oil accumulated on top of drums. CORRECTIVE ACTION: Properly contain all hazardous materials, close drums, ensure all materials are on the inside not outside of drums. Empty five gallon open buckets and properly dispose of the contents and the bucket(s).
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	HSC 6.95 25505.1 - California Health and Safety Code, Chapter 6.95, Section(s) 25505.1
Violation Description:	Failure to provide a copy of the business plan to the owner or the owner's agent within five working days after receiving a request for a copy from the owner or the owner's agent.
Violation Notes:	Returned to compliance on 08/31/2017.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	19 CCR 4 2729.2(a)(1) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(1)
Violation Description:	Owner/Operator failed to complete and/or submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974

FREMONT PAVING (Continued) **S103723085**

Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description:	Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/11/2017. See items 4 and 6 for details of this violation.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/06/2017. OBSERVATION: The facility has not submitted the Hazardous Materials Inventory Chemical Description page for propane to the CUPA. Three 55-gallon steel drums of racing fuel was present on-site and not included in the inventory. The office manager stated that these materials would be removed. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for all materials listed above electronically in the California Environmental Reporting System (CERS). Send documentation (photo) demonstrating that the racing fuel has been removed from the site to ACDEH.

FREMONT PAVING (Continued) **S103723085**

Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Violation Date: 06-05-2014
Citation: 19 CCR 4 2729.2(a)(3) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(3)
Violation Description: Failure to complete and/or submit an annotated site map if required by CUPA.
Violation Notes: Returned to compliance on 07/25/2014.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Violation Date: 08-31-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 08/31/2017. OBSERVATION: Two 5-gallon drums of used oil and one drum of filters were properly labeled in the shop areas. Drums in the "oil shed" were not properly labeled and included 3 55-gallon drums with used oil, 1 55- gallon drum with oil filters and one open top 55-gallon drum containing rags contaminated with used oil and one open five gallon plastic bucket approximately 2/3 full of used oil. All hazardous waste containers shall be marked with the following information: 1) the words Hazardous Waste ; 2) name and address of generator; 3) hazardous properties; 4) physical state; 5) composition (contents); 6) accumulation start date. CORRECTIVE ACTION: Labels were filled out and applied to the drums in the "oil shed" during the inspection - CORRECTED ON SITE. Continue to ensure all hazardous waste containers are properly labeled. Dispose of oil in the oil shed as the accumulation start date can not be determined. Send ACDEH documentation that all hazardous waste from the "oil [Truncated]
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Violation Date: 11-05-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 11/20/2018.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

FREMONT PAVING (Continued) **S103723085**

Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	HSC 6.95 25504(b) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(b)
Violation Description:	Failure to include adequate emergency response procedures in the business plan for a release or threatened release.
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description:	Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	40 CFR 1 265.171 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.171
Violation Description:	Failure to accumulate hazardous waste in a container that is in good condition.
Violation Notes:	Returned to compliance on 12/06/2017. OBSERVATION: In the oil shed, used oil was stored in and open five gallon plastic bucket, a 55-gallon drum with contaminated rags was not labeled or properly closed (no ring on open top 55-gallon drum). Drums had oil accumulated on top of drums. CORRECTIVE ACTION: Properly contain all hazardous materials, close drums, ensure all materials are on the inside not outside of drums. Empty five gallon open buckets and properly dispose of the contents and the bucket.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	117974
Site Name:	FREMONT PAVING

FREMONT PAVING (Continued) **S103723085**

Violation Date:	08-31-2017
Citation:	40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description:	Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies.
Violation Notes:	Returned to compliance on 09/19/2018. "OBSERVATION: The Facility failed to properly train personnel who handle hazardous waste. All employees shall be trained within six months of assignment and take part in an annual review of the initial training received. The mechanic is the main person generating hazardous waste and has not received training at this facility. CORRECTIVE ACTION: Complete hazardous waste training for all employees who generate and/or handle hazardous waste and implement a plan to ensure initial and annual training is completed. Send ACDEH documentation that training has been completed and information on how you will ensure the training program is implemented.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	04-13-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 04/18/2017.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	06-05-2014
Citation:	HSC 6.95 25503.5(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25503.5(a)
Violation Description:	Owner/Operator failed to establish and implement a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes:	Returned to compliance on 07/25/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	117974
Site Name:	FREMONT PAVING
Violation Date:	08-31-2017
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/11/2017. See item 12 for details of this violation.

FREMONT PAVING (Continued) **S103723085**

Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Violation Date: 07-24-2013
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 06/05/2014.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Violation Date: 06-05-2014
Citation: HSC 6.95 25504(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(c)
Violation Description: Failure to include an adequate training program in the business plan, which is reasonable and appropriate for the size of the business and the nature of the hazardous material handled.
Violation Notes: Returned to compliance on 07/25/2014.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 04-13-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER/ADD VIOLATION
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-24-2013
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-24-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

FREMONT PAVING (Continued) **S103723085**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-31-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Routine Hazardous Materials Business Plan (HMBP) inspection for Fremont Paving, 38370 Cedar Blvd. Newark. Kyle Keiper, Office Manager, granted permission to conduct the inspection, the inspection was completed on 9-6-17. The last HMBP submittal was completed on 4-18-2017.
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	11-05-2018
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	GENERATE NOV LTR/ADDING VIOLATION IN EC
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	01-06-2020
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-31-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Routine Hazardous Waste, Small Quantity Generator (SQG) inspection for Fremont Paving, 38370 Cedar Blvd. Newark. Kyle Keiper, Office Manager, granted permission to conduct the inspection, the inspection was completed on 9-6-17. Wastes are generated from vehicle/equipment maintenance and include used oil, used filters and rags. Send documentation of all corrective actions to the Alameda County Department of Environmental Health (ACDEH) inspector by 10-11-2017.
Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-05-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	HMBP INSPECTION.
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-05-2014

FREMONT PAVING (Continued) **S103723085**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HW GENERATOR INSPECTION.
Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 117974
Site Name: FREMONT PAVING
Site Address: 38370 CEDAR BLVD
Site City: NEWARK
Site Zip: 94560
Enf Action Date: 07-27-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Site Address: 38370 CEDAR BLVD
Site City: NEWARK
Site Zip: 94560
Enf Action Date: 04-13-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 117974
Site Name: FREMONT PAVING
Site Address: 38370 CEDAR BLVD
Site City: NEWARK
Site Zip: 94560
Enf Action Date: 12-30-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Coordinates:
Site ID: 117974
Facility Name: FREMONT PAVING
Env Int Type Code: LUSTCS
Program ID: T0600102260
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 37.533124
Longitude: -122.010642

FREMONT PAVING (Continued) **S103723085**

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Alameda County Env Health
Entity Title:	Not reported
Affiliation Address:	1131 Harbor Parkway, Suite 240
Affiliation City:	Alameda
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94502-6577
Affiliation Phone:	(510) 567-6700,
Affiliation Type Desc:	Identification Signer
Entity Name:	Kyle Keiper
Entity Title:	Office Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Fremont Paving Company Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 797-3553,
Affiliation Type Desc:	Legal Owner
Entity Name:	Fremont Paving Company, INC.
Entity Title:	Not reported
Affiliation Address:	38370 Cedar Blvd.
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94560
Affiliation Phone:	(510) 797-3553,
Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	EILEEN CHEN - ALAMEDA COUNTY WATER DISTRICT
Entity Title:	Not reported
Affiliation Address:	43885 SOUTH GRIMMER BLVD.
Affiliation City:	FREMONT
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	FREMONT PAVING
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported

FREMONT PAVING (Continued) **S103723085**

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Document Preparer
Entity Name:	Kyle Keiper
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Kyle Keiper
Entity Title:	Not reported
Affiliation Address:	38370 Cedar Blvd.
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	38370 Cedar Blvd.
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,
Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	SIMERPREET MATHARU - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 clay Street, Suite 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	5106222339,

B29 **FRANK FREITAS** **RCRA NonGen / NLR** **1026053310**
WNW **38592 CEDAR BLVD** **CAC003060209**
< 1/8 **NEWARK, CA 94560**
0.093 mi.
492 ft. **Site 5 of 19 in cluster B**

Relative: **Higher**
Actual: **33 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20200316
Handler Name:	FRANK FREITAS	
Handler Address:		38592 CEDAR BLVD
Handler City,State,Zip:		NEWARK, CA 94560
EPA ID:		CAC003060209
Contact Name:		FRANK FREITAS

FRANK FREITAS (Continued) **1026053310**

Contact Address:	38592 CEDAR BLVD
Contact City,State,Zip:	NEWARK, CA 94560
Contact Telephone:	510-366-7980
Contact Fax:	Not reported
Contact Email:	FFREITAS01@AOL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	38592 CEDAR BLVD.
Mailing City,State,Zip:	NEWARK, CA 94560
Owner Name:	FRANK FREITAS
Owner Type:	Other
Operator Name:	FRANK FREITAS
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking

FRANK FREITAS (Continued) **1026053310**

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200320
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	FRANK FREITAS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38592 CEDAR BLVD
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-366-7980
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	FRANK FREITAS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38592 CEDAR BLVD
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-366-7980
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20200316
Handler Name: FRANK FREITAS	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

FRANK FREITAS (Continued) **1026053310**

Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 236220
NAICS Description: COMMERCIAL AND INSTITUTIONAL BUILDING CONSTRUCTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B30 **FREMONT PAVING INC** **RCRA NonGen / NLR** **1024802361**
WNW **38370 CEDAR BLVD** **CAL000240550**
< 1/8 **NEWARK, CA 94560**
0.093 mi.
492 ft. **Site 6 of 19 in cluster B**

Relative: **Higher**
Actual: **33 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20020226
Handler Name:	FREMONT PAVING INC	
Handler Address:		38370 CEDAR BLVD
Handler City,State,Zip:		NEWARK, CA 94560-0000
EPA ID:		CAL000240550
Contact Name:		KYLE KEIPER
Contact Address:		38370 CEDAR BLVD
Contact City,State,Zip:		NEWARK, CA 94560
Contact Telephone:		510-797-3553
Contact Fax:		510-793-0321
Contact Email:		KYLE@FREMONTPAVING.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		38370 CEDAR BLVD
Mailing City,State,Zip:		NEWARK, CA 94560-0000
Owner Name:		FREMONT PAVING INC
Owner Type:		Other
Operator Name:		KYLE KEIPER
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No

FREMONT PAVING INC (Continued) **1024802361**

Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KYLE KEIPER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38370 CEDAR BLVD

FREMONT PAVING INC (Continued) **1024802361**

Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-797-3553
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	FREMONT PAVING INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38370 CEDAR BLVD
Owner/Operator City,State,Zip:	NEWARK, CA 94560-4846
Owner/Operator Telephone:	510-797-3553
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20020226
Handler Name: FREMONT PAVING INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	23411
NAICS Description:	HIGHWAY AND STREET CONSTRUCTION

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

B31 **NEWARK COMMERCIAL TRUCK REPAIR** **RCRA NonGen / NLR** **1024866324**
WNW **38592 CEDAR BLVD UNIT D** **CAL000434908**
< 1/8 **NEWARK, CA 94560**
0.093 mi.
492 ft. **Site 7 of 19 in cluster B**

Relative: **Higher**
Actual: **33 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20180411
Handler Name:	NEWARK COMMERCIAL TRUCK REPAIR
Handler Address:	38592 CEDAR BLVD UNIT D
Handler City,State,Zip:	NEWARK, CA 94560
EPA ID:	CAL000434908
Contact Name:	SOHAIL AHMED

NEWARK COMMERCIAL TRUCK REPAIR (Continued) **1024866324**

Contact Address:	4140 IRVINGTON AVE APT 89
Contact City,State,Zip:	FREMONT, CA 94538
Contact Telephone:	408-599-6210
Contact Fax:	Not reported
Contact Email:	SOHAILAHMED555@GMAIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	38592 CEDAR BLVD UNIT D
Mailing City,State,Zip:	NEWARK, CA 94560
Owner Name:	NEWARK COMMERCIAL TRUCK REPAIR
Owner Type:	Other
Operator Name:	SOHAIL AHMED
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking

NEWARK COMMERCIAL TRUCK REPAIR (Continued) **1024866324**

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180907
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NEWARK COMMERCIAL TRUCK REPAIR
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38592 CEDAR BLVD UNIT D
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	408-599-6210
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SOHAIL AHMED
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4140 IRVINGTON AVE APT 89
Owner/Operator City,State,Zip:	FREMONT, CA 94538
Owner/Operator Telephone:	408-599-6210
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20180411
Handler Name:	NEWARK COMMERCIAL TRUCK REPAIR
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

NEWARK COMMERCIAL TRUCK REPAIR (Continued) **1024866324**

Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B32 **PHOENIX AUTO** **CERS HAZ WASTE** **S113029110**
WNW **38472 CEDAR BLVD** **HAZNET** **N/A**
< 1/8 **NEWARK, CA 94560** **HWTS**
0.093 mi.
492 ft. **Site 8 of 19 in cluster B**

Relative:
Higher

Actual:
33 ft.

CERS HAZ WASTE:
Name: ZIP IN OUT AUTO SERVICE
Address: 38472 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Site ID: 563143
CERS ID: 10002874
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 563143
Site Name: ZIP IN OUT AUTO SERVICE
Violation Date: 01-22-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 01/22/2020. The business failed to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page to California Environmental Reporting System (CERS). Complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page in the California Environmental Reporting System (CERS)at http://cers.calepa.ca.gov/ within 30 days. Facility corrected onsite by submitting a business plan in CERS during inspection.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 563143
Site Name: ZIP IN OUT AUTO SERVICE
Violation Date: 01-22-2020
Citation: 22 CCR 23 66273.34 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.34
Violation Description: Failure to label or mark each individual or container or the designated area of universal waste as required. 1) Waste batteries shall be marked with "Universal Waste-Battery(ies) . 2) Mercury

PHOENIX AUTO (Continued) **S113029110**

containing equipment shall be marked with "Universal Waste -Mercury-Containing Equipment . 3) Lamps shall be marked with Universal Waste-Lamp(s) . 4)Each electronic devices or the container or the designated area shall be marked with Universal Waste-Electronic Device(s) . 5) Each CRTs or the container or the designated area shall be marked with "Universal Waste-CRT(s) . 6) CRT glass or the designated area shall be marked with Universal Waste-CRT glass .

Violation Notes: Owner/Operator failed to properly store and label universal waste. Observed waste fluorescent lamps stored on pavement outdoors with no container or label. Store waste fluorescent lamps in closed container to prevent breakage and release of mercury with properly labeling "Universal Waste-Lamps" with accumulation start date. Properly label universal waste lamps and submit statement of compliance and/or a photo of the waste labeled and stored properly.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 563143
Site Name: ZIP IN OUT AUTO SERVICE
Violation Date: 01-22-2020
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes: Used oil was observed spilled on ground in front of used oil tank located in hazardous waste storage area in auto shop. Submit photos/documentation to ACDEH demonstrating the spill has been properly removed and managed.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 563143
Site Name: ZIP IN OUT AUTO SERVICE
Violation Date: 01-22-2020
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 01/22/2020. The business failed to establish and implement a business plan when handling hazardous materials at or above the reportable threshold quantities. Facility also failed to properly label and close hazardous material containers and provide training in the Hazardous Material Business Plan (HMBP) for all employees. Establish and implement a business plan for the facility. Facility corrected onsite by submitting a business plan in CERS during inspection.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 563143

PHOENIX AUTO (Continued) **S113029110**

Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 01/22/2020. The business failed to establish and electronically submit adequate emergency response procedures for a release or threatened release of a hazardous material to the California Environmental Reporting System (CERS). Establish and electronically submit adequate emergency response procedures for a release or threatened release of a hazardous material CERS at http://cers.calepa.ca.gov/ within 30 days. Facility corrected onsite by submitting a business plan in CERS during inspection.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	40 CFR 1 265.201(c)(3) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.201(c)(3)
Violation Description:	Failure to inspect hazardous waste tanks at least once each operating day for the following, when present: (1) Discharge control equipment (e.g., waste feed cutoff systems, by-pass systems, and drainage systems) to ensure that it is in good working order; (2) Data gathered from monitoring equipment (e.g., pressure and temperature gauges) to ensure that the tank is being operated according to its design; (3) The level of waste in the tank.
Violation Notes:	Daily hazardous waste tank inspections for the used oil tank have not been conducted. Conduct daily inspections of the hazardous waste tank according to the requirements identified above and submit a copy of the documentation to ACDEH.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	03-28-2019
Citation:	Un-Specified
Violation Description:	Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes:	Returned to compliance on 03/09/2020. The facility is operating without a permit from ACDEH since 7/31/2017. Obtain a permit to operate from ACDEH by submitting the full amount of fees due. Post the permit at your facility and submit a photograph of the posted permit to ACDEH.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020

PHOENIX AUTO (Continued) **S113029110**

Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 06/17/2021. The business failed to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material including familiarity with the emergency response plan or failure to document and maintain training records for a minimum of three years. Establish and electronically submit an employee training program containing provisions to ensure initial and annual training for all employees in safety procedures in the event of a release or threatened release of a hazardous material and document and maintain training records for a minimum of three years. Submit documentation to ACDEH demonstrating that employees have received annual refresher training on safe handling of hazardous materials and the Emergency Response Plan.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 01/22/2020. The business failed to establish and electronically submit an adequate employee training plan, which is reasonable and appropriate for the size of the business and the nature of the hazardous material handled to the California Environmental Reporting System (CERS). Establish and electronically submit an adequate employee training plan, which is reasonable and appropriate for the size of the business and the nature of the hazardous material handled in the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/ within 30 days. Facility corrected onsite by submitting a business plan in CERS during inspection.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	04-04-2014
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 06/05/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	563143

PHOENIX AUTO (Continued) **S113029110**

Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	Un-Specified
Violation Description:	Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes:	Returned to compliance on 03/09/2020. The facility is operating without a permit from ACDEH since October 2019. Obtain a permit to operate from ACDEH by submitting the full amount of fees due. Post the permit at your facility and submit a photograph of the posted permit to ACDEH within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	04-04-2014
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 06/05/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description:	Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies.
Violation Notes:	Returned to compliance on 06/17/2021. Employees are not thoroughly familiar with proper waste handling and emergency procedures as demonstrated by the number and/or type of hazardous waste violations observed at the time of inspection (unlabeled and open hazardous waste containers, spills not properly cleaned up, and improper disposal and storage of universal waste). Submit documentation to ACDEH demonstrating that employees have been properly trained.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 06/17/2021. 200 gallon tank of used oil located in auto shop was observed without a hazardous waste label. Submit a photo to ACDEH demonstrating that the container listed above

PHOENIX AUTO (Continued) **S113029110**

has been properly labeled.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 563143
Site Name: ZIP IN OUT AUTO SERVICE
Violation Date: 01-22-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 01/22/2020. The business failed to complete and electronically submit a site map with all required content including: north orientation, loading area, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shut offs, evacuation staging area, hazardous materials/waste storage areas and emergency response equipment to the California Environmental Reporting System (CERS). Complete and electronically submit a site map with all required content in California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/ within 30 days. Facility corrected onsite by submitting a business plan in CERS during inspection.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 563143
Site Name: ZIP IN OUT AUTO SERVICE
Violation Date: 01-22-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 01/22/2020. The business failed to complete and electronically submit chemical inventory information for all reportable hazardous materials on site at or above reportable quantities for the following: a. observed three 55 drums of 5W-30 located in auto shop b. observed 55 gallon tank of SAE 20W-50 located in auto shop c. observed 200 gallon tank of used oil located in auto shop d. observed 55 gallons of ethylene glycol located in auto shop Complete and submit a current hazardous material inventory electronically in the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/ within 30 days. Facility corrected onsite by submitting a business plan in CERS during inspection.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 563143
Site Name: ZIP IN OUT AUTO SERVICE
Violation Date: 04-04-2014
Citation: 40 CFR 1 265.33 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.33
Violation Description: Failure of the facility to test and maintain all communications or alarm systems, fire protection equipment, spill control equipment, and

PHOENIX AUTO (Continued) **S113029110**

	decontamination equipment.
Violation Notes:	Returned to compliance on 06/05/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	04-04-2014
Citation:	19 CCR 4 2729.2(a)(1) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(1)
Violation Description:	Owner/Operator failed to complete and/or submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 06/05/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	22 CCR 23 66273.31(a) - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.31(a)
Violation Description:	Failure of the universal waste handler to prevent improper disposal of universal waste, or to transfer universal waste to the appropriate destination facility.
Violation Notes:	The Universal Waste Handler improperly disposed of, or failed to transfer universal waste to an appropriate destination facility. Observed waste fluorescent lamps stored improperly on pavement outdoors in front of auto shop. Facility owner states that he was unaware that fluorescent lamps were universal waste. Ensure that all universal wastes are transferred to an appropriate destination facility and properly disposed. Submit documentation to the ACDEH indicating that all universal waste has been transferred to an appropriate destination facility.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	04-04-2014
Citation:	HSC 6.95 25504(b) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(b)
Violation Description:	Failure to include adequate emergency response procedures in the business plan for a release or threatened release.
Violation Notes:	Returned to compliance on 06/05/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	Un-Specified
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General Local Ordinance

PHOENIX AUTO (Continued) **S113029110**

Violation Notes:	Returned to compliance on 03/09/2020. The facility is operating without a permit from ACDEH since October 2019. Obtain a permit to operate from ACDEH by submitting the full amount of fees due. Post the permit at your facility and submit a photograph of the posted permit to ACDEH within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	04-04-2014
Citation:	HSC 6.95 25503.5(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25503.5(a)
Violation Description:	Owner/Operator failed to establish and implement a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes:	Returned to compliance on 06/05/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	04-04-2014
Citation:	19 CCR 4 2729.2(a)(3) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(3)
Violation Description:	Failure to complete and/or submit an annotated site map if required by CUPA.
Violation Notes:	Returned to compliance on 06/05/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	03-28-2019
Citation:	Un-Specified
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General Local Ordinance
Violation Notes:	Returned to compliance on 03/09/2020. The facility is operating without a permit from ACDEH since 7/31/2017. Obtain a permit to operate from ACDEH by submitting the full amount of fees due. Post the permit at your facility and submit a photograph of the posted permit to ACDEH.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	11-07-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.

PHOENIX AUTO (Continued) **S113029110**

Violation Notes:	Returned to compliance on 11/17/2017.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	40 CFR 1 265.35 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.35
Violation Description:	Failure to maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency, unless aisle space is not needed for any of these purposes.
Violation Notes:	The used oil tank located in the hazardous waste storage area in auto shop did not have adequate aisle space allowing for unobstructed movement. Submit photos to ACDEH demonstrating that adequate aisle space has been provided for the used oil tank.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)
Violation Description:	Failure to post the following information next to the telephone: (A) The name and telephone number of the emergency coordinator; (B) Location of fire extinguishers and spill control material, and, if present, fire alarm; and (C) The telephone number of the fire department, unless the facility has a direct alarm.
Violation Notes:	Returned to compliance on 06/17/2021. Emergency information is not posted next to the telephone. Complete and post all required emergency information next to the telephone.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	HSC 6.95 25505(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(c)
Violation Description:	Failure to have a business plan readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training.
Violation Notes:	The business failed to have the hazardous material business plan readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training. Provide a readily available business plan to personnel of the business or the unified program facility with responsibilities for emergency response or training. Facility corrected onsite by submitting a business plan in CERS during inspection and saving an electronic copy at the facility.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP

PHOENIX AUTO (Continued) **S113029110**

Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to label stationary hazardous waste tanks as "hazardous waste" and mark with an accumulation start date.
Violation Notes:	Returned to compliance on 06/17/2021. The used oil tank was observed without a hazardous waste label. Submit a photo to ACDEH demonstrating that the used oil tank has been properly labeled.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	12-17-2013
Citation:	HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description:	Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes:	Returned to compliance on 06/02/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/22/2020. The business failed to complete and electronically submit a business plan when handling hazardous materials at or above the reportable threshold quantities. Complete and electronically submit a business plan electronically in the California Environmental Reporting System (CERS) website at http://cers.calepa.ca.gov/ within 30 days and implement immediately. Facility corrected onsite by submitting a business plan in CERS during inspection.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	HSC 6.95 25505.1 - California Health and Safety Code, Chapter 6.95, Section(s) 25505.1
Violation Description:	Failure to notify property owner in writing that the business is subject to the business plan program and has complied with its provisions.

PHOENIX AUTO (Continued) **S113029110**

Violation Notes:	The business failed to notify property owner in writing that the business is subject to the business plan program and has complied with its provisions. Notify the property owner in writing that the business is subject to the business plan program and has complied with its provisions. Submit documentation of correction to the ACDEH within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	04-04-2014
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 06/05/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	04-04-2014
Citation:	HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description:	Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes:	Returned to compliance on 06/05/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	22 CCR 23 66273.36 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.36
Violation Description:	Failure of universal waste handler to provide initial and/or annual refresher training for employees who manage or handle universal waste and to maintain a written record for three years of personnel who took the initial or annual training.
Violation Notes:	Owner/Operator failed to provide initial and/or annual refresher training for employees who manage or handle universal waste and to maintain a written record for three years of personnel who took the initial or annual training. Provide employees with initial or refresher universal waste training. Submit a evidence of training to ACDEH.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE

PHOENIX AUTO (Continued) **S113029110**

Violation Date:	01-22-2020
Citation:	40 CFR 1 265.201(c)(5) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.201(c)(5)
Violation Description:	Failure to inspect hazardous waste tanks for the following, when present: 4) The construction materials of the tank at least weekly to detect corrosion or leaking of fixtures or seams. 5) The construction materials of, and the area immediately surrounding, discharge confinement structures (e.g., dikes) at least weekly to detect erosion or obvious signs of leakage (e.g., wet spots or dead vegetation).
Violation Notes:	Weekly hazardous waste tank inspections for the used oil tank have not been conducted. Conduct weekly inspections of the hazardous waste tank according to the requirements identified above and submit a copy of the documentation to ACDEH.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 06/17/2021. 55 gallon drum of used oil and fuel filters located outdoors was observed without a lid and label with accumulation start date. Submit photos to ACDEH demonstrating that the used oil and fuel filters are being properly managed or submit a bill of lading to this department demonstrating proper disposal.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	04-04-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 06/05/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	12-11-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 12/28/2018.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

PHOENIX AUTO (Continued) **S113029110**

Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	40 CFR 1 265.174 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.174
Violation Description:	Failure to inspect hazardous waste storage areas at least weekly and look for leaking and deteriorating containers.
Violation Notes:	Employees are not conducting thorough weekly inspections as demonstrated by the number and/or type of hazardous waste violations observed at the time of inspection (unlabeled and open hazardous waste containers, spills not properly cleaned up, and improper disposal and storage of universal waste). Submit a copy of the inspection log to the ACDEH demonstrating that the hazardous waste storage area is being inspected weekly.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	04-04-2014
Citation:	40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description:	Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water which could threaten human health or the environment..
Violation Notes:	Returned to compliance on 06/05/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	01-22-2020
Citation:	22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description:	Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes:	Returned to compliance on 01/28/2020. The generator has not obtained an active EPA ID number to manage hazardous waste for this location. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an active EPA ID number. Submit documentation demonstrating that you have obtained an EPA ID number to ACDEH within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Violation Date:	07-24-2015
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when

PHOENIX AUTO (Continued) **S113029110**

storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 09/28/2016.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-22-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine Hazardous Waste Generator (HWG) inspection of Zip In Out Auto Services located at 38472 Cedar Blvd, Newark, CA 94560. Met with facility owner, Abdullah Uzair, who granted consent to perform inspection. Alameda County Department of Environmental Health (ACDEH) to provide inspection report by email to: castrovalley189@habitburger.com. Facility relocated from 38592 Cedar Blvd Newark, CA 94560 to this location at 38472 Cedar Blvd in Newark, CA 94560 in October 2019. Hazardous waste streams includes used oil and used oil filters. Facility is a small quantity generator and has two waste handlers.
Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-28-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine triennial hazardous materials business plan inspection. Met with Dave Serradell, owner of Bay Area Body Shop. Business is in the process of liquidating all machinery and closing operations within the next two weeks. Hazardous materials will be removed or sold (e.g. new, unused paints will be sold, gas cylinders returned to vendor). Final closure inspection will shall be conducted after all hazardous materials are removed from facility. CERS account will need to be closed both by ACDEH CUPA and the Business. Last accepted CERS submittal was dated 12/28/2018.
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-17-2013
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: ENTER HMBP NOV LETTER
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-28-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine triennial SMALL QUANTITY hazardous waste generator inspection.

PHOENIX AUTO (Continued) **S113029110**

Met with Dave Serradell, owner of Bay Area Body Shop. Business is in the process of liquidating all machinery and closing operations within the next two weeks. Hazardous waste will be removed under manifest by Safety-Kleen. Final closure inspection will shall be conducted after all hazardous wastes are removed from facility. Manifests shall be retained for inspection. NOTE: FACILITY IS A SMALL QUANTITY GENERATOR. HAZARDOUS WSTE STREAMS: WASTE PAINT, USED OIL.

Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-04-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HWG INSPECTION. MINOR VIOLATIONS FOUND
Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-07-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: GENERATE NOV/ADDING VIOLATION
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-11-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: GENERATE NOV LTR/ADDING VIOLATION IN EC
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-04-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HMBP INSPECTION. MINOR VIOLATIONS FOUND
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-22-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine Hazardous Materials Business Plan (HMBP) inspection of Zip In Out Auto Services located at 38472 Cedar Blvd, Newark, CA 94560. Met with facility owner, Abdullah Uzair, who granted consent to perform inspection. Alameda County Department of Environmental Health (ACDEH) to provide inspection report by email to: castrovalley189@habitburger.com. Facility relocated from 38592 Cedar

PHOENIX AUTO (Continued) **S113029110**

Blvd Newark, CA 94560 to this location at 38472 Cedar Blvd in Newark, CA 94560 in October 2019. Hazardous material inventory for the facility consists of new and used oil and antifreeze. Ensure a hazardous material business plan is submitted on an annual basis.

Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-24-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 563143
Site Name: ZIP IN OUT AUTO SERVICE
Site Address: 38472 CEDAR BLVD
Site City: NEWARK
Site Zip: 94560
Enf Action Date: 06-17-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 563143
Site Name: ZIP IN OUT AUTO SERVICE
Site Address: 38472 CEDAR BLVD
Site City: NEWARK
Site Zip: 94560
Enf Action Date: 11-07-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 563143
Site Name: ZIP IN OUT AUTO SERVICE
Site Address: 38472 CEDAR BLVD
Site City: NEWARK
Site Zip: 94560
Enf Action Date: 07-27-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: UNSPEC
Enf Action Source: CERS,

PHOENIX AUTO (Continued) **S113029110**

Site ID:	563143
Site Name:	ZIP IN OUT AUTO SERVICE
Site Address:	38472 CEDAR BLVD
Site City:	NEWARK
Site Zip:	94560
Enf Action Date:	10-04-2016
Enf Action Type:	AEO - Unified Program
Enf Action Description:	Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes:	Fines/Penalties Assessed: $948.00.
Enf Action Division:	Alameda County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS,

Coordinates:

Site ID:	563143
Facility Name:	ZIP IN OUT AUTO SERVICE
Env Int Type Code:	HMBP
Program ID:	10002874
Coord Name:	Not reported
Ref Point Type Desc:	Unknown,
Latitude:	37.532360
Longitude:	-122.009702

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	abdul khaliq
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	ZIPINOUT AUTO SERVICE
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	Alameda County Env Health
Entity Title:	Not reported
Affiliation Address:	1131 Harbor Parkway, Suite 240
Affiliation City:	Alameda
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94502-6577
Affiliation Phone:	(510) 567-6700,
Affiliation Type Desc:	Legal Owner
Entity Name:	ABDUL KHALIQ

PHOENIX AUTO (Continued) **S113029110**

Entity Title:	Not reported
Affiliation Address:	38472 Cedar Blvd
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94560
Affiliation Phone:	(510) 792-6699,
Affiliation Type Desc:	Property Owner
Entity Name:	Frank Freitas
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	United States
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 366-7980,
Affiliation Type Desc:	Environmental Contact
Entity Name:	ABDUL KHALIQ
Entity Title:	Not reported
Affiliation Address:	38472 Cedar Blvd
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	38472 Cedar Blvd
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	ABDUL KHALIQ
Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	ABDUL KHALIQ
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 760-3875,

PHOENIX AUTO (Continued) **S113029110**

HAZNET:

Name:	PHOENIX AUTO
Address:	38472 CEDAR BLVD
Address 2:	Not reported
City,State,Zip:	NEWARK, CA 945600000
Contact:	UNDELIVERABLE 93 FEE FORM
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	38472 CEDAR BLVD
Year:	1993
Gepaid:	CAL000021132
TSD EPA ID:	CAT000613893
CA Waste Code:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	H01 - Transfer Station
Tons:	0.123
Year:	1992
Gepaid:	CAL000021132
TSD EPA ID:	CAT000613893
CA Waste Code:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	H01 - Transfer Station
Tons:	0.3075
Year:	1991
Gepaid:	CAL000021132
TSD EPA ID:	CAD008302903
CA Waste Code:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	R01 - Recycler
Tons:	0.4587
Year:	1991
Gepaid:	CAL000021132
TSD EPA ID:	CAD008302903
CA Waste Code:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	01 -
Tons:	0
Year:	1990
Gepaid:	CAL000021132
TSD EPA ID:	CAD008302903
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	R01 - Recycler
Tons:	2.0641
Year:	1989
Gepaid:	CAL000021132
TSD EPA ID:	CAD009452265
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	01 -
Tons:	0.9591
Year:	1989
Gepaid:	CAL000021132
TSD EPA ID:	CAD009452657
CA Waste Code:	-
Disposal Method:	01 -

PHOENIX AUTO (Continued) **S113029110**

Tons: 0.688

Year: 1989
Gepaid: CAL000021132
TSD EPA ID: CAD009452657
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: R01 - Recycler
Tons: 1.6263

Additional Info:
Year: 1993
Gen EPA ID: CAL000021132

Shipment Date: 19930203
Creation Date: 9/6/1995 0:00:00
Receipt Date: 19930209
Manifest ID: 92388212
Trans EPA ID: ILD051060408
Trans Name: Not reported
Trans 2 EPA ID: ILD051060408
Trans 2 Name: Not reported
TSDF EPA ID: CAT000613893
Trans Name: Not reported
TSDF Alt EPA ID: CAT000613893
TSDF Alt Name: Not reported
Waste Code Description: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code: F005
Meth Code: H01 - Transfer Station
Quantity Tons: 0.1095
Waste Quantity: 219
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19930105
Creation Date: 9/5/1995 0:00:00
Receipt Date: 19930112
Manifest ID: 92378698
Trans EPA ID: ILD051060408
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT000613893
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code: Not reported
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0135
Waste Quantity: 27
Quantity Unit: P
Additional Code 1: Not reported

PHOENIX AUTO (Continued) **S113029110**

Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

HWTS:
Name: PHOENIX AUTO
Address: 38472 CEDAR BLVD
Address 2: Not reported
City,State,Zip: NEWARK, CA 945600000
EPA ID: CAL000021132
Inactive Date: 06/30/1993
Create Date: 11/14/1989
Last Act Date: 07/10/2001
Mailing Name: Not reported
Mailing Address: 38472 CEDAR BLVD
Mailing Address 2: Not reported
Mailing City,State,Zip: NEWARK, CA 945600000
Owner Name: FRITON WARREN
Owner Address: --
Owner Address 2: Not reported
Owner City,State,Zip: --, 99 --
Contact Name: UNDELIVERABLE 93 FEE FORM
Contact Address: --
Contact Address 2: Not reported
City,State,Zip: --, 99 --

B33 **APPLIED AIR FILTERS** **CERS HAZ WASTE** **S121781469**
WNW **38424 CEDAR BLVD** **CERS** **N/A**
< 1/8 **NEWARK, CA 94560**
0.093 mi.
492 ft. **Site 9 of 19 in cluster B**

Relative: Higher
Actual: 33 ft.

CERS HAZ WASTE:
Name: APPLIED AIR FILTERS
Address: 38424 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Site ID: 423316
CERS ID: 10738222
CERS Description: Hazardous Waste Generator

CERS:
Name: APPLIED AIR FILTERS
Address: 38424 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Site ID: 423316
CERS ID: 10738222
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 423316
Site Name: APPLIED AIR FILTERS
Violation Date: 08-05-2021
Citation: HSC 6.5 25189.5(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25189.5(a)
Violation Description: Failure to dispose of hazardous waste at a facility which has a permit from DTSC or disposing of hazardous waste at any point which is not

APPLIED AIR FILTERS (Continued) **S121781469**

	authorized.
Violation Notes:	Waste disposal records were not available to the inspectors during the inspection. The business owner stated that employees sometimes take used oil and antifreeze from RV maintenance home with them, and that facility encourages customers to take home used oil in one-gallon containers for them to dispose of themselves. Discontinue these practices immediately and contact a registered hazardous waste transporter to dispose of the used oil and antifreeze. The registered hazardous waste transporter must provide a consolidated manifest for both the used oil and the used antifreeze (that meets all consolidated manifest requirements) and copies of the consolidated manifests must be kept on site for three (3) years.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	Un-Specified
Violation Description:	Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes:	This facility has not obtained a permit for a "Business Handling Hazardous Materials" from the Alameda County Department of Environmental Health (ACDEH). All businesses that store or generate hazardous materials at threshold levels are required to obtain a permit from ACDEH and comply with regular inspection requirements. An invoice will be forthcoming from our office for the annual permit fees. Pay all permit fees no later than 9/4/2021.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Hazardous waste drums containing used oil and used anti-freeze were left open in the hazardous waste storage area. Keep the containers closed except when actively adding or removing waste and submit photographs to Alameda County CUPA demonstrating that the containers listed above have been properly closed by 9/4/2021.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter

APPLIED AIR FILTERS (Continued) **S121781469**

	6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	This facility has not electronically submitted a business plan to the California Environmental Reporting System (CERS). Prepare and electronically submit a Hazardous Materials Business Plan to CERS (https://cers.calepa.ca.gov/) no later than 9/4/2021. The business plan must include the most up-to-date facility information, hazardous materials inventory, site map, emergency response/contingency plans, and employee training plans (see corrective actions for violation #1). The business plan must be submitted to CERS triennially, and certified in CERS annually.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	40 CFR 1 265.174 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.174
Violation Description:	Failure to inspect hazardous waste storage areas at least weekly and look for leaking and deteriorating containers.
Violation Notes:	Returned to compliance on 04/16/2019. Per manager, facility does not conduct weekly inspections of hazardous waste storage area. Submit a copy of the inspection log to ACDEH demonstrating that the hazardous waste storage area is being inspected weekly.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	The business failed to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material including familiarity with the emergency response plan or failure to document and maintain training records for a minimum of three years. Establish and electronically submit an employee training program containing provisions to ensure initial and annual training for all employees in safety procedures in the event of a release or threatened release of a hazardous material and document and maintain training records for a minimum of three years. Provide training to all employees and submit a copy of the training to ACDEH within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	423316

APPLIED AIR FILTERS (Continued) **S121781469**

Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	The business failed to submit a complete and accurate hazardous materials inventory to CERS, including, but not limited to: 1. Two 8-gallon propane tanks used for the forklift, located in the warehouse near the entrance to the office. 2. Three cylinders of argon/carbon dioxide (approximately 292 cubic feet each) located in the warehouse near the entrance to the office. (These cylinders were marked as empty.) 3. Two cylinders of argon/carbon dioxide/helium (approximately 292 and 175 cubic feet, respectively) located in the warehouse near the entrance to the office. 4. One oxygen cylinder (approximately 75 cubic feet) located in the warehouse near the entrance to the office. 5. One acetylene cylinder (approximately 75 cubic feet) located in the warehouse near the entrance to the office. 6. One nitrogen cylinder (approximately 304 cubic feet) located near the RV maintenance bay. 7. One argon cylinder (approximately 292 cubic feet) located ... [TRUNCATED: Refer to full Inspection Report]
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	The business failed to complete and electronically submit a site map with all required content including: north orientation, loading area, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shut offs, evacuation staging area, hazardous materials/waste storage areas and emergency response equipment. Complete and electronically submit a site map with all required content in the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/ within 30 days
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to establish and/or electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material. *Verify agricultural handler exemption HSC 25507.1
Violation Notes:	The business failed to establish and electronically submit an adequate employee training plan, which is reasonable and appropriate for the size of the business and the nature of the hazardous material handled.

APPLIED AIR FILTERS (Continued) **S121781469**

	Prepare and electronically submit an adequate employee training program pertaining to safety procedures in the event of a release (or threatened release) of a hazardous material to CERS (https://cers.calepa.ca.gov/) no later than 9/4/2021. Training must include, at minimum: 1. Immediate notification contacts to the appropriate local emergency response personnel and to the unified program agency. 2. Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. 3. Evacuation plans and procedures, including immediate notice, for the business site. Training must be refreshed annually and training records must be kept on site for three (3) years.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)
Violation Description:	Failure to post the following information next to the telephone: (A) The name and telephone number of the emergency coordinator; (B) Location of fire extinguishers and spill control material, and, if present, fire alarm; and (C) The telephone number of the fire department, unless the facility has a direct alarm.
Violation Notes:	Returned to compliance on 04/16/2019. Emergency information is not posted next to the telephone. Complete and post all required emergency information next to the telephone. Submit proof of corrective action to ACDEH within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description:	Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes:	Returned to compliance on 04/16/2019. Facility failed to maintain and operate the facility to minimize the possibility of fire, explosion, or any unplanned release by storing open hazardous waste containers underneath a blanket. Close open containers of hazardous waste and discontinue storing hazardous waste containers under blankets. Submit photos/documentation to ACDEH demonstrating the facility is managed and operated to minimize the possibility of fire, explosion, or unplanned release.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	423316

APPLIED AIR FILTERS (Continued) **S121781469**

Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	HSC 6.95 25508(a)(3 - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3
Violation Description:	Failure to report program data electronically.
Violation Notes:	The business failed to complete and electronically submit an accurate Business Activities Page and/or Business Owner Operator Identification Page. Prepare and electronically submit a Business Activities Page and/or Business Owner Operator Identification Page to CERS (https://cers.calepa.ca.gov/) no later than 9/4/2021.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	OBSERVATION: The Hazardous Materials Business Plan (HMBP) has not been established and adequately implemented as demonstrated by: a. Facility did not establish a business plan when handling hazardous materials in the California Environmental Reporting System (CERS) within 30 days as required. b. Compressed gas cylinders not secured properly. Cylinders must be stored properly by securing to prevent falling due to contact, vibration, or seismic activity. c. Open containers with no labels. Containers shall be maintained close when not in use and be properly labeled. CORRECTIVE ACTIONS: a. Submit a business plan electronically in the California Environmental Reporting System (CERS) website at http://cers.calepa.ca.gov/ within 30 days and implement immediately. b. Properly secure compressed gas CO2 cylinder to prevent from falling during an earthquake. C. Properly close and label containers. Submit proof of corrective action with photos/w... [TRUNCATED: Refer to full Inspection Report]
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	22 CCR 12 66262.20 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.20
Violation Description:	Failure to prepare a Uniform Hazardous Waste Manifest and, if necessary, a Continuation Sheet, before the transport of a hazardous waste off-site for transfer, treatment, storage, or disposal.
Violation Notes:	Facility has been in operation for five years. Facility have no records of disposing hazardous waste. Per facility manager and staff, waste antifreeze and used oil are taken to Fremont HHW on Boyce Street 15 gallons at a time. Bad carbon is stored in 55 gallon container drums and are recycled per operator. Provide a copy of a prepared manifest for waste antifreeze, used oil, and bad carbon to ACDEH within 30 days.
Violation Division:	Alameda County Environmental Health

APPLIED AIR FILTERS (Continued) **S121781469**

Violation Program:	HW
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	40 CFR 1 265.35 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.35
Violation Description:	Failure to maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency, unless aisle space is not needed for any of these purposes.
Violation Notes:	Returned to compliance on 02/07/2019. The hazardous waste storage area located in the warehouse did not have adequate aisle space allowing for unobstructed movement. Submit photos to the CUPA demonstrating that adequate aisle space has been provided. Facility manager corrected on site by providing adequate ailse space.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	The business failed to establish and electronically submit an adequate employee training plan, which is reasonable and appropriate for the size of the business and the nature of the hazardous material handled. Establish and electronically submit an adequate employee training plan, which is reasonable and appropriate for the size of the business and the nature of the hazardous material handled electronically in the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/ within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	The business failed to establish and electronically submit adequate emergency response procedures for a release or threatened release of a hazardous material. Establish and electronically submit adequate emergency response procedures for a release or threatened release of a hazardous material electronically in the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/ within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP

APPLIED AIR FILTERS (Continued) **S121781469**

Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Container of used oil located in hazardous waste storage area in warehouuse was observed open. Submit photos to ACDEH demonstrating that the container listed above has been properly closed witin 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	The business failed to complete and electronically submit a site map with all the required content. Prepare and electronically submit a site map that includes all of the required content to CERS (https://cers.calepa.ca.gov/) no later than 9/4/2021. The site map must include: 1. a north orientation arrow 2. loading areas 3. internal roads 4. adjacent streets 5. storm drains 6. sewer drains 7. access and exit points 8. emergency shutoffs (power, gas, water) 9. evacuation staging areas 10. hazardous material handling and storage areas, 11. emergency response equipment
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	HSC 6.95 25505.1 - California Health and Safety Code, Chapter 6.95, Section(s) 25505.1
Violation Description:	Failure to notify property owner in writing that the business is subject to the business plan program and has complied with its provisions.
Violation Notes:	Returned to compliance on 04/16/2019. The business failed to notify property owner in writing that the business is subject to the business plan program and has complied with its provisions. Notify the property owner in writing that the business is subject to the business plan program and has complied with its provisions. Submit documentation of correction to ACDEH within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP

APPLIED AIR FILTERS (Continued) **S121781469**

Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description:	Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes:	The facility was not operated and/or maintained to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents, as evidenced by: 1. Open containers of hazardous waste stored in the hazardous waste storage area. 2. Unlabeled or improperly labeled containers storing hazardous waste and/or materials. 3. An open, empty 55-gallon drum used to store gasoline during RV maintenance stored within sparking range of a welding/grinding station. 4. Automotive waste fluids left unattended in spill trays throughout the RV maintenance area. 5. Fine metal shavings and particles/powders collecting on the floors and equipment around the bench grinder and drill. 6. Unlabeled/unidentified/unsecured compressed gas cylinders, propane tanks, and drums stored behind the facility. 1. Keep hazardous waste containers closed except when actively adding or removing waste. 2. Properly... [TRUNCATED: Refer to full Inspection Report]
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Used oil filters were observed on top of the portable tanks used to change automotive fluid instead of in a closed container with proper labeling, and waste disposal records of used oil filters were not available for the inspectors to review during the inspection. Store drained used oil filters in a closed, properly labeled used oil filter drum no later than 9/4/2021, and contact a registered hazardous waste transporter to dispose of them no later than one year after their accumulation start date. The registered hazardous waste transporter must provide a manifest or bill of lading for the transportation of used oil filters, and copies of the manifests or bills of lading must be kept on site for three (3) years.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95,

APPLIED AIR FILTERS (Continued) **S121781469**

	Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	This facility failed to submit a business plan to the California Environmental Reporting System (CERS) by the due date established by Alameda County CUPA (4/17/2019). Prepare and electronically submit a Hazardous Materials Business Plan to CERS (https://cers.calepa.ca.gov/) no later than 9/4/2021. The business plan must include the most up-to-date facility information, hazardous materials inventory, site map, emergency response/contingency plans, and employee training plans (see corrective actions for violation #1). The business plan must be submitted to CERS triennially, and certified in CERS annually.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	OBSERVATION: Facility owner has not submitted a complete and current hazardous material inventory electronically to the California Environmental Reporting System (CERS). Observed the following: a. Four cylinders of compressed gas of unknown capacity. Verify total amount of b. Two 8 gallon propane cylinders c. Two compressed gas cylinders of oxygen of unknown capacity. d. Two 55 gallons drums of soap e. One 275 gallon drum of Smog-Wash f. Two compressed gas cylinders of actelyene of unknown capacity. CORRECTIVE ACTION: Complete and submit a current hazardous material inventory electronically in the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/ within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	HSC 6.95 25505(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(c)
Violation Description:	Failure to have a business plan readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training.
Violation Notes:	The facility has not established a business plan yet, and because of that, the facility's emergency response plans and procedures, hazardous materials inventory, and site map were not readily available to personnel of the business or the unified program agency during the inspection. Prepare and electronically submit a Hazardous Materials Business Plan to CERS (https://cers.calepa.ca.gov/) no later than 9/4/2021 (see corrective actions for violation #1). Once completed, maintain copies of the emergency response plans and procedures,

APPLIED AIR FILTERS (Continued) **S121781469**

	hazardous materials inventory, and site map on site so that they are readily available to facility employees and the unified program agency (Alameda County CUPA).
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11
Violation Description:	Failure to determine if wastes generated are hazardous waste by using generator knowledge or applying testing method.
Violation Notes:	Fine metal particles/powders were observed on the floor beneath the bench grinder located in the warehouse near the RV maintenance bay. The facility has not made a waste determination for these metal particles/powders, and the business owner stated they are normally swept up and thrown away in the municipal trash can. Conduct a hazardous waste determination for the metal particles/powder produced by the bench grinder lathe no later than 9/4/2021. To conduct a hazardous waste determination: 1. Contact at a state certified laboratory and tell them you need a hazardous waste determination for your metal particles/powder. 2. Ask if they can perform a sieve analysis for 100-micrometer (micron) fines and a TTLC/STLC (WET) analysis for CAM 17 metals. 3. Send them a sample of the metal fines in accordance with their sampling procedures. 4. Submit the test results to Alameda County CUPA.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description:	Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies.
Violation Notes:	Employees are not familiar with proper waste handling and emergency procedures, as evidenced by the number and/or type of hazardous waste violations observed at the time of inspection (unlabeled drums, open containers, improper disposal of hazardous waste, etc). Provide hazardous waste training to employees and submit the corresponding training records to Alameda County CUPA no later than 9/4/2021.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description:	Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200

APPLIED AIR FILTERS (Continued) **S121781469**

	miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes:	Owner/Operator is a small quantity generator and failed to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles), or has failed to comply with the conditions of CCR 66262.34(d) and has stored hazardous waste over 90 days. Observed no accumulation start dates on open containers of oil. Hazardous waste accumulation time could not be determined. Dispose of hazardous waste that has been stored over the applicable time limit and provide documentation to ACDEH that the violation has been corrected within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description:	Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies.
Violation Notes:	Employees are not thoroughly familiar with proper waste handling and emergency procedures as demonstrated by the number and/or type of hazardous waste violations observed at the time of inspection (unlabeled drums/open containers/open containers of chemicals stored underneath blankets). Submit documentation to ACDEH demonstrating that employees have been properly trained within 30 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Portable tanks used to change automotive fluid throughout the day were not labeled as hazardous waste and the hazardous waste containers for used oil and used antifreeze in the hazardous waste storage area did not have accumulation start dates on them (they were last labeled as empty in 2019). Properly label all containers and portable tanks used to store or transfer hazardous waste with the following information no later than 9/4/2021: 1. The words "Hazardous Waste" 2. The accumulation start date 3. The composition and physical state of the wastes 4. A statement or statements which call attention to the

APPLIED AIR FILTERS (Continued) **S121781469**

particular hazardous properties of the waste (e.g., flammable, reactive, etc.) 5. The name and address of the person producing the waste

Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 423316
Site Name: APPLIED AIR FILTERS
Violation Date: 08-05-2021
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes: Two (2) open 20-30-gallon hazardous waste containers half-filled with used oil and anti-freeze were observed in the hazardous waste storage area, and were last labeled as empty in 2019. No accumulation start dates were observed on these containers and the business owner did not know how long the hazardous waste had been there for either. Contact a registered hazardous waste transporter to dispose of the used oil and anti-freeze no later than 9/4/2021 and submit the corresponding manifests to Alameda County CUPA.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 423316
Site Name: APPLIED AIR FILTERS
Violation Date: 02-07-2019
Citation: HSC 6.95 25505(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(c)
Violation Description: Failure to have a business plan readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training.
Violation Notes: The business failed to have the hazardous material business plan readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training. Provide a readily available business plan to personnel of the business or the unified program facility with responsibilities for emergency response or training. Document that appropriate personnel have the business plan readily available.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 423316
Site Name: APPLIED AIR FILTERS
Violation Date: 08-05-2021
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)

APPLIED AIR FILTERS (Continued) **S121781469**

Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	The business failed to provide/document initial and annual training to all employees pertaining to safety procedures in the event of a release (or threatened release) of a hazardous material. Prepare and electronically submit an adequate employee training program pertaining to safety procedures in the event of a release (or threatened release) of a hazardous material to CERS (https://cers.calepa.ca.gov/) no later than 9/4/2021. Training must include, at minimum: 1. Immediate notification contacts to the appropriate local emergency response personnel and to the unified program agency. 2. Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. 3. Evacuation plans and procedures, including immediate notice, for the business site. Training must be refreshed annually and training records must be kept on site for three (3) years.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	This facility has not established a business plan pertaining to the handling or release of hazardous materials, even though the following hazardous materials were observed on site: 1. Two 8-gallon propane tanks used for the forklift, located in the warehouse near the entrance to the office. 2. Three cylinders of argon/carbon dioxide (approximately 292 cubic feet each) located in the warehouse near the entrance to the office. (These cylinders were marked as empty.) 3. Two cylinders of argon/carbon dioxide/helium (approximately 292 and 175 cubic feet, respectively) located in the warehouse near the entrance to the office. 4. One oxygen cylinder (approximately 75 cubic feet) located in the warehouse near the entrance to the office. 5. One acetylene cylinder (approximately 75 cubic feet) located in the warehouse near the entrance to the office. 6. One nitrogen cylinder (approximately 304 cubic feet) located near the RV maintenance bay. 7. O... [TRUNCATED: Refer to full Inspection Report]
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	40 CFR 1 265.174 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.174
Violation Description:	Failure to inspect hazardous waste storage areas at least weekly and look for leaking and deteriorating containers.
Violation Notes:	The facility does not conduct weekly inspections of hazardous waste

APPLIED AIR FILTERS (Continued) **S121781469**

storage area. Conduct weekly inspections for leaking containers and for deterioration of containers caused by corrosion or other factors, and submit a copy of the attached inspection log to Alameda County CUPA no later than 9/4/2021.

Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 423316
Site Name: APPLIED AIR FILTERS
Violation Date: 08-05-2021
Citation: HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Description: Failure of a generator of hazardous waste that meets the conditions to be transported on a consolidated manifest to comply with one or more of the required consolidated manifesting procedures and retain copies of receipts for three years.
Violation Notes: Consolidated manifests for the disposal of used oil and used antifreeze were not available for the inspector to review during the inspection. The business owner stated that employees sometimes take these materials home with them and that facility encourages customers to take home used oil in one-gallon containers for them to dispose of themselves. Discontinue these practices immediately and contact a registered hazardous waste transporter to dispose of the used oil and antifreeze. The registered hazardous waste transporter must provide a consolidated manifest for both the used oil and the used antifreeze (that meets all consolidated manifest requirements) and copies of the consolidated manifests must be kept on site for three (3) years.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 423316
Site Name: APPLIED AIR FILTERS
Violation Date: 02-07-2019
Citation: HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Description: Failure of a generator of hazardous waste that meets the conditions to be transported on a consolidated manifest to comply with one or more of the required consolidated manifesting procedures and retain copies of receipts for three years.
Violation Notes: Owner/Operator failed to comply with one or more consolidated manifesting requirements. Facility have no records of disposing hazardous waste. Per facility manager and staff, waste antifreeze and used oil are taken to Fremont HHW on Boyce Street 15 gallons at a time. Bad carbon is stored in 55 gallon container drums and are recycled per operator. Ensure that all wastes transported on a consolidated manifest meet all consolidated manifest requirements, and maintain copies of manifests for three years. If taken Fremont Household hazardous waste, waste must be taken as a business and a receipt will be generated. Provide a copy of hazardous waste disposal within 30 days.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 423316

APPLIED AIR FILTERS (Continued) **S121781469**

Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	HSC 6.5 25163(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25163(a)
Violation Description:	Failure to use a DTSC registered hazardous waste transporter to transport hazardous waste.
Violation Notes:	Waste disposal records were not available to the inspectors during the inspection. The business owner stated that employees sometimes take used oil and antifreeze from RV maintenance home with them, and that facility encourages customers to take home used oil in one-gallon containers for them to dispose of themselves. Discontinue these practices immediately and contact a registered hazardous waste transporter to dispose of the used oil and antifreeze. The registered hazardous waste transporter must provide a consolidated manifest for both the used oil and the used antifreeze (that meets all consolidated manifest requirements) and copies of the consolidated manifests must be kept on site for three (3) years.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	22 CCR 23 66273.34 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.34
Violation Description:	Failure to label or mark each individual or container or the designated area of universal waste as required. 1) Waste batteries shall be marked with "Universal Waste-Battery(ies) . 2) Mercury containing equipment shall be marked with "Universal Waste -Mercury-Containing Equipment . 3) Lamps shall be marked with Universal Waste-Lamp(s) . 4)Each electronic devices or the container or the designated area shall be marked with Universal Waste-Electronic Device(s) . 5) Each CRTs or the container or the designated area shall be marked with "Universal Waste-CRT(s) . 6) CRT glass or the designated area shall be marked with Universal Waste-CRT glass .
Violation Notes:	Fluorescent tubes were observed in an open box stored behind the facility. Store fluorescent tubes in closed containers that are structurally sound and adequate to prevent breakage, and clearly mark each container with the phrase Universal Waste - Mercury-Containing Equipment by 9/4/2021.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	OBSERVATION: Facility owner has not completed and electronically submitted a business plan when handling hazardous materials in CERS within 30 days as required. CORRECTIVE ACTION: Submit the business plan electronically in the California Environmental Reporting System

APPLIED AIR FILTERS (Continued) **S121781469**

(CERS) website at http://cers.calepa.ca.gov/ within 30 days.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 423316
Site Name: APPLIED AIR FILTERS
Violation Date: 08-05-2021
Citation: 40 CFR 1 265.35 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.35
Violation Description: Failure to maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency, unless aisle space is not needed for any of these purposes.
Violation Notes: The hazardous waste storage area located in the warehouse did not have adequate aisle space allowing for unobstructed movement. Provide and maintain enough aisle space to allow for the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency no later than 9/4/2021.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 423316
Site Name: APPLIED AIR FILTERS
Violation Date: 08-05-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: The business failed to establish and electronically submit adequate emergency response procedures for a release (or threatened release) of a hazardous material. Prepare and electronically submit an adequate emergency response plan and procedures for a release (or threatened release) of a hazardous material to CERS (https://cers.calepa.ca.gov/) no later than 9/4/2021.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 423316
Site Name: APPLIED AIR FILTERS
Violation Date: 02-07-2019
Citation: HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description: Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes: Observed used oil filters stored on top of used oil container instead of in a closed container with proper labeling. Submit photos to ACDEH demonstrating that the used oil and fuel filters are being properly managed or submit a bill of lading to this department demonstrating proper disposal within 30 days.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

APPLIED AIR FILTERS (Continued) **S121781469**

Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	08-05-2021
Citation:	22 CCR 23 66273.36 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.36
Violation Description:	Failure of universal waste handler to provide initial and/or annual refresher training for employees who manage or handle universal waste and to maintain a written record for three years of personnel who took the initial or annual training.
Violation Notes:	The facility failed to provide initial and annual refresher training for employees who manage or handle universal waste, and failed to maintain a written record for three years of personnel who took the initial or annual training. Provide initial (and annual refresher) training to all personnel who manage universal wastes no later than 9/4/2021. This training shall include, at a minimum: 1. The types and hazards associated with the universal waste that personnel may manage at the facility (e.g., hazards associated with fluorescent tubes and aerosol cans). 2. The proper disposition of universal wastes managed at the facility (e.g., the locations of universal waste containers, or the location of a centralized universal waste accumulation area). 3. The proper procedures for responding to releases of universal wastes (e.g., spilled CRT glass) including the position titles and the means of contacting those personnel at the facility who are d... [TRUNCATED: Refer to full Inspection Report]
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	The business failed to complete and electronically submit an accurate Business Activities Page and/or Business Owner Operator Identification Page. Facility failed to indicate in CERS that their facility stores, uses, or handles hazardous material over reporting thresholds. Complete an updated and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page in CERS within 30 days. Indicate
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	423316
Site Name:	APPLIED AIR FILTERS
Violation Date:	02-07-2019
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Used oil containers located in hazardous waste storage area in was

APPLIED AIR FILTERS (Continued) **S121781469**

observed without a hazardous waste label. Submit a photo to ACDEH demonstrating that the container listed above has been properly labeled witin 30 days.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 04-16-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Alameda County Department of Environmental Health onsite for follow up inspection. Consent provided by Jim Kanomata, Facility Manager. The facility still has open violations from the routine inspection that need to be corrected: 1. Provide training records for the other two employees that have not completed training in hazardous waste. One employee has been trained. 2. Provide disposal records for antifreeze and spent carbon. 3. Complete application for Alameda County Household Hazardous Waste. 4. Provide lids for open containers of waste anti-freeze and used oil. 5. Fill in "Generator name and address", "Accumulation Start Date", "Physical State", and "Hazard Properties" on hazardous waste labels for waste antifreeze and used oil. Facility operator states that metal filters are drained and then placed in metal recycling bin and picked up by metal recycler. Facility operator also states that hazardous waste inspections are conducted weekly.
Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 08-05-2021
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Alameda County CUPA inspectors Luke Voropaeff and Antoinette Stezenmeyer arrived on site for a follow up inspection to the 2/7/2019 routine inspection of this facility. Consent to inspect was provided by Nick Gutierrez and Jim Kanomata, the business owners. Violation classifications for all repeated and uncorrected violations have been elevated. Facility/Site Description: Applied Air Filters installs and supplies ventilation air filter systems to the public, cleans commercial restaurant filters, returns used carbon filters to the manufacturer’s to "recharge" the carbon, performs RV maintenance, and supplies RV parts to the public. There is a large warehouse that houses the filters, observed hazardous materials, and the RV maintenance bay; and there are numerous RVs and RV parts stored behind and along side the facility. Observed hazardous waste streams included used oil, used oil filters, used antifreeze, universal wastes, and ... [TRUNCATED: Refer to full Inspection Report]
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 08-05-2021
Violations Found: Yes
Eval Type: Other, not routine, done by local agency

APPLIED AIR FILTERS (Continued) **S121781469**

Eval Notes:	Alameda County CUPA inspectors Luke Voropaeff and Antoinette Stezenmeyer arrived on site for a follow up inspection to the 2/7/2019 routine inspection of this facility. Consent to inspect was provided by Nick Gutierrez and Jim Kanomata, the business owners. Violation classifications for all repeated and uncorrected violations have been elevated. Facility/Site Description: Applied Air Filters installs and supplies ventilation air filter systems to the public, cleans commercial restaurant filters, returns used carbon filters to the manufacturer's to "recharge" the carbon, performs RV maintenance, and supplies RV parts to the public. There is a large warehouse that houses the filters, observed hazardous materials, and the RV maintenance bay; and there are numerous RVs and RV parts stored behind and along side the facility. Observed hazardous waste streams included used oil, used oil filters, used antifreeze, universal wastes, and ... [TRUNCATED: Refer to full Inspection Report]
Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-07-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Routine Hazardous Materials Business Plan (HMBP) inspection of Applied Air Filters located at 38424 Cedar Blvd Newark, CA Castro Valley, CA 94560. Met with General Manager, James Kanomata, who granted consent to perform inspection. Alameda County Department of Environmental Health (ACDEH) to provide inspection report by email to:jimk@appliedairfilters.com. Facility installs and supplies ventilation air filter systems to the public. Facility also performs RV repairs and supplies RV parts to the public.
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-07-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Routine Hazardous Waste Generator (HWG) inspection of Applied Air Filters located at 38424 Cedar Blvd Newark, CA Castro Valley, CA 94560. Met with General Manager, James Kanomata, who granted consent to perform inspection. Alameda County Department of Environmental Health (ACDEH) to provide inspection report by email to: jimk@appliedairfilters.com. Facility installs and supplies ventilation air filter systems to the public. Facility also performs RV repairs and supplies RV parts to the public. Hazardous waste streams includes: used oil, used antifreeze, and bad carbon. Facility has two RV technicians that handle hazardous waste.
Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	04-16-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency

APPLIED AIR FILTERS (Continued) **S121781469**

Eval Notes: Alameda County Department of Environmental Health onsite for follow up inspection. Consent provided by Jim Kanomata, Facility Manager. The facility still has open violations from the routine inspection that need to be corrected: 1. Submit Hazardous Materials Business Plan (HMBP in CERS. 2. Provide training in the HMBP for all employees and submit training record. 3. Secure compressed gas cylinders. During inspection, emergency response plan was completed and was saved to be downloaded in CERS. Facilty staff sent property owner notification during inspection.
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Coordinates:
Site ID: 423316
Facility Name: APPLIED AIR FILTERS
Env Int Type Code: HWG
Program ID: 10738222
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 37.532800
Longitude: -122.010540

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: NICASIO GUTIERREZ
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Property Owner
Entity Name: Frank Freitas
Entity Title: Not reported
Affiliation Address: 38370 CEDAR BLVD
Affiliation City: NEWARK
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94560
Affiliation Phone: (510) 366-7980,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 38424 CEDAR BLVD
Affiliation City: NEWARK
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94560
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: NICASIO GUTIERREZ

APPLIED AIR FILTERS (Continued) **S121781469**

Entity Title: PRESIDENT
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: NICASIO GUTIERREZ
Entity Title: Not reported
Affiliation Address: 38424 CEDAR BLVD
Affiliation City: NEWARK
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94560
Affiliation Phone: (510) 742-1101,

Affiliation Type Desc: Operator
Entity Name: NICASIO GUTIERREZ
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 742-1101,

Affiliation Type Desc: Environmental Contact
Entity Name: NICASIO GUTIERREZ
Entity Title: Not reported
Affiliation Address: 38424 CEDAR BLVD
Affiliation City: NEWARK
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94560
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: APPLIED AIR FILTERS
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: Alameda County Env Health
Entity Title: Not reported
Affiliation Address: 1131 Harbor Parkway, Suite 240
Affiliation City: Alameda
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94502-6577
Affiliation Phone: (510) 567-6700,

B34 **BAY AREA BODY SHOP** **RCRA-SQG** **1000175256**
WNW **38472 CEDAR BLVD** **FINDS** **CAD982319675**
< 1/8 **NEWARK, CA 94560** **ECHO**
0.093 mi.
492 ft. **Site 10 of 19 in cluster B**

Relative: **Higher**
Actual: **33 ft.**

RCRA-SQG:

Date Form Received by Agency:		19930310
Handler Name:	BAY AREA BODY SHOP	
Handler Address:		38472 CEDAR BLVD
Handler City,State,Zip:		NEWARK, CA 94560
EPA ID:		CAD982319675
Contact Name:		DAVID SERRADELL
Contact Address:		38472 CEDAR BLVD
Contact City,State,Zip:		NEWARK, CA 94560
Contact Telephone:		415-790-1766
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA
State District:		2
Mailing Address:		38472 CEDAR BLVD
Mailing City,State,Zip:		NEWARK, CA 94560
Owner Name:		DAVID SERRADELL
Owner Type:		Private
Operator Name:		NOT REQUIRED
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

BAY AREA BODY SHOP (Continued) **1000175256**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DAVID SERRADELL
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1619 CERVATO CIR
Owner/Operator City,State,Zip:	ALAMO, CA 94507
Owner/Operator Telephone:	510-790-1766
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

BAY AREA BODY SHOP (Continued) **1000175256**

Historic Generators:
Receive Date: 19930310
Handler Name: BAY AREA BODY SHOP
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002431262

Click Here:

Environmental Interest/Information System:
AIR EMISSIONS CLASSIFICATION UNKNOWN
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER
Registry ID: 110070730364

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000175256
Registry ID: 110002431262

BAY AREA BODY SHOP (Continued) **1000175256**

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002431262
Name: BAY AREA BODYSHOP
Address: 38472 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560

B35 **GOLDEN STATE AUTO COLLISION INC** **RCRA NonGen / NLR** **1024860549**
WNW **38594 CEDAR BLVD UNIT A** **CAL000428994**
< 1/8 **NEWARK, CA 94560**
0.093 mi.
492 ft. **Site 11 of 19 in cluster B**

Relative: **Higher**
Actual: **33 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20170707
Handler Name:	GOLDEN STATE AUTO COLLISION INC
Handler Address:	38594 CEDAR BLVD UNIT A
Handler City,State,Zip:	NEWARK, CA 94560
EPA ID:	CAL000428994
Contact Name:	KY LAI
Contact Address:	38594 CEDAR BLVD UNIT A
Contact City,State,Zip:	NEWARK, CA 94560
Contact Telephone:	408-623-6575
Contact Fax:	844-316-3258
Contact Email:	GSACREPAIR@AOL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	38594 CEDAR BLVD UNIT A
Mailing City,State,Zip:	NEWARK, CA 94560
Owner Name:	GOLDEN STATE AUTO COLLISION INC
Owner Type:	Other
Operator Name:	KY LAI
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N

GOLDEN STATE AUTO COLLISION INC (Continued) **1024860549**

Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180907
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GOLDEN STATE AUTO COLLISION INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38594 CEDAR BLVD UNIT A
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-910-4843
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KY LAI
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38594 CEDAR BLVD UNIT A

GOLDEN STATE AUTO COLLISION INC (Continued) **1024860549**

Owner/Operator City,State,Zip: NEWARK, CA 94560
Owner/Operator Telephone: 408-623-6575
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20170707
Handler Name: GOLDEN STATE AUTO COLLISION INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B36 **CALIFORNIA CAMPER REPAIR** **RCRA NonGen / NLR** **1024811524**
WNW **38456 CEDAR BLVD** **CAL000295505**
< 1/8 **NEWARK, CA 94560**
0.093 mi.
492 ft. **Site 12 of 19 in cluster B**

Relative:
Higher

Actual:
33 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 20050622
Handler Name: CALIFORNIA CAMPER REPAIR
Handler Address: 38456 CEDAR BLVD
Handler City,State,Zip: NEWARK, CA 94560-0000
EPA ID: CAL000295505
Contact Name: DUANE HUGHES/MIKE LANE - OWNERS
Contact Address: 781 RIVER PARK DR
Contact City,State,Zip: SAN JOSE, CA 95111
Contact Telephone: 408-218-0641
Contact Fax: 510-745-9190
Contact Email: CALIFORNIACAMPER@AOL.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported

CALIFORNIA CAMPER REPAIR (Continued) **1024811524**

Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	38456 CEDAR BLVD
Mailing City,State,Zip:	NEWARK, CA 94560-0000
Owner Name:	CALIFORNIA CAMPER REPAIR INC
Owner Type:	Other
Operator Name:	DUANE HUGHES/MIKE LANE - OWNERS
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905

CALIFORNIA CAMPER REPAIR (Continued) **1024811524**

Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CALIFORNIA CAMPER REPAIR INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	781 RIVER PARK DR
Owner/Operator City,State,Zip:	SAN JOSE, CA 95111-1552
Owner/Operator Telephone:	408-218-0641
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DUANE HUGHES/MIKE LANE - OWNERS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	781 RIVER PARK DR
Owner/Operator City,State,Zip:	SAN JOSE, CA 95111
Owner/Operator Telephone:	408-218-0641
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20050622
Handler Name:	CALIFORNIA CAMPER REPAIR
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	44121
NAICS Description:	RECREATIONAL VEHICLE DEALERS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

CALIFORNIA CAMPER REPAIR (Continued) **1024811524**

Evaluation Action Summary:
Evaluations: No Evaluations Found

B37 **BRACHO MARBLE & GRANITE** **CERS HAZ WASTE** **1006011468**
WNW **38456 CEDAR BLVD** **FINDS** **N/A**
< 1/8 **NEWARK, CA 94560** **ECHO**
0.093 mi. **EMI**
492 ft. **Site 13 of 19 in cluster B** **CERS**

Relative: Higher

Actual: 33 ft.

CERS HAZ WASTE:
Name: CALIFORNIA CAMPER REPAIR
Address: 38456 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Site ID: 388817
CERS ID: 10002454
CERS Description: Hazardous Waste Generator

FINDS:
Registry ID: 110001151921

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
HAZARDOUS AIR POLLUTANT MAJOR
STATE MASTER
Registry ID: 110055751823

Click Here:

Environmental Interest/Information System:
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1006011468
Registry ID: 110001151921
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110001151921
Name: CALIFORNIA CAMPER REPAIR
Address: 38456 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560

EMI:
Name: CALIFORNIA CAMPER REPAIR
Address: 38456 CEDAR BLVD
City,State,Zip: NEWARK, CA 945600000
Year: 1990
County Code: 1
Air Basin: SF
Facility ID: 6460

BRACHO MARBLE & GRANITE (Continued) **1006011468**

Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CALIFORNIA CAMPER REPAIR
Address:	38456 CEDAR BLVD
City,State,Zip:	NEWARK, CA 945600000
Year:	2002
County Code:	1
Air Basin:	SF
Facility ID:	6460
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CALIFORNIA CAMPER REPAIR
Address:	38456 CEDAR BLVD
City,State,Zip:	NEWARK, CA 945600000
Year:	2003
County Code:	1
Air Basin:	SF
Facility ID:	6460
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CALIFORNIA CAMPER REPAIR
Address:	38456 CEDAR BLVD
City,State,Zip:	NEWARK, CA 945600000
Year:	2004

BRACHO MARBLE & GRANITE (Continued) **1006011468**

County Code:	1
Air Basin:	SF
Facility ID:	17031
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.077
Reactive Organic Gases Tons/Yr:	0.0686278
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CALIFORNIA CAMPER REPAIR
Address:	38456 CEDAR BLVD
City,State,Zip:	NEWARK, CA 945600000
Year:	2005
County Code:	1
Air Basin:	SF
Facility ID:	17031
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.077
Reactive Organic Gases Tons/Yr:	.0686278
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CALIFORNIA CAMPER REPAIR
Address:	38456 CEDAR BLVD
City,State,Zip:	NEWARK, CA 945600000
Year:	2006
County Code:	1
Air Basin:	SF
Facility ID:	17031
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.078
Reactive Organic Gases Tons/Yr:	.0667098
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CALIFORNIA CAMPER REPAIR

BRACHO MARBLE & GRANITE (Continued) **1006011468**

Address:	38456 CEDAR BLVD
City,State,Zip:	NEWARK, CA 945600000
Year:	2007
County Code:	1
Air Basin:	SF
Facility ID:	17031
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.078
Reactive Organic Gases Tons/Yr:	.0667098
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CALIFORNIA CAMPER REPAIR
Address:	38456 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
Year:	2008
County Code:	1
Air Basin:	SF
Facility ID:	17031
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.078
Reactive Organic Gases Tons/Yr:	.0667098
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CALIFORNIA CAMPER REPAIR
Address:	38456 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
Year:	2009
County Code:	1
Air Basin:	SF
Facility ID:	17031
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.078
Reactive Organic Gases Tons/Yr:	0.0667098
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0

BRACHO MARBLE & GRANITE (Continued) **1006011468**

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Name:	CALIFORNIA CAMPER REPAIR
Address:	38456 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
Year:	2010
County Code:	1
Air Basin:	SF
Facility ID:	17031
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.11899999999999999
Reactive Organic Gases Tons/Yr:	0.1002574
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CALIFORNIA CAMPER REPAIR
Address:	38456 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
Year:	2011
County Code:	1
Air Basin:	SF
Facility ID:	17031
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.119
Reactive Organic Gases Tons/Yr:	0.1002574
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CALIFORNIA CAMPER REPAIR
Address:	38456 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
Year:	2012
County Code:	1
Air Basin:	SF
Facility ID:	17031
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.119
Reactive Organic Gases Tons/Yr:	0.1002574
Carbon Monoxide Emissions Tons/Yr:	0

BRACHO MARBLE & GRANITE (Continued) **1006011468**

NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: CALIFORNIA CAMPER REPAIR
Address: 38456 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Year: 2013
County Code: 1
Air Basin: SF
Facility ID: 17031
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.119
Reactive Organic Gases Tons/Yr: 0.1002574
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: CALIFORNIA CAMPER REPAIR
Address: 38456 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Year: 2014
County Code: 1
Air Basin: SF
Facility ID: 17031
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.117689516
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: CALIFORNIA CAMPER REPAIR
Address: 38456 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Year: 2015
County Code: 1
Air Basin: SF
Facility ID: 17031
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

BRACHO MARBLE & GRANITE (Continued) **1006011468**

Total Organic Hydrocarbon Gases Tons/Yr:	0.117689519
Reactive Organic Gases Tons/Yr:	0.117689509
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	CALIFORNIA CAMPER REPAIR
Address:	38456 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
Year:	2018
County Code:	1
Air Basin:	SF
Facility ID:	17031
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.026400001
Reactive Organic Gases Tons/Yr:	0.026080560988
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	CALIFORNIA CAMPER REPAIR
Address:	38456 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
Year:	2019
County Code:	1
Air Basin:	SF
Facility ID:	17031
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.024000001
Reactive Organic Gases Tons/Yr:	0.023709600988
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

CERS:

Name:	CALIFORNIA CAMPER REPAIR
Address:	38456 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
Site ID:	388817
CERS ID:	10002454
CERS Description:	Chemical Storage Facilities

Violations:

BRACHO MARBLE & GRANITE (Continued) **1006011468**

Site ID:	388817
Site Name:	CALIFORNIA CAMPER REPAIR
Violation Date:	07-06-2017
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 09/01/2017. OBSERVATIONS: 1.Observed one black 55 gallon drum of drained used oil filters with no label. Provide "Used Oil Filter" label. 2. Observed propane cylinder not properly secured. Properly secure propane cylinders to prevent falling due to contact, vibration, or seismic activity. 3. Observed empty label on one 30 gallon drum with paint thinner waste. Remove empty label from drum. 4. Observed 10 gallon container of antifreeze with no label. Provide label for antifreeze. CORRECTIVE ACTIONS: 1. Provide "Used Oil Filter Label" for 55 gallon drum of drain used oil filters. Submit photo documentation to the CUPA demonstrating proof of corrective action within thirty days. 2. Properly secure propane cylinder. Submit photo documentation to the CUPA demonstrating proof of corrective action within 30 days. 3. Remove empty label from 30 gallon paint thinner waste drum. Submit photo documentation to the CUPA demonstrating proof of corrective action within 30 [Truncated]
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	388817
Site Name:	CALIFORNIA CAMPER REPAIR
Violation Date:	11-16-2015
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 12/11/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	388817
Site Name:	CALIFORNIA CAMPER REPAIR
Violation Date:	07-06-2017
Citation:	HSC 6.5 25201(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25201(a)
Violation Description:	Failure to dispose of hazardous waste at a facility which has a permit from DTSC or disposing of hazardous waste at any point which is not authorized according to this chapter.
Violation Notes:	Returned to compliance on 12/12/2017. OBSERVATION: Facility employee stated that spent absorbent is discarded in regular garbage. CORRECTIVE ACTION: Spent absorbents with used oil should be treated as hazardous waste. Dispose of spent absorbents as hazardous waste. Store spent absorbent in container labeled with hazardous waste. Submit proof of corrective actions to CUPA.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

BRACHO MARBLE & GRANITE (Continued) **1006011468**

Site ID:	388817
Site Name:	CALIFORNIA CAMPER REPAIR
Violation Date:	07-06-2017
Citation:	HSC 6.5 25123.3(h)(1)(c) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)(c)
Violation Description:	Failure to send hazardous waste offsite for treatment, storage, or disposal of acute/extremely hazardous waste after the first 1-kilogram threshold amount was accumulated within a 90 day period.
Violation Notes:	Returned to compliance on 09/08/2017. OBSERVATION: One 30 gallon of waste based solvent and one 30 gallon of waste paint thinner observed in paint storage area and has not been picked up since 2015. CORRECTIVE ACTION: Immediately dispose of waste based solvent and waste paint thinner and submit copy of the disposal receipt to inspector within 30 days. All hazardous waste must be disposed of within 90 days once 27 gallons of hazardous waste has been generated.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	388817
Site Name:	CALIFORNIA CAMPER REPAIR
Violation Date:	07-06-2017
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 09/19/2017. OBSERVATION: Initial and refresher training documentation for all employees was not available. CORRECTIVE ACTION: Submit documentation to the CUPA demonstrating that employees have received training on safe handling of hazardous materials. Maintain training records for three years. ACDEH provided HMBP training form to facility as an example of required documentation.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	388817
Site Name:	CALIFORNIA CAMPER REPAIR
Violation Date:	07-06-2017
Citation:	HSC 6.5 25163(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25163(a)
Violation Description:	Failure to use a DTSC registered hazardous waste transporter to transport hazardous waste or transporting hazardous waste without being a DTSC registered hazardous waste transporter.
Violation Notes:	Returned to compliance on 12/12/2017. OBSERVATION: Facility employee stated that spent absorbent is discarded in regular garbage. CORRECTIVE ACTION: Spent absorbents with used oil should be treated as hazardous waste. Dispose of spent absorbents as hazardous waste. Store spent absorbent in container labeled with hazardous waste. Submit proof of corrective actions to CUPA.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

BRACHO MARBLE & GRANITE (Continued) **1006011468**

Site ID:	388817
Site Name:	CALIFORNIA CAMPER REPAIR
Violation Date:	07-06-2017
Citation:	40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description:	Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies.
Violation Notes:	Returned to compliance on 10/03/2017. OBSERVATION: Facility employee stated that no annual training was given in hazardous waste handling procedures. CORRECTIVE ACTION: Submit documentation to the CUPA demonstrating that employees have received training in hazardous waste handling procedures.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

Site ID:	388817
Site Name:	CALIFORNIA CAMPER REPAIR
Violation Date:	09-30-2014
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/14/2014.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	388817
Site Name:	CALIFORNIA CAMPER REPAIR
Violation Date:	07-06-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 12/12/2017. OBSERVATIONS: 1. Observed one 55 gallon drum of drained used oil filters with no hazardous waste label. 2. Observed one 30 gallon drum of water based solvent with missing physical state and hazardous properties information on hazardous waste label. 3. Observed one 30 gallon drum of paint thinner with missing physical state and hazardous properties information on hazardous waste label. 4. Observed one 55 gallon drum of used oil with missing accumulation start date information on hazardous waste label. CORRECTIVE ACTIONS: 1. Provide used oil filter label for 55 gallon drum of drained oil filters. Submit photo documentation demonstrating that label has been provided to CUPA within 30 days. 2. Provide missing physical state and hazardous properties information for 30 gallon drum of water based solvent. Submit photo documentation demonstrating that missing physical state and hazardous information has been provided on label to CUPA within 30 days. [Truncated]
Violation Division:	Alameda County Environmental Health
Violation Program:	HW

BRACHO MARBLE & GRANITE (Continued) **1006011468**

Violation Source:	CERS,
Site ID:	388817
Site Name:	CALIFORNIA CAMPER REPAIR
Violation Date:	07-06-2017
Citation:	40 CFR 1 265.174 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.174
Violation Description:	Failure to inspect hazardous waste storage areas at least weekly and look for leaking and deteriorating containers.
Violation Notes:	Returned to compliance on 09/08/2017. OBSERVATION: Observed hazardous waste labels not filled out properly (missing accumulation start dates, physical and chemical properties of the chemical) on hazardous waste containers. CORRECTIVE ACTION: Conduct weekly inspections and ensure hazardous waste labels are filled out properly. Submit proof of corrective actions to CUPA.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	388817
Site Name:	CALIFORNIA CAMPER REPAIR
Violation Date:	05-21-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 05/29/2018.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	388817
Site Name:	CALIFORNIA CAMPER REPAIR
Violation Date:	09-17-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 09/24/2019.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	388817
Site Name:	CALIFORNIA CAMPER REPAIR
Violation Date:	07-06-2017
Citation:	HSC 6.95 25505.1 - California Health and Safety Code, Chapter 6.95, Section(s) 25505.1
Violation Description:	Failure to provide a copy of the business plan to the owner or the owner’s agent within five working days after receiving a request for a copy from the owner or the owner’s agent.
Violation Notes:	Returned to compliance on 09/08/2017. OBSERVATION: The facility leases the property and has not notified the property owner in writing that a HMBP is required for the business and complied with all of its provisions. CORRECTIVE ACTION: Submit documentation to the CUPA

BRACHO MARBLE & GRANITE (Continued) **1006011468**

demonstrating that you have complied with the requirement.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 388817
Site Name: CALIFORNIA CAMPER REPAIR
Violation Date: 04-13-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 04/19/2017.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 388817
Site Name: CALIFORNIA CAMPER REPAIR
Violation Date: 07-24-2013
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 08/02/2013.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-11-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: SCHEDULED HMBP INSPECTION
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 04-13-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER/ADD VIOLATION
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-06-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine Hazardous Materials Business Plan (HMBP) inspection of California Camper Repair located at 38456 Cedar Blvd Newark, CA 94560. California Camper Repair provides comprehensive repair and maintenance

BRACHO MARBLE & GRANITE (Continued) **1006011468**

	for all types of camper units. ACDEH Inspectors Roseanna Garcia-LaGrille and Antoinette Stetzenmeyer conducted the inspection. Facility walk through conducted with facility employee Mike Lane. Email reports to: californiacamper@aol.com. All violations noted in this Hazardous Materials Business Plan (HMBP) inspection report are to be corrected within THIRTY (30) days and proof of those corrections submitted to this office in the same time frame.
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	07-24-2013
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBP NOV LETTER
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-06-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Routine Hazardous Waste Generator (HWG) inspection of California Camper Repair located at 38456 Cedar Blvd Newark, CA 94560. ACDEH Inspectors Roseanna Garcia-LaGrille and Antoinette Stetzenmeyer conducted the inspection. Facility walk through conducted with facility employee Mike Lane. California Camper Repair provides comprehensive repair and maintenance for all types of camper units. Hazardous waste generated at this facility includes: used oil, used oil filters, and paint solvent waste. Facility does not generate more than 27 gallons or 220 pounds of hazardous waste per month and is a conditionally exempt small quantity generator. Email reports to: californiacamper@aol.com. All violations noted in this Hazardous Waste Generator (HWG) inspection report are to be corrected within THIRTY (30) days and proof of those corrections submitted to this office in the same time frame.
Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	09-30-2014
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBP NOV LETTER
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	11-16-2015
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBP NOV LETTER
Eval Division:	Alameda County Environmental Health

BRACHO MARBLE & GRANITE (Continued) **1006011468**

Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-11-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HW GENERATOR INSPECTION
Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-22-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: GENERATE NIV NOV LTR/ADDING VIOLATION IN EC
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-17-2019
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 388817
Site Name: CALIFORNIA CAMPER REPAIR
Site Address: 38456 CEDAR BLVD
Site City: NEWARK
Site Zip: 94560
Enf Action Date: 12-23-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 388817
Site Name: CALIFORNIA CAMPER REPAIR
Site Address: 38456 CEDAR BLVD
Site City: NEWARK
Site Zip: 94560
Enf Action Date: 04-13-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

BRACHO MARBLE & GRANITE (Continued) **1006011468**

Coordinates:

Site ID:	388817
Facility Name:	CALIFORNIA CAMPER REPAIR
Env Int Type Code:	HMBP
Program ID:	10002454
Coord Name:	Not reported
Ref Point Type Desc:	Unknown,
Latitude:	37.532448
Longitude:	-122.009870

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	mike Lane
Entity Title:	Not reported
Affiliation Address:	38456 Cedar Blvd
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	38456 Cedar Blvd
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	Duane Hughes
Entity Title:	Not reported
Affiliation Address:	38456 Cedar Blvd PO BOX 24
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94560
Affiliation Phone:	(510) 793-8157,

Affiliation Type Desc:	Operator
Entity Name:	Duane Hughes
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 793-8157,

Affiliation Type Desc:	Parent Corporation
Entity Name:	CALIFORNIA CAMPER REPAIR
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

BRACHO MARBLE & GRANITE (Continued) **1006011468**

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: Alameda County Env Health
Entity Title: Not reported
Affiliation Address: 1131 Harbor Parkway, Suite 240
Affiliation City: Alameda
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94502-6577
Affiliation Phone: (510) 567-6700,

Affiliation Type Desc: Document Preparer
Entity Name: Duane Hughes
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Duane hughes
Entity Title: pres
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: CALIFORNIA CAMPER REPAIR
Address: 38456 CEDAR BLVD
City,State,Zip: NEWARK, CA 94560-4802
Site ID: 456828
CERS ID: 110001151921
CERS Description: US EPA Air Emission Inventory System (EIS)

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: MIKE LANE
Entity Title: Not reported
Affiliation Address: 38456 CEDAR BLVD
Affiliation City: NEWARK
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

B38 **DBA ZIPIN OUT AUTO SERVICES** **RCRA NonGen / NLR** **1024835718**
WNW **38592 CEDAR BLVD** **CAL000378196**
< 1/8 **NEWARK, CA 94560**
0.093 mi.
492 ft. **Site 14 of 19 in cluster B**

Relative: **Higher**

Actual: **33 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20120917
Handler Name:	DBA ZIPIN OUT AUTO SERVICES
Handler Address:	38592 CEDAR BLVD
Handler City,State,Zip:	NEWARK, CA 94560
EPA ID:	CAL000378196
Contact Name:	ABDUL KHALIQ
Contact Address:	38592 CEDAR BLVD
Contact City,State,Zip:	NEWARK, CA 94560
Contact Telephone:	510-760-3875
Contact Fax:	999-999-9999
Contact Email:	ADMIN@SIPINOUT.NET
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	38592 CEDAR BLVD
Mailing City,State,Zip:	NEWARK, CA 94560
Owner Name:	ABDUL KHALIQ
Owner Type:	Other
Operator Name:	ABDUL KHALIQ
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

DBA ZIPIN OUT AUTO SERVICES (Continued) **1024835718**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ABDUL KHALIQ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38592 CEDAR BLVD
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-760-3875
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ABDUL KHALIQ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38592 CEDAR BLVD
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-760-3875
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

DBA ZIPIN OUT AUTO SERVICES (Continued) **1024835718**

Historic Generators:
Receive Date: 20120917
Handler Name: DBA ZIPIN OUT AUTO SERVICES
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B39 **JINNSPEED LLC** **RCRA NonGen / NLR** **1026723740**
WNW **38592 CEDAR BLVD STE A** **CAL000460858**
< 1/8 **NEWARK, CA 94560**
0.093 mi.
492 ft. **Site 15 of 19 in cluster B**

Relative:
Higher

Actual:
33 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 20210310
Handler Name: JINNSPEED LLC
Handler Address: 38592 CEDAR BLVD STE A
Handler City,State,Zip: NEWARK, CA 94560
EPA ID: CAL000460858
Contact Name: CODI TERRILL
Contact Address: 38592 CEDAR BLVD STE A
Contact City,State,Zip: NEWARK, CA 94560
Contact Telephone: 669-400-9800
Contact Fax: Not reported
Contact Email: CODI@JINNSPEED.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Not reported
State District: Not reported
Mailing Address: 38592 CEDAR BLVD STE A
Mailing City,State,Zip: NEWARK, CA 94560
Owner Name: JINNSPEED LLC

JINNSPEED LLC (Continued) **1026723740**

Owner Type:	Other
Operator Name:	CODI TERRILL
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210312
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

JINNSPEED LLC (Continued) **1026723740**

Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	CODI TERRILL
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38592 CEDAR BLVD STE A
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	669-400-9800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JINNSPEED LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38592 CEDAR BLVD STE A
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	669-400-9800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20210310
Handler Name: JINNSPEED LLC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

B40 **APPLIED AIR FILTERS GMC** **RCRA NonGen / NLR** **1024834840**
WNW **38424 CEDAR BLVD** **CAL000375933**
< 1/8 **NEWARK, CA 94560**
0.093 mi.
492 ft. **Site 16 of 19 in cluster B**

Relative: **Higher**
Actual: **33 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	20120703
Handler Name: APPLIED AIR FILTERS GMC	
Handler Address:	38424 CEDAR BLVD
Handler City,State,Zip:	NEWARK, CA 94560
EPA ID:	CAL000375933
Contact Name:	NICASIO GUTIERREZ, PRESIDENT
Contact Address:	38424 CEDAR BLVD
Contact City,State,Zip:	NEWARK, CA 94560
Contact Telephone:	510-742-1101
Contact Fax:	510-742-1118
Contact Email:	NICKG@APPLIEDAIRFILTERS.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	38424 CEDAR BLVD
Mailing City,State,Zip:	NEWARK, CA 94560-0000
Owner Name:	NICASIO GUTIERREZ
Owner Type:	Other
Operator Name:	NICASIO GUTIERREZ, PRESIDENT
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

APPLIED AIR FILTERS GMC (Continued) **1024834840**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NICASIO GUTIERREZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38424 CEDAR BLVD
Owner/Operator City,State,Zip:	NEWARK, CA 94560-0000
Owner/Operator Telephone:	510-742-1101
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NICASIO GUTIERREZ, PRESIDENT
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38424 CEDAR BLVD
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-742-1101
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

APPLIED AIR FILTERS GMC (Continued) **1024834840**

Historic Generators:
Receive Date: 20120703
Handler Name: APPLIED AIR FILTERS GMC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B41 **BAY AREA BODY SHOP** **RCRA NonGen / NLR** **1024790973**
WNW **38472 CEDAR BLVD** **CAL000095629**
< 1/8 **NEWARK, CA 94560**
0.093 mi.
492 ft. **Site 17 of 19 in cluster B**

Relative: **Higher**
Actual: **33 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 19930716
Handler Name: BAY AREA BODY SHOP
Handler Address: 38472 CEDAR BLVD
Handler City,State,Zip: NEWARK, CA 94560-0000
EPA ID: CAL000095629
Contact Name: DAVE SERRADELL
Contact Address: 38472 CEDAR BLVD
Contact City,State,Zip: NEWARK, CA 94560
Contact Telephone: 510-790-1766
Contact Fax: 510-790-0914
Contact Email: BAYAREABODY@YAHOO.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: 38472 CEDAR BLVD
Mailing City,State,Zip: NEWARK, CA 94560-4802
Owner Name: ALAMAND INC

BAY AREA BODY SHOP (Continued) **1024790973**

Owner Type:	Other
Operator Name:	DAVE SERRADELL
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

BAY AREA BODY SHOP (Continued) **1024790973**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: ALAMAND INC
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 38472 CEDAR BLVD
Owner/Operator City,State,Zip: NEWARK, CA 94560-4802
Owner/Operator Telephone: 510-790-1766
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: DAVE SERRADELL
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 38472 CEDAR BLVD
Owner/Operator City,State,Zip: NEWARK, CA 94560
Owner/Operator Telephone: 510-790-1766
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19930716
Handler Name: BAY AREA BODY SHOP
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B42 **BRACHO MARBLE** **RCRA NonGen / NLR** **1024870033**
WNW **38456 CEDAR BLVD** **CAL000438660**
< 1/8 **NEWARK, CA 94560**
0.093 mi.
492 ft. **Site 18 of 19 in cluster B**

Relative: **Higher**
Actual: **33 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20180824
Handler Name:	BRACHO MARBLE	
Handler Address:		38456 CEDAR BLVD
Handler City,State,Zip:		NEWARK, CA 94560
EPA ID:		CAL000438660
Contact Name:		HENRY LOPEZ
Contact Address:		38456 CEDAR BLVD
Contact City,State,Zip:		NEWARK, CA 94560
Contact Telephone:		650-444-4479
Contact Fax:		Not reported
Contact Email:		BRANCHOMARBLE@YAHOO.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		38456 CEDAR BLVD
Mailing City,State,Zip:		NEWARK, CA 94560
Owner Name:		HENRY LOPEZ
Owner Type:		Other
Operator Name:		HENRY LOPEZ
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

BRACHO MARBLE (Continued) **1024870033**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180907
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	HENRY LOPEZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38456 CEDAR BLVD
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	650-444-4479
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	HENRY LOPEZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38456 CEDAR BLVD
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	650-444-4479
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

BRACHO MARBLE (Continued) **1024870033**

Historic Generators:
Receive Date: 20180824
Handler Name: BRACHO MARBLE
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 327991
NAICS Description: CUT STONE AND STONE PRODUCT MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B43 **DON SIGNER BUICK** **RCRA-SQG** **1000131855**
WNW **38478 CEDAR BLVD** **FINDS** **CAD982478679**
< 1/8 **NEWARK, CA 94560** **ECHO**
0.093 mi.
493 ft. **Site 19 of 19 in cluster B**

Relative: **Higher**
Actual: **33 ft.**

RCRA-SQG:
Date Form Received by Agency: 19880620
Handler Name: DON SIGNER BUICK
Handler Address: 38478 CEDAR BLVD
Handler City,State,Zip: NEWARK, CA 94560
EPA ID: CAD982478679
Contact Name: ENVIRONMENTAL MANAGER
Contact Address: 38478 CEDAR BLVD
Contact City,State,Zip: NEWARK, CA 94560
Contact Telephone: 415-794-9333
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 09
Land Type: Other
Federal Waste Generator Description: Small Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: CA
State District: 2
Mailing Address: 38623 FREMONT BLVD
Mailing City,State,Zip: FREMONT, CA 94538
Owner Name: SIGNER DON

DON SIGNER BUICK (Continued) **1000131855**

Owner Type:	Private
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported

DON SIGNER BUICK (Continued) **1000131855**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: NOT REQUIRED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: SIGNER DON
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19880620
Handler Name: DON SIGNER BUICK
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002823874

DON SIGNER BUICK (Continued) **1000131855**

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000131855
Registry ID:	110002823874
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002823874
Name:	DON SIGNER BUICK
Address:	38478 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560

---

44 **BELLFLOWER WELL** **PFAS** **S127521649**
SW **N/A**
< 1/8 **FREMONT, CA**
0.119 mi.
628 ft.

Relative: **Lower**

Actual: **27 ft.**

PFAS:

Name:	BELLFLOWER WELL
Address:	Not reported
City,State,Zip:	FREMONT, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0600110001
Facility Region:	Not reported
Lead Agency:	Not reported
Case worker:	Not reported
Local Agency:	Not reported
Location Case Number:	Not reported
File Location:	Not reported
Potential Contaminants of Concern:	Not reported
Potential Media Affected:	Not reported
Site History:	Not reported
Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	0110001-049
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	5.3
Reporting Limit:	Not reported
Detection Limit:	Not reported

BELLFLOWER WELL (Continued) **S127521649**

Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	6/10/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	37.530484
Longitude:	-122.00989
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0600110001

Name:	BELLFLOWER WELL
Address:	Not reported
City,State,Zip:	FREMONT, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0600110001
Facility Region:	Not reported
Lead Agency:	Not reported
Case worker:	Not reported
Local Agency:	Not reported
Location Case Number:	Not reported
File Location:	Not reported
Potential Contaminants of Concern:	Not reported
Potential Media Affected:	Not reported
Site History:	Not reported

Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	0110001-049
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	6/10/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	37.530484
Longitude:	-122.00989
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0600110001

Name:	BELLFLOWER WELL
Address:	Not reported
City,State,Zip:	FREMONT, CA
Envirostor ID:	Not reported
Program Type:	Not reported

BELLFLOWER WELL (Continued) **S127521649**

Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0600110001
Facility Region:	Not reported
Lead Agency:	Not reported
Case worker:	Not reported
Local Agency:	Not reported
Location Case Number:	Not reported
File Location:	Not reported
Potential Contaminants of Concern:	Not reported
Potential Media Affected:	Not reported
Site History:	Not reported
Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	0110001-049
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	5.6
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	9/15/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	37.530484
Longitude:	-122.00989
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0600110001
Name:	BELLFLOWER WELL
Address:	Not reported
City,State,Zip:	FREMONT, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0600110001
Facility Region:	Not reported
Lead Agency:	Not reported
Case worker:	Not reported
Local Agency:	Not reported
Location Case Number:	Not reported
File Location:	Not reported
Potential Contaminants of Concern:	Not reported
Potential Media Affected:	Not reported
Site History:	Not reported
Begin Date:	Not reported

BELLFLOWER WELL (Continued) **S127521649**

RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	0110001-049
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	5.9
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	1.48
Units:	NG/L
Date:	11/4/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	37.530484
Longitude:	-122.00989
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0600110001

Name:	BELLFLOWER WELL
Address:	Not reported
City,State,Zip:	FREMONT, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0600110001
Facility Region:	Not reported
Lead Agency:	Not reported
Case worker:	Not reported
Local Agency:	Not reported
Location Case Number:	Not reported
File Location:	Not reported
Potential Contaminants of Concern:	Not reported
Potential Media Affected:	Not reported
Site History:	Not reported

Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	0110001-049
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	0
Units:	NG/L
Date:	11/4/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well

BELLFLOWER WELL (Continued) **S127521649**

Latitude:	37.530484
Longitude:	-122.00989
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0600110001

Name:	BELLFLOWER WELL
Address:	Not reported
City,State,Zip:	FREMONT, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0600110001
Facility Region:	Not reported
Lead Agency:	Not reported
Case worker:	Not reported
Local Agency:	Not reported
Location Case Number:	Not reported
File Location:	Not reported
Potential Contaminants of Concern:	Not reported
Potential Media Affected:	Not reported
Site History:	Not reported

Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	0110001-049
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	6.2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	3.03
Units:	NG/L
Date:	2/10/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	37.530484
Longitude:	-122.00989
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0600110001

Name:	BELLFLOWER WELL
Address:	Not reported
City,State,Zip:	FREMONT, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0600110001
Facility Region:	Not reported
Lead Agency:	Not reported

BELLFLOWER WELL (Continued) **S127521649**

Case worker:	Not reported
Local Agency:	Not reported
Location Case Number:	Not reported
File Location:	Not reported
Potential Contaminants of Concern:	Not reported
Potential Media Affected:	Not reported
Site History:	Not reported
Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	0110001-049
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	0
Units:	NG/L
Date:	2/10/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	37.530484
Longitude:	-122.00989
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0600110001
Name:	BELLFLOWER WELL
Address:	Not reported
City,State,Zip:	FREMONT, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0600110001
Facility Region:	Not reported
Lead Agency:	Not reported
Case worker:	Not reported
Local Agency:	Not reported
Location Case Number:	Not reported
File Location:	Not reported
Potential Contaminants of Concern:	Not reported
Potential Media Affected:	Not reported
Site History:	Not reported
Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	0110001-049
Matrix:	Liquid
Chemical:	PFOS
Qualifier:	=
Value:	5.9

BELLFLOWER WELL (Continued) **S127521649**

Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	4.5
Units:	NG/L
Date:	5/19/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	37.530484
Longitude:	-122.00989
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0600110001

Name:	BELLFLOWER WELL
Address:	Not reported
City,State,Zip:	FREMONT, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0600110001
Facility Region:	Not reported
Lead Agency:	Not reported
Case worker:	Not reported
Local Agency:	Not reported
Location Case Number:	Not reported
File Location:	Not reported
Potential Contaminants of Concern:	Not reported
Potential Media Affected:	Not reported
Site History:	Not reported

Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	0110001-049
Matrix:	Liquid
Chemical:	PFOA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	0
Units:	NG/L
Date:	5/19/2021
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	37.530484
Longitude:	-122.00989
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0600110001

Name:	BELLFLOWER WELL
Address:	Not reported
City,State,Zip:	FREMONT, CA

BELLFLOWER WELL (Continued) **S127521649**

Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0600110001
Facility Region:	Not reported
Lead Agency:	Not reported
Case worker:	Not reported
Local Agency:	Not reported
Location Case Number:	Not reported
File Location:	Not reported
Potential Contaminants of Concern:	Not reported
Potential Media Affected:	Not reported
Site History:	Not reported

Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	0110001-049
Matrix:	Liquid
Chemical:	PFTEDA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	9/15/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	37.530484
Longitude:	-122.00989
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0600110001

Name:	BELLFLOWER WELL
Address:	Not reported
City,State,Zip:	FREMONT, CA
Envirostor ID:	Not reported
Program Type:	Not reported
Status:	Not reported
Status Date:	Not reported
Enviroscreen Score:	Not reported
Site Code:	Not reported
Global ID:	W0600110001
Facility Region:	Not reported
Lead Agency:	Not reported
Case worker:	Not reported
Local Agency:	Not reported
Location Case Number:	Not reported
File Location:	Not reported
Potential Contaminants of Concern:	Not reported
Potential Media Affected:	Not reported
Site History:	Not reported

BELLFLOWER WELL (Continued) **S127521649**

Begin Date:	Not reported
RB Case Number:	Not reported
source_type:	All PFAS Chemicals
Location ID:	0110001-049
Matrix:	Liquid
Chemical:	PFBSA
Qualifier:	<
Value:	2
Reporting Limit:	Not reported
Detection Limit:	Not reported
Lab Notes:	Not reported
Quarterly Running Annual Average:	Not reported
Units:	NG/L
Date:	11/4/2020
Field Pt Class:	PUBW
Site Use:	Drinking Water Wells
Site Type:	DDW Well
Latitude:	37.530484
Longitude:	-122.00989
Geo Tracker URL:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0600110001

Click this hyperlink while viewing on your computer to access
80 additional CA PFAS: record(s) in the EDR Site Report.

C45 **FREMONT CHRISTIAN JUNIOR HIGH** **HIST UST** **U001597769**
WNW **38325 CEDAR BLVD** **N/A**
1/8-1/4 **NEWARK, CA 94560**
0.134 mi.
706 ft. **Site 1 of 2 in cluster C**

Relative:
Higher

Actual:
33 ft.

HIST UST:

Name:	FREMONT CHRISTIAN JUNIOR HIGH
Address:	38325 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
File Number:	00035FB1
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035FB1.pdf
Region:	STATE
Facility ID:	00000057660
Facility Type:	Other
Other Type:	PRIVATE SCHOOL
Contact Name:	DAVID LOOFBURROW
Telephone:	4157911230
Owner Name:	FIRST ASSEMBLY OF GOD CHURCH,
Owner Address:	4760 THORNTON AVE.
Owner City,St,Zip:	FREMONT, CA 94536
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	1984
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Pressure Test
Tank Num:	002
Container Num:	2

FREMONT CHRISTIAN JUNIOR HIGH (Continued) **U001597769**

Year Installed:	1984
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Pressure Test

Click here for Geo Tracker PDF:

C46 **FREMONT PAVING CO INC YARD** **HIST UST** **U001597770**
WNW **28370 CEDAR BLVD** **N/A**
1/8-1/4 **NEWARK, CA 94560**
0.142 mi.
751 ft. **Site 2 of 2 in cluster C**

Relative:
Higher

Actual:
33 ft.

HIST UST:

Name:	FREMONT PAVING CO INC YARD
Address:	28370 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
File Number:	00035FCE
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035FCE.pdf
Region:	STATE
Facility ID:	00000027543
Facility Type:	Other
Other Type:	CONST. YARD
Contact Name:	ELLEN LEBON
Telephone:	4157973553
Owner Name:	FREMONT PAVING CO. INC.
Owner Address:	4603 MAYFIELD DRIVE
Owner City,St,Zip:	FREMONT, CA 94536
Total Tanks:	0006
Tank Num:	001
Container Num:	1
Year Installed:	1965
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	002
Container Num:	2
Year Installed:	1965
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	003
Container Num:	3
Year Installed:	1965
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual

FREMONT PAVING CO INC YARD (Continued) **U001597770**

Tank Num:	004
Container Num:	4
Year Installed:	1974
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	005
Container Num:	5
Year Installed:	1974
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	006
Container Num:	6
Year Installed:	1974
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Click here for Geo Tracker PDF:

D47 **ROSE SARMIENTO** **RCRA NonGen / NLR** **1026801283**
NNW **38503 GRANVILLE DRIVE** **CAC003113223**
1/8-1/4 **FREMONT, CA 94536**
0.180 mi.
952 ft. **Site 1 of 2 in cluster D**

Relative: **Higher**
Actual: **34 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20210405
Handler Name:	ROSE SARMIENTO	
Handler Address:		38503 GRANVILLE DRIVE
Handler City,State,Zip:		FREMONT, CA 94536
EPA ID:		CAC003113223
Contact Name:		ROSE SARMIENTO
Contact Address:		38503 GRANVILLE DRIVE
Contact City,State,Zip:		FREMONT, CA 94536
Contact Telephone:		510-294-9152
Contact Fax:		Not reported
Contact Email:		MELISA@ENV-REM.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		38503 GRANVILLE DRIVE

ROSE SARMIENTO (Continued) **1026801283**

Mailing City,State,Zip:	FREMONT, CA 94536
Owner Name:	ROSE SARMIENTO
Owner Type:	Other
Operator Name:	ROSE SARMIENTO
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210415
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No

ROSE SARMIENTO (Continued) **1026801283**

Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: ROSE SARMIENTO
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 38503 GRANVILLE DRIVE
Owner/Operator City,State,Zip: FREMONT, CA 94536
Owner/Operator Telephone: 510-294-9152
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: ROSE SARMIENTO
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 38503 GRANVILLE DRIVE
Owner/Operator City,State,Zip: FREMONT, CA 94536
Owner/Operator Telephone: 510-294-9152
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20210405
Handler Name: ROSE SARMIENTO
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

D48 **MADELINE RABER** **RCRA NonGen / NLR** **1025864679**
NNW **5385 EGGERS DR** **CAC003045506**
1/8-1/4 **FREMONT, CA 94536**
0.216 mi.
1139 ft. **Site 2 of 2 in cluster D**

Relative: **Higher**

Actual: **35 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20191203
Handler Name:	MADELINE RABER	
Handler Address:		5385 EGGERS DR
Handler City,State,Zip:		FREMONT, CA 94536
EPA ID:		CAC003045506
Contact Name:		MADELINE RABER
Contact Address:		5385 EGGERS DR
Contact City,State,Zip:		FREMONT, CA 94536
Contact Telephone:		510-936-3024
Contact Fax:		Not reported
Contact Email:		JGONZALEZ@RMC.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		5385 EGGERS DR
Mailing City,State,Zip:		FREMONT, CA 94536
Owner Name:		MADELINE RABER
Owner Type:		Other
Operator Name:		MADELINE RABER
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

MADELINE RABER (Continued) **1025864679**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20191206
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MADELINE RABER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5385 EGGERS DR
Owner/Operator City,State,Zip:	FREMONT, CA 94536
Owner/Operator Telephone:	510-936-3024
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MADELINE RABER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5385 EGGERS DR
Owner/Operator City,State,Zip:	FREMONT, CA 94536
Owner/Operator Telephone:	510-936-3024
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

MADELINE RABER (Continued) **1025864679**

Historic Generators:
- Receive Date: 20191203
- Handler Name: MADELINE RABER
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 56299
- NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

49
North
1/8-1/4
0.219 mi.
1156 ft.

LUCILLE ALVAREZ-LEBON **RCRA NonGen / NLR** **1026473954**
38573 FARWELL DRIVE **CAC003079640**
FREMONT, CA 94536

Relative:
Higher

Actual:
35 ft.

RCRA NonGen / NLR:
- Date Form Received by Agency: 20200817
- Handler Name: LUCILLE ALVAREZ-LEBON
- Handler Address: 38573 FARWELL DRIVE
- Handler City,State,Zip: FREMONT, CA 94536
- EPA ID: CAC003079640
- Contact Name: LUCILLE ALVAREZ-LEBON
- Contact Address: 38573 FARWELL DRIVE
- Contact City,State,Zip: FREMONT, CA 94536
- Contact Telephone: 510-299-5870
- Contact Fax: Not reported
- Contact Email: ERICA@ENV-REM.COM
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Not reported
- Federal Waste Generator Description: Not a generator, verified
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Not reported
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: 38573 FARWELL DRIVE
- Mailing City,State,Zip: FREMONT, CA 94536
- Owner Name: LUCILLE ALVAREZ-LEBON

LUCILLE ALVAREZ-LEBON (Continued) **1026473954**

Owner Type:	Other
Operator Name:	LUCILLE ALVAREZ-LEBON
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200904
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

LUCILLE ALVAREZ-LEBON (Continued) **1026473954**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: LUCILLE ALVAREZ-LEBON
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 38573 FARWELL DRIVE
Owner/Operator City,State,Zip: FREMONT, CA 94536
Owner/Operator Telephone: 510-299-5870
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: LUCILLE ALVAREZ-LEBON
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 38573 FARWELL DRIVE
Owner/Operator City,State,Zip: FREMONT, CA 94536
Owner/Operator Telephone: 510-299-5870
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20200817
Handler Name: LUCILLE ALVAREZ-LEBON
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

50
ESE
1/8-1/4
0.250 mi.
1318 ft.

NA (HENRY SCHERING)
N.BOUND 880 @ MOWRY AVE.
FREMONT, CA 92507

Notify 65 **S100178917**
N/A

Relative:
Higher

Actual:
46 ft.

NOTIFY 65:

Name:	NA (HENRY SCHERING)
Address:	N.BOUND 880 @ MOWRY AVE.
City,State,Zip:	FREMONT, CA 92507
Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported
Global ID:	Not reported
Status:	Not reported

E51
SSE
1/4-1/2
0.256 mi.
1351 ft.

UNOCAL 7003
5789 MOWRY AVE
NEWARK, CA 94560
Site 1 of 4 in cluster E

LUST **1000167424**
SWEEPS UST **N/A**
HIST UST
HIST CORTESE

Relative:
Higher

Actual:
32 ft.

LUST REG 2:

Region:	2
Facility Id:	01-1608
Facility Status:	Pollution Characterization
Case Number:	0279
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	8/22/1989
Pollution Characterization Began:	1/4/1990
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

SWEEPS UST:

Name:	UNOCAL SERVICE STATION #7003
Address:	5789 MOWRY AVE
City:	NEWARK
Status:	Active
Comp Number:	57069
Number:	1
Board Of Equalization:	44-000051
Referral Date:	06-04-90
Action Date:	06-04-90
Created Date:	02-29-88
Owner Tank Id:	7003-1-01
SWRCB Tank Id:	01-008-057069-000001
Tank Status:	A
Capacity:	12000
Active Date:	06-04-90

UNOCAL 7003 (Continued) **1000167424**

Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 2

Name: UNOCAL SERVICE STATION #7003
Address: 5789 MOWRY AVE
City: NEWARK
Status: Active
Comp Number: 57069
Number: 1
Board Of Equalization: 44-000051
Referral Date: 06-04-90
Action Date: 06-04-90
Created Date: 02-29-88
Owner Tank Id: 7003-2-01
SWRCB Tank Id: 01-008-057069-000002
Tank Status: A
Capacity: 12000
Active Date: 06-04-90
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: UNOCAL SERVICE STATION #7003
Address: 5789 MOWRY AVE
City: NEWARK
Status: Active
Comp Number: 57069
Number: 1
Board Of Equalization: 44-000051
Referral Date: 06-04-90
Action Date: 06-04-90
Created Date: 02-29-88
Owner Tank Id: 7003-1-01
SWRCB Tank Id: 01-008-057069-000001
Tank Status: A
Capacity: 12000
Active Date: 06-04-90
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 2

Name: UNOCAL SERVICE STATION #7003
Address: 5789 MOWRY AVE
City: NEWARK
Status: Active
Comp Number: 57069
Number: 1
Board Of Equalization: 44-000051
Referral Date: 06-04-90
Action Date: 06-04-90
Created Date: 02-29-88
Owner Tank Id: 7003-2-01
SWRCB Tank Id: 01-008-057069-000002

UNOCAL 7003 (Continued) **1000167424**

Tank Status: A
Capacity: 12000
Active Date: 06-04-90
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

HIST UST:
Name: UNION OIL SS#7003
Address: 5789 MOWRY AVE
City,State,Zip: NEWARK, CA 94560
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000057069
Facility Type: Gas Station
Other Type: Not reported
Contact Name: WILFRED W.F. TOY
Telephone: 4157933900
Owner Name: UNION OIL CO.
Owner Address: 1 CALIFORNIA ST. SUITE 2700
Owner City,St,Zip: SAN FRANCISCO, CA 94111
Total Tanks: 0003

Tank Num: 001
Container Num: 7003-1-1
Year Installed: Not reported
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 002
Container Num: 7003-1-2
Year Installed: Not reported
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 003
Container Num: 7003-2-1
Year Installed: Not reported
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

HIST CORTESE:
edr_fname: UNOCAL
edr_fadd1: 5789 MOWRY
City,State,Zip: NEWARK, CA

UNOCAL 7003 (Continued) **1000167424**

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1608

E52 **NEWARK FIRESTONE** **LUST** **S101308526**
SSE **5795 MOWRY AVE** **SWEEPS UST** **N/A**
1/4-1/2 **NEWARK, CA 94560** **HIST CORTESE**
0.259 mi. **CERS**
1365 ft. **Site 2 of 4 in cluster E** **HWTS**

Relative:
Higher

Actual:
32 ft.

LUST:
Name: FIRESTONE STORE #74
Address: 5795 MOWRY AVE
City,State,Zip: NEWARK, CA 94560
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100496
Global Id: T0600100496
Latitude: 37.5271653
Longitude: -122.0067207
Status: Completed - Case Closed
Status Date: 03/03/1999
Case Worker: UUU
RB Case Number: 01-0543
Local Agency: Not reported
File Location: Not reported
Local Case Number: 0343
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0600100496
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600100496
Action Type: ENFORCEMENT
Date: 03/03/1999
Action: Closure/No Further Action Letter

Global Id: T0600100496
Action Type: Other
Date: 02/19/1993
Action: Leak Discovery

Global Id: T0600100496
Action Type: RESPONSE
Date: 06/27/1996
Action: Other Report / Document

NEWARK FIRESTONE (Continued) **S101308526**

Global Id: T0600100496
Action Type: ENFORCEMENT
Date: 03/03/1999
Action: Closure Summary

Global Id: T0600100496
Action Type: ENFORCEMENT
Date: 11/23/1993
Action: Other Report

Global Id: T0600100496
Action Type: Other
Date: 02/19/1993
Action: Leak Reported

Global Id: T0600100496
Action Type: Other
Date: 02/19/1993
Action: Leak Stopped

Global Id: T0600100496
Action Type: RESPONSE
Date: 03/29/1993
Action: Unauthorized Release Form

LUST:
Global Id: T0600100496
Status: Open - Case Begin Date
Status Date: 02/19/1993

Global Id: T0600100496
Status: Completed - Case Closed
Status Date: 03/03/1999

SWEEPS UST:
Name: NEWARK FIRESTONE
Address: 5795 MOWRY AVE
City: NEWARK
Status: Not reported
Comp Number: 87654
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-008-087654-000001
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: WASTE OIL
Number Of Tanks: 1

NEWARK FIRESTONE (Continued) **S101308526**

HIST CORTESE:
- edr_fname: FIRESTONE #74
- edr_fadd1: 5795 MOWRY
- City,State,Zip: NEWARK, CA 94560
- Region: CORTESE
- Facility County Code: 1
- Reg By: LTNKA
- Reg Id: 01-0543

CERS:
- Name: FIRESTONE STORE #74
- Address: 5795 MOWRY AVE
- City,State,Zip: NEWARK, CA 94560
- Site ID: 244765
- CERS ID: T0600100496
- CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
- Affiliation Type Desc: Regional Board Caseworker
- Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
- Entity Title: Not reported
- Affiliation Address: 1515 CLAY ST SUITE 1400
- Affiliation City: OAKLAND
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: ,

HWTS:
- Name: NEWARK FIRESTONE
- Address: 5795 MOWRY AVE
- Address 2: Not reported
- City,State,Zip: NEWARK, CA 945600000
- EPA ID: CAL000058391
- Inactive Date: 06/30/1999
- Create Date: 07/21/1994
- Last Act Date: 09/10/1999
- Mailing Name: Not reported
- Mailing Address: 24031 EL TORO RD SUITE 250
- Mailing Address 2: Not reported
- Mailing City,State,Zip: LAGUNA HILLS, CA 926534140
- Owner Name: NEWARK FIRESTONE
- Owner Address: 5795 MOWRY AVE
- Owner Address 2: Not reported
- Owner City,State,Zip: NEWARK, CA 945600000
- Contact Name: --
- Contact Address: INACTIVE PER VQ99 - BMI
- Contact Address 2: Not reported
- City,State,Zip: --, 99 --

E53 **FIRESTONE STORE #74** **Cortese** **S125984377**
SSE **5795 MOWRY AVE** **N/A**
1/4-1/2 **NEWARK, CA 94560**
0.259 mi.
1365 ft. **Site 3 of 4 in cluster E**

Relative: **Higher**
Actual: **32 ft.**

CORTESE:

Name:	FIRESTONE STORE #74
Address:	5795 MOWRY AVE
City,State,Zip:	NEWARK, CA 94560
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0600100496
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

E54 **UNOCAL 7003** **LUST** **S113133988**
SSE **5799 MOWRY AVE** **Cortese** **N/A**
1/4-1/2 **NEWARK, CA 94560** **HAZNET**
0.260 mi. **CERS**
1372 ft. **Site 4 of 4 in cluster E** **HWTS**

Relative: **Higher**
Actual: **32 ft.**

LUST:

Name:	UNOCAL 7003
Address:	5799 MOWRY AVE
City,State,Zip:	NEWARK, CA 94560
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101483
Global Id:	T0600101483
Latitude:	37.5274609
Longitude:	-122.0058262
Status:	Open - Eligible for Closure
Status Date:	03/12/2019
Case Worker:	THC
RB Case Number:	01-1608
Local Agency:	ALAMEDA COUNTY WATER DISTRICT
File Location:	Not reported
Local Case Number:	TT0279
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Benzene, Ethylbenzene, MTBE / TBA / Other Fuel Oxygenates, Total Petroleum Hydrocarbons (TPH)
Site History:	The site is located in Section 5, Township 5 South, and Range 1 West on the northeast corner of the intersection of Mowry Avenue and

UNOCAL 7003 (Continued) **S113133988**

Alpenrose Court in Newark, Alameda, California.The site is currently an active 76 Service Station and Firestone Automotive service facility. Station facilities include the service station building, two 12,000 gallon underground storage tanks (USTs) in the east half of the site, three fuel dispenser islands, a Firestone office, and a Firestone garage with service bays.Properties in the site vicinity include parking for commercial properties and Swiss Park, a recreational clubhouse and playground area. It appears that a release occurred at some undetermined time from the former site USTs removed in 1989.The depth of the UST excavation pit compared with ground water depths suggests that the USTs were set at least partially below the water table.Steel tanks which are continuously exposed to groundwater, without protection, are highly susceptible to corrosion which could, over time, breach the walls of the tank. Once the discharged hydrocarbons entered the groundwater, they were dissolved and began migrating with the shallow groundwater. (03/31/2011 Pilot Study Work plan)

LUST:

Global Id:	T0600101483
Contact Type:	Local Agency Caseworker
Contact Name:	EILEEN CHEN
Organization Name:	ALAMEDA COUNTY WATER DISTRICT
Address:	43885 SOUTH GRIMMER BLVD.
City:	FREMONT
Email:	eileen.chen@acwd.com
Phone Number:	Not reported

Global Id:	T0600101483
Contact Type:	Regional Board Caseworker
Contact Name:	TORREN CAMPBELL
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 Clay Street Suite 1400
City:	OAKLAND
Email:	torren.campbell@waterboards.ca.gov
Phone Number:	5106222470

LUST:

Global Id:	T0600101483
Action Type:	ENFORCEMENT
Date:	08/08/2012
Action:	Technical Correspondence / Assistance / Other

Global Id:	T0600101483
Action Type:	ENFORCEMENT
Date:	07/29/2019
Action:	Notification - Public Notice of Case Closure

Global Id:	T0600101483
Action Type:	ENFORCEMENT
Date:	10/14/2019
Action:	Technical Correspondence / Assistance / Other

Global Id:	T0600101483
Action Type:	RESPONSE
Date:	10/29/2013
Action:	Correspondence

UNOCAL 7003 (Continued) **S113133988**

Global Id: T0600101483
Action Type: RESPONSE
Date: 09/24/2013
Action: Sensitive Receptor Survey Report

Global Id: T0600101483
Action Type: RESPONSE
Date: 09/08/1999
Action: Monitoring Report - Semi-Annually

Global Id: T0600101483
Action Type: ENFORCEMENT
Date: 03/22/2004
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101483
Action Type: ENFORCEMENT
Date: 08/30/2007
Action: Meeting

Global Id: T0600101483
Action Type: ENFORCEMENT
Date: 08/14/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101483
Action Type: ENFORCEMENT
Date: 08/06/2012
Action: Petition Submitted for Review

Global Id: T0600101483
Action Type: ENFORCEMENT
Date: 06/22/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101483
Action Type: ENFORCEMENT
Date: 04/16/2015
Action: Notification - Public Notice of ROD/RAP/CAP

Global Id: T0600101483
Action Type: ENFORCEMENT
Date: 11/25/2013
Action: Petition Dismissed by Executive Director

Global Id: T0600101483
Action Type: ENFORCEMENT
Date: 12/18/2019
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101483
Action Type: Other
Date: 09/08/1989
Action: Leak Discovery

Global Id: T0600101483
Action Type: RESPONSE

UNOCAL 7003 (Continued) **S113133988**

Date: 08/06/2012
Action: Request for Closure

Global Id: T0600101483
Action Type: RESPONSE
Date: 08/06/2012
Action: Request for Closure

Global Id: T0600101483
Action Type: RESPONSE
Date: 09/11/1989
Action: Other Report / Document

Global Id: T0600101483
Action Type: RESPONSE
Date: 09/11/1989
Action: Other Workplan

Global Id: T0600101483
Action Type: RESPONSE
Date: 09/02/1992
Action: Other Report / Document

Global Id: T0600101483
Action Type: RESPONSE
Date: 09/26/1989
Action: Other Report / Document

Global Id: T0600101483
Action Type: RESPONSE
Date: 01/02/2014
Action: Site Investigation Workplan - Regulator Responded

Global Id: T0600101483
Action Type: RESPONSE
Date: 03/07/2014
Action: Site Investigation Workplan - Regulator Responded

Global Id: T0600101483
Action Type: RESPONSE
Date: 07/21/2015
Action: Other Workplan - Regulator Responded

Global Id: T0600101483
Action Type: RESPONSE
Date: 08/30/2018
Action: Request for Closure - Regulator Responded

Global Id: T0600101483
Action Type: RESPONSE
Date: 10/25/2017
Action: Request for Closure - Regulator Responded

Global Id: T0600101483
Action Type: REMEDIATION
Date: 08/01/1989
Action: Excavation

UNOCAL 7003 (Continued) **S113133988**

Global Id: T0600101483
Action Type: REMEDIATION
Date: 03/26/2001
Action: Pump & Treat (P&T) Groundwater

Global Id: T0600101483
Action Type: ENFORCEMENT
Date: 12/01/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101483
Action Type: ENFORCEMENT
Date: 06/25/2014
Action: File review

Global Id: T0600101483
Action Type: RESPONSE
Date: 03/14/1994
Action: Monitoring Report - Quarterly

Global Id: T0600101483
Action Type: RESPONSE
Date: 02/09/1993
Action: Monitoring Report - Quarterly

Global Id: T0600101483
Action Type: RESPONSE
Date: 09/21/1991
Action: Other Report / Document

Global Id: T0600101483
Action Type: RESPONSE
Date: 01/25/2001
Action: Monitoring Report - Quarterly

Global Id: T0600101483
Action Type: RESPONSE
Date: 12/11/1990
Action: Other Report / Document

Global Id: T0600101483
Action Type: RESPONSE
Date: 03/23/1990
Action: Other Report / Document

Global Id: T0600101483
Action Type: RESPONSE
Date: 03/09/1992
Action: Other Workplan

Global Id: T0600101483
Action Type: RESPONSE
Date: 08/16/1989
Action: Unauthorized Release Form

Global Id: T0600101483
Action Type: RESPONSE

UNOCAL 7003 (Continued) **S113133988**

Date: 10/02/1990
Action: Other Workplan

Global Id: T0600101483
Action Type: RESPONSE
Date: 05/03/1991
Action: Monitoring Report - Quarterly

Global Id: T0600101483
Action Type: RESPONSE
Date: 02/25/1992
Action: Monitoring Report - Quarterly

Global Id: T0600101483
Action Type: RESPONSE
Date: 09/22/2021
Action: Correspondence

Global Id: T0600101483
Action Type: ENFORCEMENT
Date: 06/07/1990
Action: Other Report

Global Id: T0600101483
Action Type: ENFORCEMENT
Date: 10/15/2020
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101483
Action Type: Other
Date: 09/08/1989
Action: Leak Reported

Global Id: T0600101483
Action Type: RESPONSE
Date: 02/20/1990
Action: Preliminary Site Assessment Report

Global Id: T0600101483
Action Type: RESPONSE
Date: 01/30/2001
Action: Monitoring Report - Quarterly

Global Id: T0600101483
Action Type: RESPONSE
Date: 08/31/2001
Action: Monitoring Report - Quarterly

Global Id: T0600101483
Action Type: RESPONSE
Date: 05/15/1994
Action: Monitoring Report - Quarterly

Global Id: T0600101483
Action Type: RESPONSE
Date: 10/16/1989
Action: Other Report / Document

UNOCAL 7003 (Continued) **S113133988**

Global Id: T0600101483
Action Type: ENFORCEMENT
Date: 06/15/1993
Action: Other Report

Global Id: T0600101483
Action Type: ENFORCEMENT
Date: 08/13/1993
Action: Deadline Extension

Global Id: T0600101483
Action Type: Other
Date: 09/08/1989
Action: Leak Stopped

Global Id: T0600101483
Action Type: ENFORCEMENT
Date: 07/31/2009
Action: Technical Correspondence / Assistance / Other

LUST:
Global Id: T0600101483
Status: Open - Case Begin Date
Status Date: 08/22/1989

Global Id: T0600101483
Status: Open - Site Assessment
Status Date: 08/22/1989

Global Id: T0600101483
Status: Open - Site Assessment
Status Date: 01/04/1990

Global Id: T0600101483
Status: Open - Verification Monitoring
Status Date: 10/02/2017

Global Id: T0600101483
Status: Open - Eligible for Closure
Status Date: 03/12/2019

CORTESE:
Name: UNOCAL 7003
Address: 5799 MOWRY AVE
City,State,Zip: NEWARK, CA 94560
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600101483
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: OPEN - ELIGIBLE FOR CLOSURE
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported

UNOCAL 7003 (Continued) **S113133988**

Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HAZNET:

Name:	GAWFCO ENTERPRISES INC DBA NEWARK UNION 76
Address:	5799 MOWRY AVE
Address 2:	Not reported
City,State,Zip:	NEWARK, CA 945605002
Contact:	GAWFCO ENTERPRISES INC
Telephone:	9259790560
Mailing Name:	Not reported
Mailing Address:	587 YGNACIO VALLEY RD
Year:	2007
Gepaid:	CAL000286532
TSD EPA ID:	CAD097030993
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05
Year:	2006
Gepaid:	CAL000286532
TSD EPA ID:	CAD982444481
CA Waste Code:	352 - Other organic solids
Disposal Method:	R01 - Recycler
Tons:	0.05

Additional Info:

Year:	2007
Gen EPA ID:	CAL000286532
Shipment Date:	20070520
Creation Date:	10/23/2007 18:30:22
Receipt Date:	20070612
Manifest ID:	002955141JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported

UNOCAL 7003 (Continued) **S113133988**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAL000286532
Shipment Date:	20060116
Creation Date:	5/6/2006 18:30:32
Receipt Date:	20060120
Manifest ID:	24505799
Trans EPA ID:	CAR000129304
Trans Name:	FILTER RECYCLING SVS INC-NO
Trans 2 EPA ID:	CAD982444481
Trans 2 Name:	FILTER RECYCLING SERVICES INC
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	UNOCAL 7003
Address:	5799 MOWRY AVE
City,State,Zip:	NEWARK, CA 94560
Site ID:	233036
CERS ID:	T0600101483
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	EILEEN CHEN - ALAMEDA COUNTY WATER DISTRICT
Entity Title:	Not reported
Affiliation Address:	43885 SOUTH GRIMMER BLVD.
Affiliation City:	FREMONT
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

UNOCAL 7003 (Continued) **S113133988**

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	SIMERPREET MATHARU - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 clay Street, Suite 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	5106222339,

HWTS:

Name:	GAWFCO ENTERPRISES INC DBA NEWARK UNION 76
Address:	5799 MOWRY AVE
Address 2:	Not reported
City,State,Zip:	NEWARK, CA 945605002
EPA ID:	CAL000286532
Inactive Date:	06/30/2020
Create Date:	09/17/2004
Last Act Date:	07/29/2020
Mailing Name:	MOHAMMAD N. AHMADI
Mailing Address:	3669 MOUNT DIABLO BLVD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LAFAYETTE, CA 94549
Owner Name:	MOHAMMED N. AHMADI
Owner Address:	3669 MOUNT DIABLO BLVD
Owner Address 2:	Not reported
Owner City,State,Zip:	LAFAYETTE, CA 94549
Contact Name:	MOHAMMAD N AHMADI
Contact Address:	3669 MOUNT DIABLO BLVD
Contact Address 2:	Not reported
City,State,Zip:	LAFAYETTE, CA 94549

NAICS:

EPA ID:	CAL000286532
Create Date:	2004-09-17 13:24:50.450
NAICS Code:	44711
NAICS Description:	Gasoline Stations with Convenience Stores
Issued EPA ID Date:	2004-09-17 13:24:50.40000
Inactive Date:	2020-06-30 00:00:00
Facility Name:	GAWFCO ENTERPRISES INC DBA NEWARK UNION 76
Facility Address:	5799 MOWRY AVE
Facility Address 2:	Not reported
Facility City:	NEWARK
Facility County:	Not reported
Facility State:	CA
Facility Zip:	945605002

55
South
1/4-1/2
0.278 mi.
1470 ft.

ALAMEDA COUNTY FLOOD CONTROL
MOWRY AVE
NEWARK, CA 94560

SWF/LF **S123300664**
CERS **N/A**

Relative:
Higher

Actual:
31 ft.

SWF/LF (SWIS):

Name:	ALAMEDA COUNTY FLOOD CONTROL
Address:	MOWRY AVE
City,State,Zip:	NEWARK, CA 94560
Region:	STATE
Facility ID:	01-CR-0052
SWIS Number:	01-CR-0052
Point of Contact:	Sabra Ambrose
Is Archived:	No
Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Closed
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
ARB District:	Bay Area
SWRCB Region:	San Francisco Bay
Local Government:	Newark
Reporting Agency Legal Name:	County of Alameda
Reporting Agency Department:	Department of Environmental Health
Enforcing Agency Legal Name:	County of Alameda
Enforcing Agency Department:	Department of Environmental Health
Regulation Status:	Unpermitted

Activity:

SWIS Number:	01-CR-0052
Site Name:	Alameda County Flood Control
Activity:	Solid Waste Disposal Site
Activity Is Archived:	No
Category:	Disposal
Activity Classification:	Solid Waste Disposal Site
WDR Number:	Not reported
WDR Landfill Class:	Not reported
Cease Operation:	Not reported
Cease Operation Type:	Not reported
Inspection Frequency:	Quarterly
Throughput:	Not reported
Throughput Units:	Not reported
Remaining Capacity:	Not reported
Remaining Capacity Date:	Not reported
Capacity:	Not reported
Capacity Units:	Not reported
Total Acreage:	Not reported
Disposal Acreage:	Not reported
Permitted Elevation:	Not reported
Permitted Elevation Type:	Not reported
Permitted Depth:	Not reported
Permitted Depth Type:	Not reported
Point of Contact:	Sabra Ambrose
Site Operational Status:	Closed
Site Regulatory Status:	Unpermitted
Site Is Archived:	No

ALAMEDA COUNTY FLOOD CONTROL (Continued) **S123300664**

Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
County:	Alameda
ARB District:	Bay Area
SWRCB Region:	San Francisco Bay
Local Government:	Newark
Street Address:	Mowry Ave
City:	Newark
State:	CA
ZIP Code:	94560
Reporting Agency Legal Name:	County of Alameda
Reporting Agency Department:	Department of Environmental Health
Enforcing Agency Legal Name:	County of Alameda
Enforcing Agency Department:	Department of Environmental Health

Operator:

SWIS Number:	01-CR-0052
Site Name:	Alameda County Flood Control
Site Operational Status:	Closed
Site Type:	Disposal Only
Site Regulatory Status:	Unpermitted
Latitude:	37.52703
Longitude:	-122.00666
Is Archived:	No
Operator:	Alameda County Flood Control
Started On:	Not reported
Contact Name:	Hank Ackerman
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(510) 670-5553
Street Address:	399 Elmhurst Street
Operator City:	Hayward
Operator State:	CA
Operator Zip:	94545

Owner:

SWIS Number:	01-CR-0052
Owner:	Alameda County Flood Control
Owner Address:	PO Box 344
Owner City:	Newark
Owner State:	CA
Owner Zip:	94545
Site Name:	Alameda County Flood Control
Site Operational Status:	Closed
Site Type:	Disposal Only
Site Regulatory Status:	Unpermitted
Latitude:	37.52703
Longitude:	-122.00666
Is Archived:	No
Started On:	Not reported
Contact Name:	Hank Ackerman

ALAMEDA COUNTY FLOOD CONTROL (Continued) **S123300664**

Contact Title: Not reported
Contact Email: Not reported
Contact Phone: (510) 640-5553

CERS:
Name: ALAMEDA COUNTY FLOOD CONTROL
Address: MOWRY AVE
City,State,Zip: NEWARK, CA
Site ID: 518489
CERS ID: 01-CR-0052
CERS Description: Solid Waste and Recycle Sites

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: Alameda County Flood Control
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Newark
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94545
Affiliation Phone: 5106405553,

Affiliation Type Desc: Legal Operator
Entity Name: Alameda County Flood Control
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Hayward
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94545
Affiliation Phone: 5106705553,

F56 **QUIK STOP #20** **LUST** **U003941246**
ENE **38995 FARWELL DR** **Cortese** **N/A**
1/4-1/2 **FREMONT, CA 94536** **EMI**
0.290 mi.
1529 ft. **Site 1 of 4 in cluster F**

Relative:
Higher

Actual:
37 ft.

LUST REG 2:
Region: 2
Facility Id: 01-1215
Facility Status: Preliminary site assessment underway
Case Number: 0092
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 7/2/1986
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 6/28/1988
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

QUIK STOP #20 (Continued) **U003941246**

CORTESE:

Name:	QUIK STOP #20
Address:	38995 FARWELL DR
City,State,Zip:	FREMONT, CA 94536
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0600101117
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

EMI:

Name:	QUIK STOP #20
Address:	38995 FARWELL DR
City,State,Zip:	FREMONT, CA 94536
Year:	2017
County Code:	1
Air Basin:	SF
Facility ID:	100163
Air District Name:	BA
SIC Code:	5411
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.696357
Reactive Organic Gases Tons/Yr:	0.696357
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	QUIK STOP #20
Address:	38995 FARWELL DR
City,State,Zip:	FREMONT, CA 94536
Year:	2018
County Code:	1
Air Basin:	SF
Facility ID:	100163
Air District Name:	BA
SIC Code:	5541

QUIK STOP #20 (Continued) **U003941246**

Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.696357
Reactive Organic Gases Tons/Yr:	0.696357
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	QUIK STOP #20
Address:	38995 FARWELL DR
City,State,Zip:	FREMONT, CA 94536
Year:	2019
County Code:	1
Air Basin:	SF
Facility ID:	100163
Air District Name:	BA
SIC Code:	5541
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.696357
Reactive Organic Gases Tons/Yr:	0.696357
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

F57 **QUIK STOP MARKET #20** **LUST** **S101623626**
ENE **38995 FARWELL DR** **CERS HAZ WASTE** **N/A**
1/4-1/2 **FREMONT, CA 94536** **SWEEPS UST**
0.290 mi. **CA FID UST**
1529 ft. **Site 2 of 4 in cluster F** **CERS TANKS**
HIST CORTESE
Relative: Higher **CERS**

Actual: 37 ft.

LUST:

Name:	QUIK STOP #20
Address:	38995 FARWELL DR
City,State,Zip:	FREMONT, CA 94536
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101117
Global Id:	T0600101117
Latitude:	37.5334656
Longitude:	-122.0017905
Status:	Completed - Case Closed
Status Date:	06/26/2019
Case Worker:	REL
RB Case Number:	01-2334
Local Agency:	ALAMEDA COUNTY WATER DISTRICT
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	TT0092
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline

QUIK STOP MARKET #20 (Continued) **S101623626**

Site History: Site investigation is being conducted together with adjacent LUFT site (Unocal 4748, 5301 Mowry Avenue, Fremont).

LUST:
Global Id: T0600101117
Contact Type: Local Agency Caseworker
Contact Name: EILEEN CHEN
Organization Name: ALAMEDA COUNTY WATER DISTRICT
Address: 43885 SOUTH GRIMMER BLVD.
City: FREMONT
Email: eileen.chen@acwd.com
Phone Number: Not reported

Global Id: T0600101117
Contact Type: Regional Board Caseworker
Contact Name: RALPH LAMBERT
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST. SUITE 1500
City: OAKLAND
Email: ralambert@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 03/29/2010
Action: File review

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 08/13/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 10/02/2018
Action: Notification - Public Notice of Case Closure

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 01/09/2019
Action: Staff Letter

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 07/25/2018
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0600101117
Action Type: RESPONSE
Date: 03/29/2019
Action: Correspondence

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 09/22/1994
Action: Notice to Comply

QUIK STOP MARKET #20 (Continued) **S101623626**

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 08/19/2004
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 12/18/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 12/15/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 08/04/1994
Action: Other Report

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 06/26/2019
Action: Closure/No Further Action Letter

Global Id: T0600101117
Action Type: Other
Date: 07/07/1988
Action: Leak Discovery

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 06/27/1988
Action: * Historical Enforcement

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 06/25/2014
Action: File review

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 06/03/1988
Action: Meeting

Global Id: T0600101117
Action Type: RESPONSE
Date: 05/29/1998
Action: Other Report / Document

Global Id: T0600101117
Action Type: RESPONSE
Date: 07/12/1995
Action: Tank Removal Report / UST Sampling Report

Global Id: T0600101117
Action Type: ENFORCEMENT

QUIK STOP MARKET #20 (Continued) **S101623626**

Date: 06/30/2016
Action: File review

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 11/27/1995
Action: Other Report

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 06/27/1996
Action: Letter - Notice

Global Id: T0600101117
Action Type: Other
Date: 07/07/1988
Action: Leak Reported

Global Id: T0600101117
Action Type: RESPONSE
Date: 03/20/2019
Action: Correspondence

Global Id: T0600101117
Action Type: RESPONSE
Date: 06/10/2019
Action: Well Destruction Report

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 12/23/1993
Action: Other Report

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 10/25/1994
Action: Other Report

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 10/11/1993
Action: Other Report

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 05/28/1996
Action: Other Report

Global Id: T0600101117
Action Type: ENFORCEMENT
Date: 04/09/2019
Action: 13267 Requirement

Global Id: T0600101117
Action Type: Other
Date: 07/07/1988
Action: Leak Stopped

QUIK STOP MARKET #20 (Continued) **S101623626**

Global Id: T0600101117
Action Type: RESPONSE
Date: 07/17/2018
Action: Correspondence

Global Id: T0600101117
Action Type: RESPONSE
Date: 05/01/1993
Action: Correspondence

LUST:
Global Id: T0600101117
Status: Open - Case Begin Date
Status Date: 07/02/1986

Global Id: T0600101117
Status: Open - Site Assessment
Status Date: 07/02/1986

Global Id: T0600101117
Status: Open - Site Assessment
Status Date: 06/28/1988

Global Id: T0600101117
Status: Open - Eligible for Closure
Status Date: 07/18/2018

Global Id: T0600101117
Status: Open - Eligible for Closure
Status Date: 03/28/2019

Global Id: T0600101117
Status: Completed - Case Closed
Status Date: 06/26/2019

CERS HAZ WASTE:
Name: QUIK STOP #20
Address: 38995 FARWELL DR
City,State,Zip: FREMONT, CA 94536
Site ID: 59559
CERS ID: 10168915
CERS Description: Hazardous Waste Generator

SWEEPS UST:
Name: QUIK STOP MARKET #20
Address: 38995 FARWELL DR
City: FREMONT
Status: Active
Comp Number: 6271
Number: 1
Board Of Equalization: 44-018763
Referral Date: 07-02-93
Action Date: 05-05-94
Created Date: 02-29-88
Owner Tank Id: UNLEADED

QUIK STOP MARKET #20 (Continued) **S101623626**

SWRCB Tank Id: 01-009-006271-000001
Tank Status: A
Capacity: 10000
Active Date: 07-02-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 2

Name: QUIK STOP MARKET #20
Address: 38995 FARWELL DR
City: FREMONT
Status: Active
Comp Number: 6271
Number: 1
Board Of Equalization: 44-018763
Referral Date: 07-02-93
Action Date: 05-05-94
Created Date: 02-29-88
Owner Tank Id: PREMIUM-GAS
SWRCB Tank Id: 01-009-006271-000002
Tank Status: A
Capacity: 10000
Active Date: 07-02-93
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 01001332
Regulated By: UTNKA
Regulated ID: 00006271
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 5107935361
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: FREMONT 94536
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CERS TANKS:
Name: QUIK STOP #20
Address: 38995 FARWELL DR
City,State,Zip: FREMONT, CA 94536
Site ID: 59559
CERS ID: 10168915
CERS Description: Underground Storage Tank

QUIK STOP MARKET #20 (Continued) **S101623626**

HIST CORTESE:

edr_fname:	QUIK STOP
edr_fadd1:	38995 FARWELL
City,State,Zip:	FREMONT, CA
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1215

CERS:

Name:	QUIK STOP #20
Address:	38995 FARWELL DR
City,State,Zip:	FREMONT, CA 94536
Site ID:	59559
CERS ID:	10168915
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	08-29-2019
Citation:	40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description:	Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies.
Violation Notes:	Returned to compliance on 12/06/2019. Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies. Last records on site are dated 2017. Retrain and provide records.
Violation Division:	Fremont City Fire Department
Violation Program:	HW
Violation Source:	CERS,

Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	09-06-2013
Citation:	HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description:	Failure to operate the UST system to prevent spills and/or overfills.
Violation Notes:	Returned to compliance on 09/13/2013.
Violation Division:	Fremont City Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	09-15-2012
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 03/26/2013. monitor cert late - failed to test spill buckets
Violation Division:	Fremont City Fire Department
Violation Program:	UST
Violation Source:	CERS,

QUIK STOP MARKET #20 (Continued) **S101623626**

Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	08-21-2018
Citation:	HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3),25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Notes:	Returned to compliance on 10/16/2018. Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Division:	Fremont City Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	08-24-2021
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 08/24/2021. Leak detection was slow; shutdown adjusted to meet time limits.
Violation Division:	Fremont City Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	08-29-2019
Citation:	HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description:	Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes:	Returned to compliance on 12/06/2019. Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. 55 gallon liquid drum is dated February 2019 and has surpassed 180 days. Schedule disposal and provide manifest. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Division:	Fremont City Fire Department

QUIK STOP MARKET #20 (Continued) **S101623626**

Violation Program:	HW
Violation Source:	CERS,
Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	08-29-2019
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 08/29/2019. Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected. Both product lines required adjustments during testing. Corrected on site.
Violation Division:	Fremont City Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	08-21-2018
Citation:	Un-Specified
Violation Description:	UST Program - Administration/Documentation - General Local Ordinance - Must include violation description and proper ordinance citation in the "comment" section.
Violation Notes:	Returned to compliance on 08/21/2018. UST Program - Administration/Documentation - General Local Ordinance - Must include violation description and proper ordinance citation in the comment section. Both the fill sumps are experiencing water intrusion and the 87 had 5 gallons and the 91 fill sump 30 gallons of water. Water removed at the time of inspection. Clean sump lid and install gaskets to prevent future water intrusion.
Violation Division:	Fremont City Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	08-29-2019
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 10/18/2019. Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: Hazardous Waste , name and address of the generator, physical and chemical characteristics of the Hazardous

QUIK STOP MARKET #20 (Continued) **S101623626**

Waste, and starting accumulation date. 55 gallon liquid waste drum is missing the physical state on the label. Add 'LIQUID' to the label.
Violation Division: Fremont City Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 59559
Site Name: Quik Stop #20
Violation Date: 09-15-2012
Citation: 23 CCR 16 2638 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638
Violation Description: Failure to test leak detection equipment as required every 12 months (VPH, sensor, LLD, ATG, etc.) and/or submit monitoring system certification to the CUPA within 30 days of completion of the test
Violation Notes: Returned to compliance on 09/26/2012. Monitor certification was due 9/15/12. Due to the fact cert was not complete by due date violation occured on 9/15
Violation Division: Fremont City Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 59559
Site Name: Quik Stop #20
Violation Date: 08-29-2019
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Monitoring Plan.
Violation Notes: Returned to compliance on 11/08/2019. Failure to have an approved UST Monitoring Plan. Failure to submit monitoring plan by 3/1/19 and correct by 6/38/19 after FFD direction. Revise and resubmit.
Violation Division: Fremont City Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 59559
Site Name: Quik Stop #20
Violation Date: 09-06-2013
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 10/31/2013.
Violation Division: Fremont City Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 59559
Site Name: Quik Stop #20
Violation Date: 08-29-2019
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 11/08/2019. Failure to submit and maintain complete and current Certification of Financial Responsibility or

QUIK STOP MARKET #20 (Continued) **S101623626**

other mechanism of financial assurance. Failure to submit a current Certification of Financial Responsibility. CFO letter and certification should be consistent. Correct and resubmit.

Violation Division: Fremont City Fire Department
Violation Program: UST
Violation Source: CERS,

Evaluation:

Eval General Type: Other/Unknown
Eval Date: 06-14-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Cold start for dispenser, 91 sump turbine and 87 LLD replaced and retested
Eval Division: Fremont City Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-24-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine Inspection for CUPA permit. All violations have been corrected.
Eval Division: Fremont City Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-29-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for routine inspection on this date. All violations have not been corrected.
Eval Division: Fremont City Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-31-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fremont City Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-01-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fremont City Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection

QUIK STOP MARKET #20 (Continued) **S101623626**

Eval Date:	09-01-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	accepted 7/22/15
Eval Division:	Fremont City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-06-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	09-17-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	LLD replaced and retested
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	04-09-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-29-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	NO VIOLATIONS OBSERVED
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	08-29-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-31-2016
Violations Found:	No
Eval Type:	Routine done by local agency

QUIK STOP MARKET #20 (Continued) **S101623626**

Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-04-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-06-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	CERS 3-18-13
Eval Division:	Fremont City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-10-2020
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	FFD on site to complete the annual UST inspection. The contractor provided pictures of all liquid sensors as requested. No violations issued.
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-26-2012
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification late
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	10-03-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Returned to site for RTC Inspection. All violations have not been corrected.
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	10-18-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency

QUIK STOP MARKET #20 (Continued) **S101623626**

Eval Notes:	All violations have not been corrected. Site manager texted local rep while on site to inform her of the open issues (FR and Monitoring Plan submittals).
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	11-20-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site for routine inspection on this date. All violations have not been corrected. Area manager, Josephine, will follow up with waste hauler to provide waste manifest and will train all employees on hazardous waste handling procedures.
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	02-12-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	LLD replace and retested
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Initial Inspection for CUPA Permit
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-29-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Initial Inspection. No violations issued.
Eval Division:	Fremont City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-29-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Initial Inspection. All violations have not been corrected.
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-04-2014

QUIK STOP MARKET #20 (Continued) **S101623626**

Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	10-03-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Returned to site for RTC inspection. All violations have not been corrected.
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	10-18-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	All violations have not been corrected. Liquid waste drum has been replaced with a new drum, however, site manager was unable to provide a copy of the waste manifest during the inspection. Instructed manager to obtain a copy from corporate and maintain on site.
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-16-2012
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-31-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	08-31-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The annual monitoring system certification was completed on this date by Walton Engineering, but an inspector was not present due to COVID-19. Pictures of all liquid sensors were requested in order to complete the annual inspection at a later date.
Eval Division:	Fremont City Fire Department
Eval Program:	UST

QUIK STOP MARKET #20 (Continued) **S101623626**

Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-01-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-04-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-06-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	91 spill bucket failed
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-16-2012
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	04-09-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	04-09-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Cold start monitor cert due to new controller series P831 install. Buckets & LLD not tested - annual monitor cert due September
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,

QUIK STOP MARKET #20 (Continued) **S101623626**

Eval General Type:	Other/Unknown
Eval Date:	08-29-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,

Coordinates:

Site ID:	59559
Facility Name:	Quik Stop #20
Env Int Type Code:	HWG
Program ID:	10168915
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	37.533720
Longitude:	-122.001640

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	EILEEN CHEN - ALAMEDA COUNTY WATER DISTRICT
Entity Title:	Not reported
Affiliation Address:	43885 SOUTH GRIMMER BLVD.
Affiliation City:	FREMONT
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Operator
Entity Name:	AMANJEET CHEEMA - STORE MANAGER
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 793-5361,

Affiliation Type Desc:	UST Tank Owner
Entity Name:	QUIK STOP MARKETS, INC.
Entity Title:	Not reported
Affiliation Address:	165 Flanders Road
Affiliation City:	Westborough
Affiliation State:	MA
Affiliation Country:	United States
Affiliation Zip:	01581
Affiliation Phone:	(508) 270-4444,

Affiliation Type Desc:	CUPA District
Entity Name:	Fremont City Fire Department
Entity Title:	Not reported
Affiliation Address:	P.O. Box 5006
Affiliation City:	Fremont
Affiliation State:	CA

QUIK STOP MARKET #20 (Continued) **S101623626**

Affiliation Country:	Not reported
Affiliation Zip:	94537-5006
Affiliation Phone:	(510) 494-4279,
Affiliation Type Desc:	Identification Signer
Entity Name:	Debra Lawyer
Entity Title:	Staff-Walton Engineering, Inc.
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Quik Stop Markets Inc
Entity Title:	Not reported
Affiliation Address:	165 Flanders Road
Affiliation City:	Westborough
Affiliation State:	MA
Affiliation Country:	United States
Affiliation Zip:	01581
Affiliation Phone:	(508) 270-4444,
Affiliation Type Desc:	Property Owner
Entity Name:	ROBERT PAIGE TRUST
Entity Title:	Not reported
Affiliation Address:	828 BRANNAN STREET
Affiliation City:	SAN FRANCISCO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94103
Affiliation Phone:	(415) 621-5266,
Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	RALPH LAMBERT - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST. SUITE 1500
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Roger Batra
Entity Title:	Director, Env. Affairs
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 445-2285,
Affiliation Type Desc:	Document Preparer
Entity Name:	Debra Lawyer
Entity Title:	Not reported

QUIK STOP MARKET #20 (Continued) **S101623626**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Marty Hilfinger
Entity Title:	Not reported
Affiliation Address:	165 Flanders Road
Affiliation City:	Westborough
Affiliation State:	MA
Affiliation Country:	Not reported
Affiliation Zip:	01581
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	38995 Farwell Dr
Affiliation City:	FREMONT
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94536
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	QUIK STOP MARKETS, INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	SIMERPREET MATHARU - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 clay Street, Suite 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	5106222339,
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	ROBERT PAIGE TRUST
Entity Title:	Not reported
Affiliation Address:	828 Brannon Street
Affiliation City:	San Francisco
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94103
Affiliation Phone:	(415) 621-5266,

QUIK STOP MARKET #20 (Continued) **S101623626**

Affiliation Type Desc:	UST Tank Operator
Entity Name:	QUIK STOP MARKETS, INC.
Entity Title:	Not reported
Affiliation Address:	165 Flanders Road
Affiliation City:	Westborough
Affiliation State:	MA
Affiliation Country:	United States
Affiliation Zip:	01581
Affiliation Phone:	(508) 270-4444,
Name:	QUIK STOP #20
Address:	38995 FARWELL DR
City,State,Zip:	FREMONT, CA 94536
Site ID:	59559
CERS ID:	T0600101117
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Violations:

Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	08-29-2019
Citation:	40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description:	Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies.
Violation Notes:	Returned to compliance on 12/06/2019. Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies. Last records on site are dated 2017. Retrain and provide records.
Violation Division:	Fremont City Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	09-06-2013
Citation:	HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description:	Failure to operate the UST system to prevent spills and/or overfills.
Violation Notes:	Returned to compliance on 09/13/2013.
Violation Division:	Fremont City Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	09-15-2012
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 03/26/2013. monitor cert late - failed to test spill buckets
Violation Division:	Fremont City Fire Department
Violation Program:	UST
Violation Source:	CERS,

QUIK STOP MARKET #20 (Continued) **S101623626**

Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	08-21-2018
Citation:	HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3),25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Notes:	Returned to compliance on 10/16/2018. Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Division:	Fremont City Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	08-24-2021
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 08/24/2021. Leak detection was slow; shutdown adjusted to meet time limits.
Violation Division:	Fremont City Fire Department
Violation Program:	UST
Violation Source:	CERS,

Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	08-29-2019
Citation:	HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description:	Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes:	Returned to compliance on 12/06/2019. Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. 55 gallon liquid drum is dated February 2019 and has surpassed 180 days. Schedule disposal and provide manifest. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Division:	Fremont City Fire Department

QUIK STOP MARKET #20 (Continued) **S101623626**

Violation Program:	HW
Violation Source:	CERS,
Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	08-29-2019
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 08/29/2019. Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected. Both product lines required adjustments during testing. Corrected on site.
Violation Division:	Fremont City Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	08-21-2018
Citation:	Un-Specified
Violation Description:	UST Program - Administration/Documentation - General Local Ordinance - Must include violation description and proper ordinance citation in the "comment" section.
Violation Notes:	Returned to compliance on 08/21/2018. UST Program - Administration/Documentation - General Local Ordinance - Must include violation description and proper ordinance citation in the comment section. Both the fill sumps are experiencing water intrusion and the 87 had 5 gallons and the 91 fill sump 30 gallons of water. Water removed at the time of inspection. Clean sump lid and install gaskets to prevent future water intrusion.
Violation Division:	Fremont City Fire Department
Violation Program:	UST
Violation Source:	CERS,
Site ID:	59559
Site Name:	Quik Stop #20
Violation Date:	08-29-2019
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 10/18/2019. Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: Hazardous Waste , name and address of the generator, physical and chemical characteristics of the Hazardous

QUIK STOP MARKET #20 (Continued) **S101623626**

Waste, and starting accumulation date. 55 gallon liquid waste drum is missing the physical state on the label. Add 'LIQUID' to the label.
Violation Division: Fremont City Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 59559
Site Name: Quik Stop #20
Violation Date: 09-15-2012
Citation: 23 CCR 16 2638 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638
Violation Description: Failure to test leak detection equipment as required every 12 months (VPH, sensor, LLD, ATG, etc.) and/or submit monitoring system certification to the CUPA within 30 days of completion of the test
Violation Notes: Returned to compliance on 09/26/2012. Monitor certification was due 9/15/12. Due to the fact cert was not complete by due date violation occured on 9/15
Violation Division: Fremont City Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 59559
Site Name: Quik Stop #20
Violation Date: 08-29-2019
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Monitoring Plan.
Violation Notes: Returned to compliance on 11/08/2019. Failure to have an approved UST Monitoring Plan. Failure to submit monitoring plan by 3/1/19 and correct by 6/38/19 after FFD direction. Revise and resubmit.
Violation Division: Fremont City Fire Department
Violation Program: UST
Violation Source: CERS,

Site ID: 59559
Site Name: Quik Stop #20
Violation Date: 09-06-2013
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 10/31/2013.
Violation Division: Fremont City Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 59559
Site Name: Quik Stop #20
Violation Date: 08-29-2019
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 11/08/2019. Failure to submit and maintain complete and current Certification of Financial Responsibility or

QUIK STOP MARKET #20 (Continued) **S101623626**

other mechanism of financial assurance. Failure to submit a current Certification of Financial Responsibility. CFO letter and certification should be consistent. Correct and resubmit.
Violation Division: Fremont City Fire Department
Violation Program: UST
Violation Source: CERS,

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 06-14-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Cold start for dispenser, 91 sump turbine and 87 LLD replaced and retested
Eval Division: Fremont City Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-24-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine Inspection for CUPA permit. All violations have been corrected.
Eval Division: Fremont City Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-29-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for routine inspection on this date. All violations have not been corrected.
Eval Division: Fremont City Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-31-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fremont City Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-01-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fremont City Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection

QUIK STOP MARKET #20 (Continued) **S101623626**

Eval Date: 09-01-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: accepted 7/22/15
Eval Division: Fremont City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-06-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fremont City Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-17-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: LLD replaced and retested
Eval Division: Fremont City Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 04-09-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Fremont City Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-29-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: NO VIOLATIONS OBSERVED
Eval Division: Fremont City Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 08-29-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Fremont City Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-31-2016
Violations Found: No
Eval Type: Routine done by local agency

QUIK STOP MARKET #20 (Continued) **S101623626**

Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-04-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-06-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	CERS 3-18-13
Eval Division:	Fremont City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-10-2020
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	FFD on site to complete the annual UST inspection. The contractor provided pictures of all liquid sensors as requested. No violations issued.
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-26-2012
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification late
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	10-03-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Returned to site for RTC Inspection. All violations have not been corrected.
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	10-18-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency

QUIK STOP MARKET #20 (Continued) **S101623626**

Eval Notes:	All violations have not been corrected. Site manager texted local rep while on site to inform her of the open issues (FR and Monitoring Plan submittals).
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	11-20-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site for routine inspection on this date. All violations have not been corrected. Area manager, Josephine, will follow up with waste hauler to provide waste manifest and will train all employees on hazardous waste handling procedures.
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	02-12-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	LLD replace and retested
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-21-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Initial Inspection for CUPA Permit
Eval Division:	Fremont City Fire Department
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-29-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Initial Inspection. No violations issued.
Eval Division:	Fremont City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-29-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Initial Inspection. All violations have not been corrected.
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-04-2014

QUIK STOP MARKET #20 (Continued) **S101623626**

Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	10-03-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Returned to site for RTC inspection. All violations have not been corrected.
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	10-18-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	All violations have not been corrected. Liquid waste drum has been replaced with a new drum, however, site manager was unable to provide a copy of the waste manifest during the inspection. Instructed manager to obtain a copy from corporate and maintain on site.
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-16-2012
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-31-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	08-31-2020
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The annual monitoring system certification was completed on this date by Walton Engineering, but an inspector was not present due to COVID-19. Pictures of all liquid sensors were requested in order to complete the annual inspection at a later date.
Eval Division:	Fremont City Fire Department
Eval Program:	UST

QUIK STOP MARKET #20 (Continued) **S101623626**

Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-01-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fremont City Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-04-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fremont City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-06-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: 91 spill bucket failed
Eval Division: Fremont City Fire Department
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-16-2012
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fremont City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 04-09-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Fremont City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 04-09-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Cold start monitor cert due to new controller series P831 install. Buckets & LLD not tested - annual monitor cert due September
Eval Division: Fremont City Fire Department
Eval Program: UST
Eval Source: CERS,

QUIK STOP MARKET #20 (Continued) **S101623626**

Eval General Type:	Other/Unknown
Eval Date:	08-29-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Fremont City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,

Coordinates:

Site ID:	59559
Facility Name:	Quik Stop #20
Env Int Type Code:	HWG
Program ID:	10168915
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	37.533720
Longitude:	-122.001640

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	EILEEN CHEN - ALAMEDA COUNTY WATER DISTRICT
Entity Title:	Not reported
Affiliation Address:	43885 SOUTH GRIMMER BLVD.
Affiliation City:	FREMONT
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Operator
Entity Name:	AMANJEET CHEEMA - STORE MANAGER
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 793-5361,

Affiliation Type Desc:	UST Tank Owner
Entity Name:	QUIK STOP MARKETS, INC.
Entity Title:	Not reported
Affiliation Address:	165 Flanders Road
Affiliation City:	Westborough
Affiliation State:	MA
Affiliation Country:	United States
Affiliation Zip:	01581
Affiliation Phone:	(508) 270-4444,

Affiliation Type Desc:	CUPA District
Entity Name:	Fremont City Fire Department
Entity Title:	Not reported
Affiliation Address:	P.O. Box 5006
Affiliation City:	Fremont
Affiliation State:	CA

QUIK STOP MARKET #20 (Continued) **S101623626**

Affiliation Country:	Not reported
Affiliation Zip:	94537-5006
Affiliation Phone:	(510) 494-4279,
Affiliation Type Desc:	Identification Signer
Entity Name:	Debra Lawyer
Entity Title:	Staff-Walton Engineering, Inc.
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Quik Stop Markets Inc
Entity Title:	Not reported
Affiliation Address:	165 Flanders Road
Affiliation City:	Westborough
Affiliation State:	MA
Affiliation Country:	United States
Affiliation Zip:	01581
Affiliation Phone:	(508) 270-4444,
Affiliation Type Desc:	Property Owner
Entity Name:	ROBERT PAIGE TRUST
Entity Title:	Not reported
Affiliation Address:	828 BRANNAN STREET
Affiliation City:	SAN FRANCISCO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94103
Affiliation Phone:	(415) 621-5266,
Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	RALPH LAMBERT - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST. SUITE 1500
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Roger Batra
Entity Title:	Director, Env. Affairs
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 445-2285,
Affiliation Type Desc:	Document Preparer
Entity Name:	Debra Lawyer
Entity Title:	Not reported

QUIK STOP MARKET #20 (Continued) **S101623626**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Marty Hilfinger
Entity Title:	Not reported
Affiliation Address:	165 Flanders Road
Affiliation City:	Westborough
Affiliation State:	MA
Affiliation Country:	Not reported
Affiliation Zip:	01581
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	38995 Farwell Dr
Affiliation City:	FREMONT
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94536
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	QUIK STOP MARKETS, INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	SIMERPREET MATHARU - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 clay Street, Suite 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	5106222339,
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	ROBERT PAIGE TRUST
Entity Title:	Not reported
Affiliation Address:	828 Brannon Street
Affiliation City:	San Francisco
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94103
Affiliation Phone:	(415) 621-5266,

QUIK STOP MARKET #20 (Continued) **S101623626**

Affiliation Type Desc:	UST Tank Operator
Entity Name:	QUIK STOP MARKETS, INC.
Entity Title:	Not reported
Affiliation Address:	165 Flanders Road
Affiliation City:	Westborough
Affiliation State:	MA
Affiliation Country:	United States
Affiliation Zip:	01581
Affiliation Phone:	(508) 270-4444,

F58 **UNOCAL 4748** **LUST S100226416**
ENE **5301 MOWRY AVE** **HIST CORTESE N/A**
1/4-1/2 **FREMONT, CA 94538**
0.302 mi.
1594 ft. **Site 3 of 4 in cluster F**

Relative: **Higher**
Actual: **37 ft.**

LUST REG 2:

Region:	2
Facility Id:	01-1607
Facility Status:	Pollution Characterization
Case Number:	0123
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	2/18/1987
Pollution Characterization Began:	9/30/1988
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

HIST CORTESE:

edr_fname:	UNOCAL
edr_fadd1:	5301 MOWRY
City,State,Zip:	FREMONT, CA
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1607

F59 **UNION OIL SS 4748** **LUST U001596871**
ENE **5301 MOWRY AVE** **HIST UST N/A**
1/4-1/2 **FREMONT, CA 94536** **Cortese**
0.302 mi. **CERS**
1594 ft. **Site 4 of 4 in cluster F**

Relative: **Higher**
Actual: **37 ft.**

LUST:

Name:	76 STATION #5650/4748
Address:	5301 MOWRY AVE
City,State,Zip:	FREMONT, CA 94538
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101482

UNION OIL SS 4748 (Continued) **U001596871**

Global Id:	T0600101482
Latitude:	37.5333508
Longitude:	-122.0015706
Status:	Open - Assessment & Interim Remedial Action
Status Date:	03/06/2019
Case Worker:	REL
RB Case Number:	01-1607
Local Agency:	ALAMEDA COUNTY WATER DISTRICT
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	TT0123
Potential Media Affect:	Well used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	The site is located on the western corner of the intersection of Mowry Avenue and Farwell Drive in Fremont, Alameda County, California.The site is an active 76 station consisting of two underground storage tanks (USTs) containing gasoline, three product dispenser islands under a single canopy, 17 groundwater monitoring wells (10 off‐site and 7 on‐site wells), one on‐site groundwater extraction well, a station building, and a soil vapor extraction (SVE) and air sparge (AS) remediation compound.The site is bounded by Farwell Drive to the north and northwest (beyond which is a commercial structure and single‐family residential structures), to the east by Mowry Avenue (beyond which is a Chevron service station), to the south by the Country Way restaurant, and to the west by a Quick Stop station (38995 Farwell Drive, ACWD Case No. 0092).According to the ACWD, ConocoPhillips is responsible for soil and groundwater assessment and cleanup at this station based on a legal agreement in 1993. (11/21/2011 Work Plan Addendum)

LUST:

Global Id:	T0600101482
Contact Type:	Local Agency Caseworker
Contact Name:	EILEEN CHEN
Organization Name:	ALAMEDA COUNTY WATER DISTRICT
Address:	43885 SOUTH GRIMMER BLVD.
City:	FREMONT
Email:	eileen.chen@acwd.com
Phone Number:	Not reported

Global Id:	T0600101482
Contact Type:	Regional Board Caseworker
Contact Name:	RALPH LAMBERT
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST. SUITE 1500
City:	OAKLAND
Email:	ralambert@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0600101482
Action Type:	ENFORCEMENT
Date:	04/15/2011
Action:	Technical Correspondence / Assistance / Other

Global Id:	T0600101482
Action Type:	ENFORCEMENT

UNION OIL SS 4748 (Continued) **U001596871**

Date: 12/15/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 09/28/1987
Action: Other Report

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 06/27/1988
Action: Other Report

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 11/28/1988
Action: Deadline Extension

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 11/20/2019
Action: Staff Letter

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 11/16/2017
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 11/02/2017
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0600101482
Action Type: RESPONSE
Date: 10/20/2009
Action: Correspondence

Global Id: T0600101482
Action Type: RESPONSE
Date: 01/30/2019
Action: Fact Sheets - Public Participation

Global Id: T0600101482
Action Type: RESPONSE
Date: 07/26/1991
Action: Other Report / Document

Global Id: T0600101482
Action Type: RESPONSE
Date: 02/19/1991
Action: Other Report / Document

Global Id: T0600101482
Action Type: RESPONSE
Date: 01/19/1996
Action: Soil and Water Investigation Report

UNION OIL SS 4748 (Continued) **U001596871**

Global Id: T0600101482
Action Type: RESPONSE
Date: 08/04/1995
Action: Other Workplan

Global Id: T0600101482
Action Type: RESPONSE
Date: 10/22/1987
Action: Other Report / Document

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 05/21/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 03/25/2009
Action: Notification - Public Notice of ROD/RAP/CAP

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 12/18/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 07/31/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 08/14/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 07/08/2014
Action: Meeting

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 11/30/2017
Action: 13267 Requirement

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 12/20/2018
Action: Notification - Public Notice of ROD/RAP/CAP

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 07/23/2018
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101482
Action Type: Other

UNION OIL SS 4748 (Continued) **U001596871**

Date: 09/30/1987
Action: Leak Discovery

Global Id: T0600101482
Action Type: RESPONSE
Date: 05/06/1991
Action: Monitoring Report - Quarterly

Global Id: T0600101482
Action Type: RESPONSE
Date: 11/07/1987
Action: Other Report / Document

Global Id: T0600101482
Action Type: RESPONSE
Date: 10/08/1986
Action: Well Installation Workplan

Global Id: T0600101482
Action Type: RESPONSE
Date: 12/04/1990
Action: Other Workplan

Global Id: T0600101482
Action Type: RESPONSE
Date: 03/31/1989
Action: Soil and Water Investigation Report

Global Id: T0600101482
Action Type: RESPONSE
Date: 01/03/1989
Action: Other Report / Document

Global Id: T0600101482
Action Type: RESPONSE
Date: 07/08/2013
Action: Request for Closure - Regulator Responded

Global Id: T0600101482
Action Type: RESPONSE
Date: 08/27/2014
Action: Other Workplan - Regulator Responded

Global Id: T0600101482
Action Type: RESPONSE
Date: 04/06/2016
Action: Other Workplan - Regulator Responded

Global Id: T0600101482
Action Type: RESPONSE
Date: 10/15/2020
Action: Pilot Study / Treatability Workplan - Regulator Responded

Global Id: T0600101482
Action Type: RESPONSE
Date: 07/14/2017
Action: Well Installation Workplan - Regulator Responded

UNION OIL SS 4748 (Continued) **U001596871**

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 06/27/1988
Action: * Historical Enforcement

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 04/04/2019
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 10/22/2020
Action: Staff Letter

Global Id: T0600101482
Action Type: RESPONSE
Date: 05/17/2018
Action: Other Report / Document

Global Id: T0600101482
Action Type: RESPONSE
Date: 02/16/2018
Action: CAP/RAP - Feasibility Study Report

Global Id: T0600101482
Action Type: RESPONSE
Date: 11/21/2018
Action: Fact Sheets - Public Participation

Global Id: T0600101482
Action Type: RESPONSE
Date: 09/10/1996
Action: Well Destruction Report

Global Id: T0600101482
Action Type: RESPONSE
Date: 02/10/1994
Action: Monitoring Report - Quarterly

Global Id: T0600101482
Action Type: RESPONSE
Date: 07/26/1991
Action: Monitoring Report - Quarterly

Global Id: T0600101482
Action Type: RESPONSE
Date: 06/07/2019
Action: Remedial Progress Report

Global Id: T0600101482
Action Type: RESPONSE
Date: 07/29/1990
Action: Soil and Water Investigation Report

Global Id: T0600101482
Action Type: RESPONSE

UNION OIL SS 4748 (Continued) **U001596871**

Date: 07/03/1991
Action: Other Report / Document

Global Id: T0600101482
Action Type: RESPONSE
Date: 06/06/1991
Action: Unauthorized Release Form

Global Id: T0600101482
Action Type: RESPONSE
Date: 01/15/1994
Action: Monitoring Report - Quarterly

Global Id: T0600101482
Action Type: RESPONSE
Date: 01/15/1995
Action: Monitoring Report - Quarterly

Global Id: T0600101482
Action Type: RESPONSE
Date: 10/30/1992
Action: Monitoring Report - Quarterly

Global Id: T0600101482
Action Type: RESPONSE
Date: 01/26/1989
Action: Soil and Water Investigation Workplan

Global Id: T0600101482
Action Type: RESPONSE
Date: 07/12/1988
Action: Soil and Water Investigation Workplan

Global Id: T0600101482
Action Type: RESPONSE
Date: 01/24/1996
Action: Monitoring Report - Quarterly

Global Id: T0600101482
Action Type: RESPONSE
Date: 04/16/1992
Action: Other Workplan

Global Id: T0600101482
Action Type: RESPONSE
Date: 12/02/1992
Action: Interim Remedial Action Report

Global Id: T0600101482
Action Type: RESPONSE
Date: 10/04/1988
Action: Other Report / Document

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 07/27/2016
Action: Technical Correspondence / Assistance / Other

UNION OIL SS 4748 (Continued) **U001596871**

Global Id: T0600101482
Action Type: Other
Date: 09/30/1987
Action: Leak Reported

Global Id: T0600101482
Action Type: RESPONSE
Date: 08/05/1991
Action: Other Report / Document

Global Id: T0600101482
Action Type: RESPONSE
Date: 01/30/1991
Action: Monitoring Report - Quarterly

Global Id: T0600101482
Action Type: RESPONSE
Date: 06/08/1987
Action: Well Installation Report

Global Id: T0600101482
Action Type: RESPONSE
Date: 10/01/1987
Action: Unauthorized Release Form

Global Id: T0600101482
Action Type: RESPONSE
Date: 01/15/1996
Action: Monitoring Report - Quarterly

Global Id: T0600101482
Action Type: RESPONSE
Date: 12/04/1990
Action: Other Workplan

Global Id: T0600101482
Action Type: RESPONSE
Date: 06/29/1988
Action: Monitoring Report - Quarterly

Global Id: T0600101482
Action Type: RESPONSE
Date: 04/10/2019
Action: Email Correspondence

Global Id: T0600101482
Action Type: RESPONSE
Date: 01/02/1990
Action: Monitoring Report - Quarterly

Global Id: T0600101482
Action Type: RESPONSE
Date: 01/17/2001
Action: Monitoring Report - Quarterly

Global Id: T0600101482
Action Type: RESPONSE

UNION OIL SS 4748 (Continued) **U001596871**

Date: 12/30/1988
Action: Monitoring Report - Quarterly

Global Id: T0600101482
Action Type: RESPONSE
Date: 02/28/2021
Action: Well Installation Report

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 08/11/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 07/08/2013
Action: Petition Submitted for Review

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 10/23/2018
Action: 13267 Requirement

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 05/23/1989
Action: Other Report

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 06/03/1988
Action: Other Report

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 06/04/1990
Action: Other Report

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 12/06/1990
Action: Access Agreement

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 03/06/2019
Action: 13267 Requirement

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 10/08/1988
Action: Other Report

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 03/23/2020
Action: Staff Letter

UNION OIL SS 4748 (Continued) **U001596871**

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 11/03/2020
Action: 13267 Requirement

Global Id: T0600101482
Action Type: Other
Date: 09/30/1987
Action: Leak Stopped

Global Id: T0600101482
Action Type: RESPONSE
Date: 10/24/2018
Action: Other Report / Document

Global Id: T0600101482
Action Type: RESPONSE
Date: 05/13/1998
Action: Monitoring Report - Quarterly

Global Id: T0600101482
Action Type: RESPONSE
Date: 10/04/1987
Action: Other Report / Document

Global Id: T0600101482
Action Type: ENFORCEMENT
Date: 08/06/2009
Action: Technical Correspondence / Assistance / Other

LUST:
Global Id: T0600101482
Status: Open - Case Begin Date
Status Date: 02/18/1987

Global Id: T0600101482
Status: Open - Site Assessment
Status Date: 02/18/1987

Global Id: T0600101482
Status: Open - Site Assessment
Status Date: 09/30/1988

Global Id: T0600101482
Status: Open - Assessment & Interim Remedial Action
Status Date: 03/06/2019

HIST UST:
Name: UNION OIL SS 4748
Address: 5301 MOWRY AVE
City,State,Zip: FREMONT, CA 94536
File Number: 0003647D
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0003647D.pdf
Region: STATE
Facility ID: 00000060214

UNION OIL SS 4748 (Continued) **U001596871**

Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	RICHARD J. CARTER
Telephone:	4157917600
Owner Name:	UNION OIL CO.
Owner Address:	1 CALIFORNIA ST. SUITE 2700
Owner City,St,Zip:	SAN FRANCISCO, CA 94111
Total Tanks:	0002
Tank Num:	001
Container Num:	4748-1-1
Year Installed:	1984
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	001
Container Num:	4748-1-1
Year Installed:	1984
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	4748-2-1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	4748-2-1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

CORTESE:

Name:	76 STATION #5650/4748
Address:	5301 MOWRY AVE
City,State,Zip:	FREMONT, CA 94538
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0600101482
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	OPEN - ASSESSMENT & INTERIM REMEDIAL ACTION
Status Date:	Not reported

UNION OIL SS 4748 (Continued) **U001596871**

Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS:

Name:	TOSCO C/O ENVIRONMENTAL RESOLU
Address:	5301 MOWRY AVENUE
City,State,Zip:	FREMONT, CA 94538-1057
Site ID:	499473
CERS ID:	110021315361
CERS Description:	US EPA Air Emission Inventory System (EIS)

Name:	76 STATION #5650/4748
Address:	5301 MOWRY AVE
City,State,Zip:	FREMONT, CA 94538
Site ID:	240692
CERS ID:	T0600101482
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	EILEEN CHEN - ALAMEDA COUNTY WATER DISTRICT
Entity Title:	Not reported
Affiliation Address:	43885 SOUTH GRIMMER BLVD.
Affiliation City:	FREMONT
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	RALPH LAMBERT - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST. SUITE 1500
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

G60
East
1/4-1/2
0.339 mi.
1789 ft.

Relative:
Higher

Actual:
37 ft.

CHEVRON NO. 4230
5300 MOWRY AVE
FREMONT, CA 94538

Site 1 of 2 in cluster G

Database(s): LUST, SWEEPS UST, CA FID UST, CHMIRS, HIST CORTESE, CERS

EDR ID Number: S101580007
EPA ID Number: N/A

LUST:

Name:	CHEVRON NO. 4230
Address:	5300 MOWRY AVE
City,State,Zip:	FREMONT, CA 94538
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100346
Global Id:	T0600100346
Latitude:	37.5329835
Longitude:	-122.0005543
Status:	Completed - Case Closed
Status Date:	06/11/2015
Case Worker:	DY
RB Case Number:	01-0377
Local Agency:	ALAMEDA COUNTY WATER DISTRICT
File Location:	Not reported
Local Case Number:	TT0037
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel, Gasoline, MTBE / TBA / Other Fuel Oxygenates, * * TERT-BUTYL ALCOHOL (TBA), * TERT-BUTYL ALCOHOL (TBA), Toluene, Xylene
Site History:	Not reported

LUST:

Global Id:	T0600100346
Contact Type:	Local Agency Caseworker
Contact Name:	DOUG YOUNG
Organization Name:	ALAMEDA COUNTY WATER DISTRICT
Address:	43885 SOUTH GRIMMER BLVD
City:	FREMONT
Email:	douglas.young@acwd.com
Phone Number:	Not reported

LUST:

Global Id:	T0600100346
Action Type:	ENFORCEMENT
Date:	06/11/2015
Action:	Closure/No Further Action Letter
Global Id:	T0600100346
Action Type:	RESPONSE
Date:	12/17/1991
Action:	Other Workplan
Global Id:	T0600100346
Action Type:	RESPONSE
Date:	07/19/1989
Action:	Unauthorized Release Form
Global Id:	T0600100346
Action Type:	RESPONSE
Date:	07/26/1991
Action:	Correspondence

CHEVRON NO. 4230 (Continued) **S101580007**

Global Id: T0600100346
Action Type: ENFORCEMENT
Date: 10/16/2007
Action: Technical Correspondence / Assistance / Other

Global Id: T0600100346
Action Type: ENFORCEMENT
Date: 09/30/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0600100346
Action Type: Other
Date: 11/24/1984
Action: Leak Discovery

Global Id: T0600100346
Action Type: REMEDIATION
Date: 06/08/1990
Action: Pump & Treat (P&T) Groundwater

Global Id: T0600100346
Action Type: REMEDIATION
Date: 04/26/1995
Action: Excavation

Global Id: T0600100346
Action Type: ENFORCEMENT
Date: 12/08/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T0600100346
Action Type: ENFORCEMENT
Date: 04/22/2014
Action: State Water Board Closure Order

Global Id: T0600100346
Action Type: RESPONSE
Date: 01/12/1990
Action: Other Report / Document

Global Id: T0600100346
Action Type: RESPONSE
Date: 10/19/1988
Action: Other Report / Document

Global Id: T0600100346
Action Type: RESPONSE
Date: 01/13/1998
Action: Other Report / Document

Global Id: T0600100346
Action Type: RESPONSE
Date: 09/13/1991
Action: Correspondence

Global Id: T0600100346
Action Type: RESPONSE

CHEVRON NO. 4230 (Continued) **S101580007**

Date: 06/16/1997
Action: Other Report / Document

Global Id: T0600100346
Action Type: RESPONSE
Date: 02/25/1997
Action: Other Report / Document

Global Id: T0600100346
Action Type: RESPONSE
Date: 04/03/1989
Action: Other Report / Document

Global Id: T0600100346
Action Type: RESPONSE
Date: 04/06/1990
Action: Other Report / Document

Global Id: T0600100346
Action Type: RESPONSE
Date: 12/14/1990
Action: Other Report / Document

Global Id: T0600100346
Action Type: RESPONSE
Date: 03/20/1989
Action: Correspondence

Global Id: T0600100346
Action Type: RESPONSE
Date: 06/08/1987
Action: Other Report / Document

Global Id: T0600100346
Action Type: ENFORCEMENT
Date: 11/04/2013
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0600100346
Action Type: ENFORCEMENT
Date: 11/04/2013
Action: Clean Up Fund - Letter to RP

Global Id: T0600100346
Action Type: ENFORCEMENT
Date: 11/19/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0600100346
Action Type: Other
Date: 11/24/1984
Action: Leak Reported

Global Id: T0600100346
Action Type: RESPONSE
Date: 07/07/1987
Action: Other Report / Document

CHEVRON NO. 4230 (Continued) **S101580007**

Global Id: T0600100346
Action Type: RESPONSE
Date: 11/14/1991
Action: Correspondence

Global Id: T0600100346
Action Type: RESPONSE
Date: 06/27/1988
Action: Correspondence

Global Id: T0600100346
Action Type: ENFORCEMENT
Date: 11/24/2009
Action: File review

Global Id: T0600100346
Action Type: Other
Date: 11/24/1984
Action: Leak Stopped

Global Id: T0600100346
Action Type: ENFORCEMENT
Date: 07/29/2009
Action: Technical Correspondence / Assistance / Other

LUST:
Global Id: T0600100346
Status: Open - Case Begin Date
Status Date: 01/31/1984

Global Id: T0600100346
Status: Open - Site Assessment
Status Date: 01/31/1984

Global Id: T0600100346
Status: Open - Site Assessment
Status Date: 01/31/1988

Global Id: T0600100346
Status: Open - Remediation
Status Date: 04/03/1989

Global Id: T0600100346
Status: Open - Remediation
Status Date: 06/08/1990

Global Id: T0600100346
Status: Open - Eligible for Closure
Status Date: 08/05/2013

Global Id: T0600100346
Status: Completed - Case Closed
Status Date: 06/11/2015

SWEEPS UST:

CHEVRON NO. 4230 (Continued) **S101580007**

Name:	CHEVRON #K9-4230
Address:	5300 MOWRY AVE
City:	FREMONT
Status:	Active
Comp Number:	62586
Number:	1
Board Of Equalization:	44-031913
Referral Date:	06-21-93
Action Date:	11-08-93
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	01-009-062586-000001
Tank Status:	A
Capacity:	10000
Active Date:	06-21-93
Tank Use:	M.V. FUEL
STG:	P
Content:	PRM UNLEADED
Number Of Tanks:	5

Name:	CHEVRON #K9-4230
Address:	5300 MOWRY AVE
City:	FREMONT
Status:	Active
Comp Number:	62586
Number:	1
Board Of Equalization:	44-031913
Referral Date:	06-21-93
Action Date:	11-08-93
Created Date:	02-29-88
Owner Tank Id:	2
SWRCB Tank Id:	01-009-062586-000002
Tank Status:	A
Capacity:	6000
Active Date:	06-21-93
Tank Use:	M.V. FUEL
STG:	P
Content:	UNLEADED PLU
Number Of Tanks:	Not reported

Name:	CHEVRON #K9-4230
Address:	5300 MOWRY AVE
City:	FREMONT
Status:	Active
Comp Number:	62586
Number:	1
Board Of Equalization:	44-031913
Referral Date:	06-21-93
Action Date:	11-08-93
Created Date:	02-29-88
Owner Tank Id:	3
SWRCB Tank Id:	01-009-062586-000003
Tank Status:	A
Capacity:	10000
Active Date:	06-21-93
Tank Use:	M.V. FUEL
STG:	P

CHEVRON NO. 4230 (Continued) **S101580007**

Content: REG UNLEADED
Number Of Tanks: Not reported

Name: CHEVRON #K9-4230
Address: 5300 MOWRY AVE
City: FREMONT
Status: Active
Comp Number: 62586
Number: 1
Board Of Equalization: 44-031913
Referral Date: 06-21-93
Action Date: 11-08-93
Created Date: 02-29-88
Owner Tank Id: 4
SWRCB Tank Id: 01-009-062586-000004
Tank Status: A
Capacity: 1500
Active Date: 06-21-93
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

Name: CHEVRON #K9-4230
Address: 5300 MOWRY AVE
City: FREMONT
Status: Active
Comp Number: 62586
Number: 1
Board Of Equalization: 44-031913
Referral Date: 06-21-93
Action Date: 11-08-93
Created Date: 02-29-88
Owner Tank Id: 5
SWRCB Tank Id: 01-009-062586-000005
Tank Status: A
Capacity: 10000
Active Date: 06-21-93
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 01000505
Regulated By: UTNKA
Regulated ID: 00062586
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 5107923851
Mail To: Not reported
Mailing Address: 5300 MOWRY AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: FREMONT 94538
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported

CHEVRON NO. 4230 (Continued) **S101580007**

NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CHMIRS:

Name:	Not reported
Address:	5300 MOWRY AVE.
City,State,Zip:	FREMONT, CA 94538
OES Incident Number:	18-1971
OES notification:	03/26/2018
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Service Station
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	PETROLEUM
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1030
Year:	2018
Agency:	Chevron
Incident Date:	03/26/2018
Admin Agency:	Fremont City Fire Department
Amount:	Not reported
Contained:	Yes

CHEVRON NO. 4230 (Continued) **S101580007**

Site Type:	Not reported
E Date:	Not reported
Substance:	Diesel
Quantity Released:	1.5
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	RP states, A customer had a hole in their fuel tank which caused the release of 1.5 gallons of diesel fuel. The release was stopped and cleanup was completed by station personnel. No impact to any waterways or storm drains.

Name:	Not reported
Address:	5300 MOWRY AVENUE
City,State,Zip:	FREMONT, CA 94538
OES Incident Number:	13-4947
OES notification:	08/11/2013
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported

CHEVRON NO. 4230 (Continued) **S101580007**

Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Service Station
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	950
Year:	2013
Agency:	NRC
Incident Date:	8/11/2013
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Gasoline, Unleaded
Quantity Released:	1.5
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Quoting the NRC Report: "CALLER STATED THAT A CUSTOMER OVERFILLED THERE VEHICLE CAUSING A DISCHARGE OF 1.5 GALLONS OF GASOLINE FROM THE VEHICLE ONTO THE GROUND." "SORBENTS WERE USED FOR CLEANUP."

HIST CORTESE:

edr_fname:	CHEVRON
edr_fadd1:	5300 MOWRY
City,State,Zip:	FREMONT, CA 94618
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0377

CERS:

Name:	CHEVRON NO. 4230
Address:	5300 MOWRY AVE
City,State,Zip:	FREMONT, CA 94538

CHEVRON NO. 4230 (Continued) **S101580007**

Site ID: 241278
CERS ID: T0600100346
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: DOUG YOUNG - ALAMEDA COUNTY WATER DISTRICT
Entity Title: Not reported
Affiliation Address: 43885 SOUTH GRIMMER BLVD
Affiliation City: FREMONT
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker
Entity Name: BARBARA SIEMINSKI - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET, SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

G61 **CHEVRON NO. 4230** **LUST** **S105030559**
East **5300 MOWRY AVE** **Cortese** **N/A**
1/4-1/2 **FREMONT, CA 94538**
0.339 mi.
1789 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
37 ft.

LUST REG 2:
Region: 2
Facility Id: 01-0377
Facility Status: Remedial action (cleanup) Underway
Case Number: 0037
How Discovered: VS,
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/31/1984
Pollution Characterization Began: 1/31/1988
Pollution Remediation Plan Submitted: 4/3/1989
Date Remediation Action Underway: 6/8/1990
Date Post Remedial Action Monitoring Began: Not reported

CORTESE:
Name: CHEVRON NO. 4230
Address: 5300 MOWRY AVE
City,State,Zip: FREMONT, CA 94538
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600100346
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED

CHEVRON NO. 4230 (Continued) **S105030559**

Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

H62 **J AND M CONCRETE CONTRACTORS** **LUST** **U001597774**
WNW **38288 CEDAR BLVD** **HIST UST** **N/A**
1/4-1/2 **NEWARK, CA 94560** **Cortese**
0.353 mi. **CERS**
1862 ft. **Site 1 of 3 in cluster H**

Relative: **Higher**
Actual: **33 ft.**

LUST:

Name:	J & M CONCRETE
Address:	38288 CEDAR BOULEVARD
City,State,Zip:	NEWARK, CA 94560
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600173774
Global Id:	T0600173774
Latitude:	37.5336569522707
Longitude:	-122.011090817266
Status:	Open - Remediation
Status Date:	05/14/2021
Case Worker:	THC
RB Case Number:	01-3514
Local Agency:	ALAMEDA COUNTY WATER DISTRICT
File Location:	Not reported
Local Case Number:	TT0623
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	The subject property (Site) is a developed commercial parcel with a single, large metal warehouse building surrounded by exposed soil and gravel cover. The Site is the current location of a concrete provider (Al-con Concrete) in the area of large industrial and commercial properties, bounded by Cedar Blvd on the south and Freeway 880 (Nimitz Freeway) to the north, or back side of parcel. A preschool and Academy for Dyslexics are located on the parcel directly across Cedar Blvd to the south, along with single-family residential homes and a neighborhood church (Cedar Blvd). Contaminant constituents, concentrations, and plume (if any) extent are unknown and undocumented.

LUST:

Global Id:	T0600173774
Contact Type:	Local Agency Caseworker
Contact Name:	EILEEN CHEN

J AND M CONCRETE CONTRACTORS (Continued) **U001597774**

Organization Name: ALAMEDA COUNTY WATER DISTRICT
Address: 43885 SOUTH GRIMMER BLVD.
City: FREMONT
Email: eileen.chen@acwd.com
Phone Number: Not reported

Global Id: T0600173774
Contact Type: Regional Board Caseworker
Contact Name: TORREN CAMPBELL
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 Clay Street Suite 1400
City: OAKLAND
Email: torren.campbell@waterboards.ca.gov
Phone Number: 5106222470

LUST:
Global Id: T0600173774
Action Type: ENFORCEMENT
Date: 04/18/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0600173774
Action Type: ENFORCEMENT
Date: 06/25/2014
Action: File review

Global Id: T0600173774
Action Type: ENFORCEMENT
Date: 04/04/2006
Action: Technical Correspondence / Assistance / Other

Global Id: T0600173774
Action Type: ENFORCEMENT
Date: 06/17/2020
Action: Verbal Communication

Global Id: T0600173774
Action Type: Other
Date: 04/14/1989
Action: Leak Discovery

Global Id: T0600173774
Action Type: REMEDIATION
Date: 04/14/1989
Action: Excavation

Global Id: T0600173774
Action Type: ENFORCEMENT
Date: 06/09/2015
Action: Technical Correspondence / Assistance / Other

Global Id: T0600173774
Action Type: RESPONSE
Date: 11/09/1998
Action: Tank Removal Report / UST Sampling Report

Global Id: T0600173774

J AND M CONCRETE CONTRACTORS (Continued) **U001597774**

Action Type: RESPONSE
Date: 08/26/2015
Action: Site Assessment Report

Global Id: T0600173774
Action Type: RESPONSE
Date: 10/01/2019
Action: Site Assessment Report

Global Id: T0600173774
Action Type: ENFORCEMENT
Date: 04/14/2010
Action: File review

Global Id: T0600173774
Action Type: ENFORCEMENT
Date: 08/12/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0600173774
Action Type: ENFORCEMENT
Date: 06/30/2016
Action: File review

Global Id: T0600173774
Action Type: Other
Date: 04/14/1989
Action: Leak Reported

Global Id: T0600173774
Action Type: ENFORCEMENT
Date: 12/19/2018
Action: Other Report

Global Id: T0600173774
Action Type: Other
Date: 04/14/1989
Action: Leak Stopped

Global Id: T0600173774
Action Type: RESPONSE
Date: 09/16/2020
Action: Correspondence

LUST:
Global Id: T0600173774
Status: Open - Case Begin Date
Status Date: 04/14/1989

Global Id: T0600173774
Status: Open - Site Assessment
Status Date: 02/25/2004

Global Id: T0600173774
Status: Open - Remediation
Status Date: 05/14/2021

J AND M CONCRETE CONTRACTORS (Continued) **U001597774**

HIST UST:

Name:	J AND M CONCRETE CONTRACTORS
Address:	38288 CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
File Number:	00035FC2
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035FC2.pdf
Region:	STATE
Facility ID:	00000028204
Facility Type:	Other
Other Type:	CONCRETE CONTR.
Contact Name:	Not reported
Telephone:	4157931352
Owner Name:	FRANK FREITAS
Owner Address:	4603 MAYFIELD DR.
Owner City,St,Zip:	FREMONT, CA 94536
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	1969
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	002
Container Num:	2
Year Installed:	1969
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Click here for Geo Tracker PDF:

CORTESE:

Name:	J & M CONCRETE
Address:	38288 CEDAR BOULEVARD
City,State,Zip:	NEWARK, CA 94560
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0600173774
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	OPEN - REMEDIATION
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported

J AND M CONCRETE CONTRACTORS (Continued) **U001597774**

Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:
Name: J & M CONCRETE
Address: 38288 CEDAR BOULEVARD
City,State,Zip: NEWARK, CA 94560
Site ID: 258784
CERS ID: T0600173774
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: SIMERPREET MATHARU - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 clay Street, Suite 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 5106222339,

Affiliation Type Desc: Local Agency Caseworker
Entity Name: EILEEN CHEN - ALAMEDA COUNTY WATER DISTRICT
Entity Title: Not reported
Affiliation Address: 43885 SOUTH GRIMMER BLVD.
Affiliation City: FREMONT
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

H63 **J & M CONCRETE** **LUST** **S106448125**
WNW **38288 CEDAR BOULEVARD** **N/A**
1/4-1/2 **NEWARK, CA 94560**
0.353 mi.
1862 ft. **Site 2 of 3 in cluster H**

Relative:
Higher

Actual:
33 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Pollution Characterization
Case Number: 0623
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Tank
Date Leak Confirmed: 2/25/2004
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: 2/25/2004
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported

J & M CONCRETE (Continued) **S106448125**

Date Post Remedial Action Monitoring Began: Not reported

H64 **TIMBER STREET PROPERTY** **ENVIROSTOR** **S116490708**
WNW **37855, 37875 TIMBER STREET/38000, 38100, 38200, CEDAR BLVD** **VCP** **N/A**
1/4-1/2 **NEWARK, CA 94560**
0.376 mi.
1987 ft. **Site 3 of 3 in cluster H**

Relative:
Higher

Actual:
34 ft.

ENVIROSTOR:

Name:	TIMBER STREET PROPERTY
Address:	37855, 37875 TIMBER STREET/38000, 38100, 38200, CEDAR BLVD
City,State,Zip:	NEWARK, CA 94560
Facility ID:	60001995
Status:	No Further Action
Status Date:	12/18/2014
Site Code:	202003
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	12
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Juanita (Nina) Bacey
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Assembly:	25
Senate:	10
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.53518
Longitude:	-122.0140
APN:	092A212501500, 092A212501600, 092A212501801, 092A237502600, 092A237502701, 092A237502800, 092A237502900, 092A237503000, 092A237503100
Past Use:	MANUFACTURING - METAL, METAL FINISHING, UNDERGROUND STORAGE TANKS, VEHICLE MAINTENANCE
Potential COC:	Benzene TPH-diesel TPH-MOTOR OIL Cobalt
Confirmed COC:	Benzene
Potential Description:	IA
Alias Name:	092A212501500
Alias Type:	APN
Alias Name:	092A212501600
Alias Type:	APN
Alias Name:	092A212501801
Alias Type:	APN
Alias Name:	092A237502600
Alias Type:	APN
Alias Name:	092A237502701
Alias Type:	APN
Alias Name:	092A237502800
Alias Type:	APN
Alias Name:	092A237502900
Alias Type:	APN
Alias Name:	092A237503000
Alias Type:	APN
Alias Name:	092A237503100

TIMBER STREET PROPERTY (Continued) **S116490708**

Alias Type: APN
Alias Name: 202003
Alias Type: Project Code (Site Code)
Alias Name: 60001995
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/27/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/20/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/26/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/26/2012
Comments: Draft document - not reviewed by DTSC

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/24/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/03/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 12/12/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/09/2014
Comments: Alameda County-Facility Closure Approval-Advanced Anodize Inc.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report

TIMBER STREET PROPERTY (Continued) **S116490708**

Completed Date: 04/09/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 10/16/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 11/24/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 12/18/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 12/18/2014
Comments: The supplemental groundwater investigation revealed no contaminants in groundwater; no further action necessary

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 04/30/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 09/09/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/27/2014
Comments: No further action needed for soil and soil gas, but further action needed for gw.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/10/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/13/2013

TIMBER STREET PROPERTY (Continued) **S116490708**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/23/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 01/29/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/26/2013
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Name: TIMBER STREET PROPERTY
Address: 37855, 37875 TIMBER STREET/38000, 38100, 38200, CEDAR BLVD
City,State,Zip: NEWARK, CA 94560
Facility ID: 60001995
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 12
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Juanita (Nina) Bacey
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 202003
Assembly: 25
Senate: 10
Special Programs Code: Not reported
Status: No Further Action
Status Date: 12/18/2014
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.53518 / -122.0140
APN: 092A212501500, 092A212501600, 092A212501801, 092A237502600, 092A237502701, 092A237502800, 092A237502900, 092A237503000,

TIMBER STREET PROPERTY (Continued) **S116490708**

092A237503100
Past Use: MANUFACTURING - METAL, METAL FINISHING, UNDERGROUND STORAGE TANKS, VEHICLE MAINTENANCE
Potential COC: 30003, 30024, 3002502, 30154
Confirmed COC: 30003
Potential Description: IA
Alias Name: 092A212501500
Alias Type: APN
Alias Name: 092A212501600
Alias Type: APN
Alias Name: 092A212501801
Alias Type: APN
Alias Name: 092A237502600
Alias Type: APN
Alias Name: 092A237502701
Alias Type: APN
Alias Name: 092A237502800
Alias Type: APN
Alias Name: 092A237502900
Alias Type: APN
Alias Name: 092A237503000
Alias Type: APN
Alias Name: 092A237503100
Alias Type: APN
Alias Name: 202003
Alias Type: Project Code (Site Code)
Alias Name: 60001995
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/27/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/20/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/26/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/26/2012
Comments: Draft document - not reviewed by DTSC

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/24/2006

TIMBER STREET PROPERTY (Continued) **S116490708**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/03/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 12/12/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/09/2014
Comments: Alameda County-Facility Closure Approval-Advanced Anodize Inc.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/09/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 10/16/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 11/24/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 12/18/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 12/18/2014
Comments: The supplemental groundwater investigation revealed no contaminants in groundwater; no further action necessary

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 04/30/2014
Comments: Not reported

TIMBER STREET PROPERTY (Continued) **S116490708**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Standard Voluntary Agreement
Completed Date:	09/09/2014
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	06/27/2014
Comments:	No further action needed for soil and soil gas, but further action needed for gw.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	10/10/2013
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	11/13/2013
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	09/23/2013
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	01/29/2014
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	03/26/2013
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

I65
ENE
1/4-1/2
0.413 mi.
2183 ft.

Relative:
Higher

Actual:
38 ft.

SPARKLIZING CLEANERS AND LAUNDRY
5200 MOWRY AVE
FREMONT, CA 94538

Site 1 of 2 in cluster I

RCRA-SQG **1000363676**
CPS-SLIC **CAD981630924**
CERS HAZ WASTE
DRYCLEANERS
EMI
CERS

RCRA-SQG:

Date Form Received by Agency:	19870114
Handler Name:	SPARKLIZING CLEANERS AND LAUNDRY
Handler Address:	5200 MOWRY AVE
Handler City,State,Zip:	FREMONT, CA 94538
EPA ID:	CAD981630924
Contact Name:	ENVIRONMENTAL MANAGER
Contact Address:	5200 MOWRY AVE
Contact City,State,Zip:	FREMONT, CA 94538
Contact Telephone:	415-797-4632
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	2
Mailing Address:	MOWRY AVE
Mailing City,State,Zip:	FREMONT, CA 94538
Owner Name:	DAVID AND ENRIQUETA MENDOZA
Owner Type:	Private
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline

SPARKLIZING CLEANERS AND LAUNDRY (Continued) **1000363676**

Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20000915
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DAVID AND ENRIQUETA MENDOZA
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

SPARKLIZING CLEANERS AND LAUNDRY (Continued) **1000363676**

Historic Generators:
Receive Date: 19870114
Handler Name: SPARKLIZING CLEANERS AND LAUNDRY
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

CPS-SLIC:
Name: SPARKLIZING CLEANERS
Address: 5200 MOWRY AVENUE
City,State,Zip: FREMONT, CA 94538
Region: STATE
Facility Status: **Open - Verification Monitoring**
Status Date: 04/01/2015
Global Id: SL0600199502
Lead Agency: ALAMEDA COUNTY WATER DISTRICT
Lead Agency Case Number: 0744
Latitude: 37.5331951
Longitude: -121.9991938
Case Type: Cleanup Program Site
Case Worker: SZ
Local Agency: ALAMEDA COUNTY WATER DISTRICT
RB Case Number: 01S0623
File Location: Local Agency
Potential Media Affected: Aquifer used for drinking water supply, Soil, Soil Vapor, Surface water
Potential Contaminants of Concern: * Chlorinated Solvents - PCE, * Chlorinated Solvents - TCE
Site History: The Site is a commercial unit located in a shopping center. Dry cleaning operations have been in existence at this site since approximately 1982. It appears that the prior dry-cleaning operators used cleaning products containing tetrachloroethene (PCE). The current dry-cleaning system that has been in operation for more than10 years uses a non-solvent based cleaner. Since 2003, soil, groundwater, soil vapor investigations have been conducted at the site.

Click here to access the California GeoTracker records for this facility:

SPARKLIZING CLEANERS AND LAUNDRY (Continued) **1000363676**

CERS HAZ WASTE:

Name:	SPARKLIZING CLEANERS
Address:	5200 MOWRY AVENUE
City,State,Zip:	FREMONT, CA 94538
Site ID:	155667
CERS ID:	10169049
CERS Description:	Hazardous Waste Generator

DRYCLEANERS:

Name:	SPARKLIZING CLEANERS
Address:	5200 MOWRY AVE STE A
City,State,Zip:	FREMONT, CA 945380000
EPA Id:	CAL000231804
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	12/12/2001
Facility Active:	Yes
Inactive Date:	Not reported
Facility Addr2:	Not reported
Owner Name:	H Y S L, INC
Owner Address:	5200 MOWRY AVE STE A
Owner Address 2:	Not reported
Owner Telephone:	5107974632
Contact Name:	SAMUEL LEE
Contact Address:	5200 MOWRY AVE STE A
Contact Address 2:	Not reported
Contact Telephone:	5107974632
Contact Fax:	Not reported
Mailing Name:	Not reported
Mailing Address 1:	5200 MOWRY AVE STE A
Mailing Address 2:	Not reported
Mailing City:	FREMONT
Mailing State:	CA
Mailing Zip:	945380000
Owner Fax:	Not reported
Region Code:	2
Latitude:	37.534122
Longitude:	-121.999926

Name:	SPARKLIZING CLEANERS AND LAUNDRY
Address:	5200 MOWRY AVE
City,State,Zip:	FREMONT, CA 945380000
EPA Id:	CAD981630924
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	04/10/1987
Facility Active:	No
Inactive Date:	06/30/2002
Facility Addr2:	Not reported
Owner Name:	HAK LEE
Owner Address:	4545 DOANE ST
Owner Address 2:	Not reported

SPARKLIZING CLEANERS AND LAUNDRY (Continued) **1000363676**

Owner Telephone:	5106516066
Contact Name:	HAK LEE/MANAGER-OWNER
Contact Address:	5200 MOWRY AVE SUITE A
Contact Address 2:	Not reported
Contact Telephone:	5107974632
Contact Fax:	Not reported
Mailing Name:	Not reported
Mailing Address 1:	5200 MOWRY AVE
Mailing Address 2:	Not reported
Mailing City:	FREMONT
Mailing State:	CA
Mailing Zip:	945381064
Owner Fax:	Not reported
Region Code:	2
Latitude:	37.534331
Longitude:	-122.000202

EMI:

Name:	SPARKLIZING CLEANERS
Address:	5200 MOWRY AVE #A
City,State,Zip:	FREMONT, CA 945380000
Year:	1990
County Code:	1
Air Basin:	SF
Facility ID:	4837
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SPARKLIZING CLEANERS
Address:	5200 MOWRY AVE #A
City,State,Zip:	FREMONT, CA 945380000
Year:	1995
County Code:	1
Air Basin:	SF
Facility ID:	4837
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

SPARKLIZING CLEANERS AND LAUNDRY (Continued) **1000363676**

Name:	SPARKLIZING CLEANERS
Address:	5200 MOWRY AVE #A
City,State,Zip:	FREMONT, CA 945380000
Year:	1996
County Code:	1
Air Basin:	SF
Facility ID:	4837
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SPARKLIZING CLEANERS
Address:	5200 MOWRY AVE #A
City,State,Zip:	FREMONT, CA 945380000
Year:	1997
County Code:	1
Air Basin:	SF
Facility ID:	4837
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SPARKLIZING CLEANERS
Address:	5200 MOWRY AVE #A
City,State,Zip:	FREMONT, CA 945380000
Year:	1998
County Code:	1
Air Basin:	SF
Facility ID:	4837
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

SPARKLIZING CLEANERS AND LAUNDRY (Continued) **1000363676**

Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

CERS:
Name: SPARKLIZING CLEANERS
Address: 5200 MOWRY AVENUE
City,State,Zip: FREMONT, CA 94538
Site ID: 155667
CERS ID: SL0600199502
CERS Description: Cleanup Program Site

Violations:
Site ID: 155667
Site Name: Sparklizing Cleaners
Violation Date: 02-28-2017
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 02/28/2017. Owner/Operator failed to establish and implement a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Division: Fremont City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 155667
Site Name: Sparklizing Cleaners
Violation Date: 02-28-2017
Citation: 40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description: Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies.
Violation Notes: Returned to compliance on 03/08/2017. Failure to ensure employees are familiar with the handling and compliance of hazardous waste regulations and emergency response.
Violation Division: Fremont City Fire Department
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-28-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fremont City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-28-2017
Violations Found: Yes
Eval Type: Routine done by local agency

SPARKLIZING CLEANERS AND LAUNDRY (Continued) **1000363676**

Eval Notes: Not reported
Eval Division: Fremont City Fire Department
Eval Program: HW
Eval Source: CERS,

Coordinates:
Site ID: 155667
Facility Name: Sparklizing Cleaners
Env Int Type Code: HWG
Program ID: 10169049
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 37.533590
Longitude: -121.999340

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Fremont City Fire Department
Entity Title: Not reported
Affiliation Address: P.O. Box 5006
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94537-5006
Affiliation Phone: (510) 494-4279,

Affiliation Type Desc: Local Agency Caseworker
Entity Name: SELIM ZEYREK - ALAMEDA COUNTY WATER DISTRICT
Entity Title: Not reported
Affiliation Address: 43885 SOUTH GRIMMER BLVD
Affiliation City: FREMONT
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Property Owner
Entity Name: Stevenson Enterprises
Entity Title: Not reported
Affiliation Address: 5200 Mowry Ave, A
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94538
Affiliation Phone: (408) 453-4700,

Affiliation Type Desc: Document Preparer
Entity Name: Samuel Lee
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

SPARKLIZING CLEANERS AND LAUNDRY (Continued) **1000363676**

Affiliation Type Desc:	Environmental Contact
Entity Name:	Samuel Lee
Entity Title:	Not reported
Affiliation Address:	5200 Mowry Ave, A
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94538
Affiliation Phone:	,

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	5200 Mowry Ave, A
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94538
Affiliation Phone:	,

Affiliation Type Desc:	Identification Signer
Entity Name:	Samuel Lee
Entity Title:	Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	Hysl Inc
Entity Title:	Not reported
Affiliation Address:	5200 Mowry Ave, A
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 797-4632,

Affiliation Type Desc:	Parent Corporation
Entity Name:	Sparklizing Cleaners
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Cherie McCaulou - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY STREET, SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported

SPARKLIZING CLEANERS AND LAUNDRY (Continued) **1000363676**

Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Sparklizing Cleaners
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 797-4632,

Name: SPARKLIZING CLEANERS
Address: 5200 MOWRY AVENUE
City,State,Zip: FREMONT, CA 94538
Site ID: 155667
CERS ID: 10169049
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 155667
Site Name: Sparklizing Cleaners
Violation Date: 02-28-2017
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 02/28/2017. Owner/Operator failed to establish and implement a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Division: Fremont City Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 155667
Site Name: Sparklizing Cleaners
Violation Date: 02-28-2017
Citation: 40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description: Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies.
Violation Notes: Returned to compliance on 03/08/2017. Failure to ensure employees are familiar with the handling and compliance of hazardous waste regulations and emergency response.
Violation Division: Fremont City Fire Department
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-28-2017
Violations Found: Yes

SPARKLIZING CLEANERS AND LAUNDRY (Continued) **1000363676**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fremont City Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-28-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fremont City Fire Department
Eval Program: HW
Eval Source: CERS,

Coordinates:
Site ID: 155667
Facility Name: Sparklizing Cleaners
Env Int Type Code: HWG
Program ID: 10169049
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 37.533590
Longitude: -121.999340

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Fremont City Fire Department
Entity Title: Not reported
Affiliation Address: P.O. Box 5006
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94537-5006
Affiliation Phone: (510) 494-4279,

Affiliation Type Desc: Local Agency Caseworker
Entity Name: SELIM ZEYREK - ALAMEDA COUNTY WATER DISTRICT
Entity Title: Not reported
Affiliation Address: 43885 SOUTH GRIMMER BLVD
Affiliation City: FREMONT
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Property Owner
Entity Name: Stevenson Enterprises
Entity Title: Not reported
Affiliation Address: 5200 Mowry Ave, A
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94538
Affiliation Phone: (408) 453-4700,

SPARKLIZING CLEANERS AND LAUNDRY (Continued) **1000363676**

Affiliation Type Desc:	Document Preparer
Entity Name:	Samuel Lee
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Environmental Contact
Entity Name:	Samuel Lee
Entity Title:	Not reported
Affiliation Address:	5200 Mowry Ave, A
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94538
Affiliation Phone:	,

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	5200 Mowry Ave, A
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94538
Affiliation Phone:	,

Affiliation Type Desc:	Identification Signer
Entity Name:	Samuel Lee
Entity Title:	Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	Hysl Inc
Entity Title:	Not reported
Affiliation Address:	5200 Mowry Ave, A
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 797-4632,

Affiliation Type Desc:	Parent Corporation
Entity Name:	Sparklizing Cleaners
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

SPARKLIZING CLEANERS AND LAUNDRY (Continued) **1000363676**

Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Cherie McCaulou - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET, SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Sparklizing Cleaners
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 797-4632,

I66 **STEVENSON PROPERTIES** **CPS-SLIC** **S106234851**
ENE **5200 MOWRY AVE** **N/A**
1/4-1/2 **FREMONT, CA 94538**
0.413 mi.
2183 ft. **Site 2 of 2 in cluster I**

Relative:
Higher

Actual:
38 ft.

SLIC REG 2:
Region: 2
Facility ID: Not reported
Facility Status: Not reported
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

67
WNW
1/4-1/2
0.450 mi.
2377 ft.

DODGE PROPERTY
5625 ROBERTSON AVE
NEWARK, CA 94560

LUST
Cortese
HIST CORTESE
CERS

S102428859
N/A

Relative:
Higher

Actual:
32 ft.

LUST:

Name:	DODGE PROPERTY
Address:	5625 ROBERTSON AVENUE
City,State,Zip:	NEWARK, CA 94560
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101919
Global Id:	T0600101919
Latitude:	37.535116
Longitude:	-122.015978
Status:	Completed - Case Closed
Status Date:	01/21/1997
Case Worker:	UUU
RB Case Number:	01-2088
Local Agency:	ALAMEDA COUNTY WATER DISTRICT
File Location:	Not reported
Local Case Number:	0412
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0600101919
Contact Type:	Local Agency Caseworker
Contact Name:	SELIM ZEYREK
Organization Name:	ALAMEDA COUNTY WATER DISTRICT
Address:	43885 SOUTH GRIMMER BLVD
City:	FREMONT
Email:	selim.zeyrek@acwd.com
Phone Number:	Not reported

Global Id:	T0600101919
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101919
Action Type:	Other
Date:	09/01/1994
Action:	Leak Discovery

Global Id:	T0600101919
Action Type:	RESPONSE
Date:	01/13/1997
Action:	Request for Closure

Global Id:	T0600101919
Action Type:	ENFORCEMENT

DODGE PROPERTY (Continued) **S102428859**

Date: 01/21/1997
Action: Closure/No Further Action Letter

Global Id: T0600101919
Action Type: ENFORCEMENT
Date: 06/16/1995
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101919
Action Type: ENFORCEMENT
Date: 09/11/1998
Action: Clean Up Fund - Letter to RP

Global Id: T0600101919
Action Type: Other
Date: 09/01/1994
Action: Leak Reported

Global Id: T0600101919
Action Type: Other
Date: 09/01/1994
Action: Leak Stopped

LUST:
Global Id: T0600101919
Status: Open - Case Begin Date
Status Date: 09/01/1994

Global Id: T0600101919
Status: Open - Site Assessment
Status Date: 06/27/1995

Global Id: T0600101919
Status: Completed - Case Closed
Status Date: 01/21/1997

LUST REG 2:
Region: 2
Facility Id: 01-2088
Facility Status: Case Closed
Case Number: 0412
How Discovered: OM
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 6/27/1995
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CORTESE:
Name: DODGE PROPERTY

DODGE PROPERTY (Continued) **S102428859**

Address:	5625 ROBERTSON AVENUE
City,State,Zip:	NEWARK, CA 94560
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0600101919
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	DODGE PROPERTY
edr_fadd1:	5625 ROBERTSON
City,State,Zip:	NEWARK, CA 94560
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-2088

CERS:

Name:	DODGE PROPERTY
Address:	5625 ROBERTSON AVENUE
City,State,Zip:	NEWARK, CA 94560
Site ID:	197308
CERS ID:	T0600101919
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	SELIM ZEYREK - ALAMEDA COUNTY WATER DISTRICT
Entity Title:	Not reported
Affiliation Address:	43885 SOUTH GRIMMER BLVD
Affiliation City:	FREMONT
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND

DODGE PROPERTY (Continued) **S102428859**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

J68 **UNOCAL 7224** **LUST 1000167405**
ENE **5100 MOWRY AVE** **CERS N/A**
1/4-1/2 **FREMONT, CA 94536**
0.458 mi.
2418 ft. **Site 1 of 4 in cluster J**

Relative:
Higher

Actual:
40 ft.

LUST REG 2:
Region: 2
Facility Id: 01-1605
Facility Status: Remediation Plan
Case Number: 0127
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 5/23/1985
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 12/23/1986
Pollution Characterization Began: 1/30/1987
Pollution Remediation Plan Submitted: 9/1/1991
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CERS:
Name: UNOCAL 7224
Address: 5100 MOWRY AVE
City,State,Zip: FREMONT, CA 94536
Site ID: 251597
CERS ID: T0600101480
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: EILEEN CHEN - ALAMEDA COUNTY WATER DISTRICT
Entity Title: Not reported
Affiliation Address: 43885 SOUTH GRIMMER BLVD.
Affiliation City: FREMONT
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker
Entity Name: SIMERPREET MATHARU - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 clay Street, Suite 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 5106222339,

J69 **UNOCAL SERVICE STATION #7224** **LUST** **S101580191**
ENE **5100 MOWRY AVE** **SWEEPS UST** **N/A**
1/4-1/2 **FREMONT, CA 94536** **CA FID UST**
0.458 mi. **Cortese**
2418 ft. **Site 2 of 4 in cluster J** **HIST CORTESE**

Relative:
Higher

Actual:
40 ft.

LUST:

Name:	UNOCAL 7224
Address:	5100 MOWRY AVE
City,State,Zip:	FREMONT, CA 94536
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101480
Global Id:	T0600101480
Latitude:	37.5344268
Longitude:	-121.9989459
Status:	Open - Remediation
Status Date:	09/01/1991
Case Worker:	THC
RB Case Number:	01-1605
Local Agency:	ALAMEDA COUNTY WATER DISTRICT
File Location:	Not reported
Local Case Number:	TT0127
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	The site is located on the south side of Mowry Avenue, west of Blacow Road in Fremont, California. The site is a former 76-branded gasoline service station and a former wheel and tire shop. The site is bounded on the northwest by Mowry Avenue, on the northeast by a parking lot, on the southeast by a parking lot, and to the southwest by a Bank of the West-branded bank. The Los Arboles Shopping Center is located to the east of the site. The above-ground structures at the site consist of one former automotive shop that is still in use as a tire shop. All former underground storage tanks (USTs), dispenser islands, and product piping associated with gasoline sales were removed in January 1999. (09/23/2014 Well Replacement Work Plan)

LUST:

Global Id:	T0600101480
Contact Type:	Local Agency Caseworker
Contact Name:	EILEEN CHEN
Organization Name:	ALAMEDA COUNTY WATER DISTRICT
Address:	43885 SOUTH GRIMMER BLVD.
City:	FREMONT
Email:	eileen.chen@acwd.com
Phone Number:	Not reported

Global Id:	T0600101480
Contact Type:	Regional Board Caseworker
Contact Name:	TORREN CAMPBELL
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 Clay Street Suite 1400
City:	OAKLAND
Email:	torren.campbell@waterboards.ca.gov
Phone Number:	5106222470

LUST:

Global Id:	T0600101480
Action Type:	ENFORCEMENT

UNOCAL SERVICE STATION #7224 (Continued) **S101580191**

Date: 08/19/2020
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0600101480
Action Type: ENFORCEMENT
Date: 11/23/2016
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0600101480
Action Type: ENFORCEMENT
Date: 04/30/2020
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101480
Action Type: RESPONSE
Date: 01/15/1994
Action: Monitoring Report - Quarterly

Global Id: T0600101480
Action Type: ENFORCEMENT
Date: 12/18/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101480
Action Type: ENFORCEMENT
Date: 03/25/2009
Action: Notification - Public Notice of ROD/RAP/CAP

Global Id: T0600101480
Action Type: ENFORCEMENT
Date: 08/30/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101480
Action Type: ENFORCEMENT
Date: 11/19/2019
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101480
Action Type: Other
Date: 12/11/1985
Action: Leak Discovery

Global Id: T0600101480
Action Type: RESPONSE
Date: 01/15/1994
Action: Monitoring Report - Quarterly

Global Id: T0600101480
Action Type: RESPONSE
Date: 01/15/1995
Action: Monitoring Report - Quarterly

Global Id: T0600101480
Action Type: RESPONSE
Date: 03/31/2015
Action: Pilot Study / Treatability Workplan - Regulator Responded

UNOCAL SERVICE STATION #7224 (Continued) **S101580191**

Global Id:	T0600101480
Action Type:	RESPONSE
Date:	09/23/2014
Action:	Well Installation Workplan - Regulator Responded
Global Id:	T0600101480
Action Type:	RESPONSE
Date:	09/26/2019
Action:	Soil and Water Investigation Workplan - Regulator Responded
Global Id:	T0600101480
Action Type:	RESPONSE
Date:	10/30/2019
Action:	Other Workplan - Regulator Responded
Global Id:	T0600101480
Action Type:	RESPONSE
Date:	03/25/2020
Action:	Soil Vapor Intrusion Investigation Workplan - Regulator Responded
Global Id:	T0600101480
Action Type:	REMEDIATION
Date:	06/10/2003
Action:	Soil Vapor Extraction (SVE)
Global Id:	T0600101480
Action Type:	REMEDIATION
Date:	05/01/1991
Action:	Free Product Removal
Global Id:	T0600101480
Action Type:	REMEDIATION
Date:	03/01/1994
Action:	Soil Vapor Extraction (SVE)
Global Id:	T0600101480
Action Type:	ENFORCEMENT
Date:	06/27/1988
Action:	* Historical Enforcement
Global Id:	T0600101480
Action Type:	ENFORCEMENT
Date:	06/26/2014
Action:	File review
Global Id:	T0600101480
Action Type:	RESPONSE
Date:	10/04/1995
Action:	Monitoring Report - Quarterly
Global Id:	T0600101480
Action Type:	RESPONSE
Date:	08/03/1994
Action:	Unauthorized Release Form
Global Id:	T0600101480
Action Type:	RESPONSE

UNOCAL SERVICE STATION #7224 (Continued) **S101580191**

Date: 01/06/1995
Action: Monitoring Report - Quarterly

Global Id: T0600101480
Action Type: RESPONSE
Date: 04/15/1994
Action: Monitoring Report - Quarterly

Global Id: T0600101480
Action Type: ENFORCEMENT
Date: 08/13/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101480
Action Type: ENFORCEMENT
Date: 02/13/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101480
Action Type: Other
Date: 12/11/1985
Action: Leak Reported

Global Id: T0600101480
Action Type: RESPONSE
Date: 01/24/1995
Action: Other Report / Document

Global Id: T0600101480
Action Type: ENFORCEMENT
Date: 12/07/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101480
Action Type: ENFORCEMENT
Date: 08/02/2019
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101480
Action Type: ENFORCEMENT
Date: 08/28/2019
Action: Verbal Communication

Global Id: T0600101480
Action Type: ENFORCEMENT
Date: 04/14/2020
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101480
Action Type: Other
Date: 12/11/1985
Action: Leak Stopped

Global Id: T0600101480
Action Type: RESPONSE
Date: 02/02/1994
Action: Monitoring Report - Quarterly

UNOCAL SERVICE STATION #7224 (Continued) **S101580191**

Global Id: T0600101480
Action Type: RESPONSE
Date: 02/01/1993
Action: Monitoring Report - Quarterly

Global Id: T0600101480
Action Type: RESPONSE
Date: 07/15/1993
Action: Monitoring Report - Quarterly

Global Id: T0600101480
Action Type: ENFORCEMENT
Date: 07/31/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101480
Action Type: ENFORCEMENT
Date: 08/11/2009
Action: Technical Correspondence / Assistance / Other

LUST:
Global Id: T0600101480
Status: Open - Case Begin Date
Status Date: 05/23/1985

Global Id: T0600101480
Status: Open - Site Assessment
Status Date: 05/23/1985

Global Id: T0600101480
Status: Open - Site Assessment
Status Date: 12/23/1986

Global Id: T0600101480
Status: Open - Site Assessment
Status Date: 01/30/1987

Global Id: T0600101480
Status: Open - Remediation
Status Date: 09/01/1991

SWEEPS UST:
Name: UNOCAL SERVICE STATION #7224
Address: 5100 MOWRY AVE
City: FREMONT
Status: Active
Comp Number: 977
Number: 1
Board Of Equalization: 44-001057
Referral Date: 01-18-92
Action Date: 11-08-93
Created Date: 09-18-91
Owner Tank Id: 1
SWRCB Tank Id: 01-009-000977-000001
Tank Status: A

UNOCAL SERVICE STATION #7224 (Continued) **S101580191**

Capacity: 12000
Active Date: 06-22-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 2

Name: UNOCAL SERVICE STATION #7224
Address: 5100 MOWRY AVE
City: FREMONT
Status: Active
Comp Number: 977
Number: 1
Board Of Equalization: 44-001057
Referral Date: 01-18-92
Action Date: 11-08-93
Created Date: 09-18-91
Owner Tank Id: 2
SWRCB Tank Id: 01-009-000977-000002
Tank Status: A
Capacity: 12000
Active Date: 06-22-93
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

Name: TARGET STORES INC.
Address: 5100 MOWRY AVE
City: FREMONT
Status: Not reported
Comp Number: 974
Number: Not reported
Board Of Equalization: 44-035498
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-009-000974-000001
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: WASTE OIL
Number Of Tanks: 1

CA FID UST:
Facility ID: 01001712
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 5100 MOWRY AVE
Mailing Address 2: Not reported

UNOCAL SERVICE STATION #7224 (Continued) **S101580191**

Mailing City,St,Zip: FREMONT 94538
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CORTESE:
Name: UNOCAL 7224
Address: 5100 MOWRY AVE
City,State,Zip: FREMONT, CA 94536
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600101480
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: OPEN - REMEDIATION
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: UNOCAL
edr_fadd1: 5100 MOWRY
City,State,Zip: FREMONT, CA
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1605

J70 **STAR DRY CLEANERS** **RCRA-SQG** **1000174462**
ENE **5133 MOWRY AVENUE** **CPS-SLIC** **CAD981580509**
1/4-1/2 **FREMONT, CA 94536** **FINDS**
0.479 mi. **ECHO**
2529 ft. **Site 3 of 4 in cluster J** **HAZNET**
HWTS

Relative:
Higher

Actual:
41 ft.

RCRA-SQG:
Date Form Received by Agency: 19861125
Handler Name: DRYCLEAN USA
Handler Address: 5133 MOWRY
Handler City,State,Zip: FREMONT, CA 94538
EPA ID: CAD981580509

STAR DRY CLEANERS (Continued) **1000174462**

Contact Name:	ENVIRONMENTAL MANAGER
Contact Address:	5133 MOWRY
Contact City,State,Zip:	FREMONT, CA 94538
Contact Telephone:	415-797-5936
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Other
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	2
Mailing Address:	5133 MOWRY AVE
Mailing City,State,Zip:	FREMONT, CA 94538
Owner Name:	MARTIN MIRANDA
Owner Type:	Private
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No

STAR DRY CLEANERS (Continued) **1000174462**

Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MARTIN MIRANDA
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19861125
Handler Name: DRYCLEAN USA	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

STAR DRY CLEANERS (Continued) **1000174462**

Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

CPS-SLIC:

Name:	STAR CLEANERS
Address:	5133 MOWRY AVENUE
City,State,Zip:	FREMONT, CA 94536
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	12/29/2000
Global Id:	SL0600132373
Lead Agency:	ALAMEDA COUNTY WATER DISTRICT
Lead Agency Case Number:	0649
Latitude:	37.5349999
Longitude:	-121.9996458
Case Type:	Cleanup Program Site
Case Worker:	SZ
Local Agency:	ALAMEDA COUNTY WATER DISTRICT
RB Case Number:	01S0549
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

FINDS:
Registry ID: 110064263229

Click Here:

Environmental Interest/Information System:
HAZARDOUS AIR POLLUTANT MAJOR
Registry ID: 110001165391

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STAR DRY CLEANERS (Continued) **1000174462**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000174462
Registry ID:	110001165391
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110001165391
Name:	DRYCLEAN USA
Address:	5133 MOWRY
City,State,Zip:	FREMONT, CA 94538

HAZNET:

Name:	DRYCLEAN USA
Address:	5133 MOWRY
Address 2:	Not reported
City,State,Zip:	FREMONT, CA 945380000
Contact:	BUS. SLD 12/1/95
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	5133 MOWRY AVE
Year:	1999
Gepaid:	CAD981580509
TSD EPA ID:	CA0000084517
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	H01 - Transfer Station
Tons:	0.06
Year:	1996
Gepaid:	CAD981580509
TSD EPA ID:	CAD053044053
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	H01 - Transfer Station
Tons:	0.0975
Year:	1995
Gepaid:	CAD981580509
TSD EPA ID:	CAD053044053
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	H01 - Transfer Station
Tons:	0.09
Year:	1994
Gepaid:	CAD981580509
TSD EPA ID:	CAD053044053
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	H01 - Transfer Station
Tons:	0.09
Year:	1987
Gepaid:	CAD981580509
TSD EPA ID:	CAD980737584
CA Waste Code:	211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method:	14 -
Tons:	0.06

STAR DRY CLEANERS (Continued) **1000174462**

Additional Info:

Year:	1999
Gen EPA ID:	CAD981580509
Shipment Date:	19990407
Creation Date:	5/20/1999 0:00:00
Receipt Date:	19990412
Manifest ID:	98864451
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1995
Gen EPA ID:	CAD981580509
Shipment Date:	19951107
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951107
Manifest ID:	95754970
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

STAR DRY CLEANERS (Continued) **1000174462**

Shipment Date:	19950810
Creation Date:	4/2/1996 0:00:00
Receipt Date:	19950810
Manifest ID:	95633721
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950519
Creation Date:	10/24/1995 0:00:00
Receipt Date:	19950519
Manifest ID:	95518002
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1996
Gen EPA ID:	CAD981580509

Shipment Date:	19960119
Creation Date:	10/16/1996 0:00:00
Receipt Date:	19960119
Manifest ID:	95829772
Trans EPA ID:	ILD984908202

STAR DRY CLEANERS (Continued) **1000174462**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1994
Gen EPA ID:	CAD981580509
Shipment Date:	19941212
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941212
Manifest ID:	95075408
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940822
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940822
Manifest ID:	93466484
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported

STAR DRY CLEANERS (Continued) **1000174462**

TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940315
Creation Date:	10/5/1995 0:00:00
Receipt Date:	19940315
Manifest ID:	92534289
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	DRYCLEAN USA
Address:	5133 MOWRY
Address 2:	Not reported
City,State,Zip:	FREMONT, CA 945380000
EPA ID:	CAD981580509
Inactive Date:	01/01/1900
Create Date:	04/10/1987
Last Act Date:	08/10/2004
Mailing Name:	Not reported
Mailing Address:	5133 MOWRY AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	FREMONT, CA 945380000
Owner Name:	--
Owner Address:	--
Owner Address 2:	Not reported
Owner City,State,Zip:	--, 99 --
Contact Name:	BUS. SLD 12/1/95
Contact Address:	--

STAR DRY CLEANERS (Continued) **1000174462**

Contact Address 2: Not reported
City,State,Zip: --, 99 --

J71 **STAR CLEANERS** **CPS-SLIC** **S106234849**
ENE **5133 MOWRY AVENUE** **CERS** **N/A**
1/4-1/2 **FREMONT, CA 94536**
0.479 mi.
2529 ft. **Site 4 of 4 in cluster J**

Relative:
Higher

Actual:
41 ft.

SLIC REG 2:
Region: 2
Facility ID: Not reported
Facility Status: Case Closed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CERS:
Name: STAR CLEANERS
Address: 5133 MOWRY AVENUE
City,State,Zip: FREMONT, CA 94536
Site ID: 227515
CERS ID: SL0600132373
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: SELIM ZEYREK - ALAMEDA COUNTY WATER DISTRICT
Entity Title: Not reported
Affiliation Address: 43885 SOUTH GRIMMER BLVD
Affiliation City: FREMONT
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

72
SSE
1/2-1
0.594 mi.
3136 ft.

JC CLEANERS
39253 CEDAR BLVD.
NEWARK, CA 94560

ENVIROSTOR
VCP

S118757330
N/A

Relative:
Lower

Actual:
25 ft.

ENVIROSTOR:

Name:	JC CLEANERS
Address:	39253 CEDAR BLVD.
City,State,Zip:	NEWARK, CA 94560
Facility ID:	60002382
Status:	Active
Status Date:	06/24/2016
Site Code:	202103
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	2.14
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Yongsheng (Johnny) Sun
Supervisor:	John Karachewski
Division Branch:	Cleanup Berkeley
Assembly:	, 25
Senate:	, 10
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.52277
Longitude:	-122.0037
APN:	901 018801400, 901-188-14
Past Use:	DRY CLEANING
Potential COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE 1,2-Dichloroethylene (cis
Confirmed COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE 1,2-Dichloroethylene (cis
Potential Description:	IA, SV
Alias Name:	901 018801400
Alias Type:	APN
Alias Name:	901-188-14
Alias Type:	APN
Alias Name:	202103
Alias Type:	Project Code (Site Code)
Alias Name:	60002382
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/09/2017
Comments:	Annual Oversight Cost Estimate letter with enclosures (Activity Schedule and Cost Estimate) of DTSC oversight for 2017/2018 Fiscal Year.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/01/2018

JC CLEANERS (Continued) **S118757330**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/09/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/02/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/10/2021
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/28/2018
Comments: Notification of Change in DTSC Project Manager as of April 2, 2018.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 06/23/2016
Comments: In March 2016, Alameda County Water District referred this case to DTSC and SWRQB, due to elevated PCE in soil vapor and sub-slab soil gas. In June 2016, DTSC accepted the Request for Agency Oversight Application , dated 4/11/2016, and submitted by Shamco Management Co., LLC, for JC Cleaners, located at 39253 Cedar Blvd. Newark CA 94560, owned by Shamco Investments, A CA General Partnership.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/03/2016
Comments: Historic Reports 2003-2016: 2003 Report of Phase II Environmental Site Assessment, 2010 Groundwater Well Installation and Monitoring Report, 2010-2011 Quarterly Groundwater Monitoring Reports, 2011 Soil Vapor Assessment Report, 2012 Closure Denial by Alameda County Water District, 2013 Sub-Slab Soil Gas Survey Report, 2016 Soil Vapor Assessment Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 06/23/2017
Comments: The PEA Workplan, dated June 2017, outlines and details the plan to collect and analyze three soil vapor samples from the Site at locations near the eastern and western boundaries, and the rear of the JC Cleaners tenant space. Additionally, the plan includes the collection of one indoor air sample and one groundwater sample. The

JC CLEANERS (Continued) **S118757330**

purpose of the PEA is to define the area of the Site to be restricted by a Land Use Covenant to address volatile organic compounds (VOCs) in soil vapor in the dry-cleaning area of JC Cleaners. A PEA Report, presenting the results of the soil vapor investigation and including previous site assessment information, will be prepared and submitted to DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/30/2017
Comments: Fieldwork for Preliminary Endangerment Assessment (PEA)

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 09/12/2016
Comments: This Voluntary Cleanup Agreement, executed September 12, 2016, applies to the property located at 39253 Cedar Blvd., Newark, in Alameda County, California 94560 (Site), identified by Alameda County Assessor's Parcel Numbers 901-188-14, and any off-site area to which hazardous substances have or may have migrated from the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/13/2019
Comments: DTSC subsequently requested that soil vapor and indoor air be sampled from the Site and adjoining tenant spaces to assess the extent of soil vapor contamination and to characterize the risk to onsite and nearby receptors.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Supplemental Site Investigation Report
Schedule Due Date: 12/30/2021
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedial Investigation Report
Schedule Due Date: 12/20/2021
Schedule Revised Date: Not reported

VCP:
Name: JC CLEANERS
Address: 39253 CEDAR BLVD.
City,State,Zip: NEWARK, CA 94560
Facility ID: 60002382
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 2.14
National Priorities List: NO

JC CLEANERS (Continued) **S118757330**

Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Yongsheng (Johnny) Sun
Supervisor:	John Karachewski
Division Branch:	Cleanup Berkeley
Site Code:	202103
Assembly:	, 25
Senate:	, 10
Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	06/24/2016
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.52277 / -122.0037
APN:	901 018801400, 901-188-14
Past Use:	DRY CLEANING
Potential COC:	30022, 30027, 30195
Confirmed COC:	30022,30027,30195
Potential Description:	IA, SV
Alias Name:	901 018801400
Alias Type:	APN
Alias Name:	901-188-14
Alias Type:	APN
Alias Name:	202103
Alias Type:	Project Code (Site Code)
Alias Name:	60002382
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/09/2017
Comments:	Annual Oversight Cost Estimate letter with enclosures (Activity Schedule and Cost Estimate) of DTSC oversight for 2017/2018 Fiscal Year.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/01/2018
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/09/2019
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/02/2020
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

JC CLEANERS (Continued) **S118757330**

Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/10/2021
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/28/2018
Comments: Notification of Change in DTSC Project Manager as of April 2, 2018.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 06/23/2016
Comments: In March 2016, Alameda County Water District referred this case to DTSC and SWRQB, due to elevated PCE in soil vapor and sub-slab soil gas. In June 2016, DTSC accepted the Request for Agency Oversight Application , dated 4/11/2016, and submitted by Shamco Management Co., LLC, for JC Cleaners, located at 39253 Cedar Blvd. Newark CA 94560, owned by Shamco Investments, A CA General Partnership.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/03/2016
Comments: Historic Reports 2003-2016: 2003 Report of Phase II Environmental Site Assessment, 2010 Groundwater Well Installation and Monitoring Report, 2010-2011 Quarterly Groundwater Monitoring Reports, 2011 Soil Vapor Assessment Report, 2012 Closure Denial by Alameda County Water District, 2013 Sub-Slab Soil Gas Survey Report, 2016 Soil Vapor Assessment Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 06/23/2017
Comments: The PEA Workplan, dated June 2017, outlines and details the plan to collect and analyze three soil vapor samples from the Site at locations near the eastern and western boundaries, and the rear of the JC Cleaners tenant space. Additionally, the plan includes the collection of one indoor air sample and one groundwater sample. The purpose of the PEA is to define the area of the Site to be restricted by a Land Use Covenant to address volatile organic compounds (VOCs) in soil vapor in the dry-cleaning area of JC Cleaners. A PEA Report, presenting the results of the soil vapor investigation and including previous site assessment information, will be prepared and submitted to DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/30/2017
Comments: Fieldwork for Preliminary Endangerment Assessment (PEA)

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement

JC CLEANERS (Continued) **S118757330**

Completed Date:	09/12/2016
Comments:	This Voluntary Cleanup Agreement, executed September 12, 2016, applies to the property located at 39253 Cedar Blvd., Newark, in Alameda County, California 94560 (Site), identified by Alameda County Assessor's Parcel Numbers 901-188-14, and any off-site area to which hazardous substances have or may have migrated from the Site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	11/13/2019
Comments:	DTSC subsequently requested that soil vapor and indoor air be sampled from the Site and adjoining tenant spaces to assess the extent of soil vapor contamination and to characterize the risk to onsite and nearby receptors.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Supplemental Site Investigation Report
Schedule Due Date:	12/30/2021
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Remedial Investigation Report
Schedule Due Date:	12/20/2021
Schedule Revised Date:	Not reported

73
WSW
1/2-1
0.679 mi.
3583 ft.

POMEGRANATE PROPERTY **ENVIROSTOR** **S127459711**
6250 POMEGRANATE AVENUE AND 6147, 6163, 6179 ROBERTSON AVENU **VCP** **N/A**
NEWARK, CA 94560

Relative:
Lower

Actual:
26 ft.

ENVIROSTOR:

Name:	POMEGRANATE PROPERTY
Address:	6250 POMEGRANATE AVENUE AND 6147, 6163, 6179 ROBERTSON AVENUE
City,State,Zip:	NEWARK, CA 94560
Facility ID:	60003107
Status:	Active
Status Date:	01/01/2021
Site Code:	202358
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	3.6
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Elizabeth Chung-Huynh
Supervisor:	John Karachewski
Division Branch:	Cleanup Berkeley
Assembly:	, 25
Senate:	, 10
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO

POMEGRANATE PROPERTY (Continued) **S127459711**

Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.53058
Longitude: -122.0211
APN: 092A214110200, 092A214304002, 092A214304100, 092A214304200
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 092A214110200
Alias Type: APN
Alias Name: 092A214304002
Alias Type: APN
Alias Name: 092A214304100
Alias Type: APN
Alias Name: 092A214304200
Alias Type: APN
Alias Name: 202358
Alias Type: Project Code (Site Code)
Alias Name: 60003107
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 05/21/2021
Comments: Final Executed Standard Voluntary Agreement, signed by Branch Chief

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 06/11/2021
Comments: Pre-HARP signed by supervisor and alternative supervisor

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 10/01/2021
Comments: Historically, the site was used as orchards prior to residential construction. Soil impacted with arsenic, lead and organochlorine pesticides from the agricultural activities and former buildings was removed and disposed off-site prior to entering into a Standard Voluntary Agreement with DTSC. In June 2021, additional soil samples were collected, under DTSC s oversight, in the northwestern portion of the site to address data gaps identified from previous investigations. The analytical data for confirmation samples and additional characterization samples were below the residential screening levels. DTSC determined that no further action is adequate for the site at this time.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/10/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE

POMEGRANATE PROPERTY (Continued) **S127459711**

Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 05/05/2021
Comments: Phase I has been reviewed for the purpose of obtaining information to write the Standard Voluntary Agreement (SVA).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/01/2021
Comments: Historically, the site was used as orchards prior to residential construction. Soil impacted with arsenic, lead and organochlorine pesticides from the agricultural activities and former buildings was removed and disposed off-site prior to entering into a Standard Voluntary Agreement with DTSC. In June 2021, additional soil samples were collected, under DTSC s oversight, in the northwestern portion of the site to address data gaps identified from previous investigations. The analytical data for confirmation samples and additional characterization samples were below the residential screening levels. DTSC determined that no further action is required for the site at this time.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/30/2021
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Name: POMEGRANATE PROPERTY
Address: 6250 POMEGRANATE AVENUE AND 6147, 6163, 6179 ROBERTSON AVENUE
City,State,Zip: NEWARK, CA 94560
Facility ID: 60003107
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 3.6
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Elizabeth Chung-Huynh
Supervisor: John Karachewski
Division Branch: Cleanup Berkeley
Site Code: 202358
Assembly: , 25
Senate: , 10

POMEGRANATE PROPERTY (Continued) **S127459711**

Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	01/01/2021
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.53058 / -122.0211
APN:	092A214110200, 092A214304002, 092A214304100, 092A214304200
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	092A214110200
Alias Type:	APN
Alias Name:	092A214304002
Alias Type:	APN
Alias Name:	092A214304100
Alias Type:	APN
Alias Name:	092A214304200
Alias Type:	APN
Alias Name:	202358
Alias Type:	Project Code (Site Code)
Alias Name:	60003107
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Standard Voluntary Agreement
Completed Date:	05/21/2021
Comments:	Final Executed Standard Voluntary Agreement, signed by Branch Chief

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pre-HARP Form
Completed Date:	06/11/2021
Comments:	Pre-HARP signed by supervisor and alternative supervisor

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	No Further Action Letter
Completed Date:	10/01/2021
Comments:	Historically, the site was used as orchards prior to residential construction. Soil impacted with arsenic, lead and organochlorine pesticides from the agricultural activities and former buildings was removed and disposed off-site prior to entering into a Standard Voluntary Agreement with DTSC. In June 2021, additional soil samples were collected, under DTSC s oversight, in the northwestern portion of the site to address data gaps identified from previous investigations. The analytical data for confirmation samples and additional characterization samples were below the residential screening levels. DTSC determined that no further action is adequate for the site at this time.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/10/2021
Comments:	Not reported

POMEGRANATE PROPERTY (Continued) **S127459711**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	05/05/2021
Comments:	Phase I has been reviewed for the purpose of obtaining information to write the Standard Voluntary Agreement (SVA).

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	10/01/2021
Comments:	Historically, the site was used as orchards prior to residential construction. Soil impacted with arsenic, lead and organochlorine pesticides from the agricultural activities and former buildings was removed and disposed off-site prior to entering into a Standard Voluntary Agreement with DTSC. In June 2021, additional soil samples were collected, under DTSC s oversight, in the northwestern portion of the site to address data gaps identified from previous investigations. The analytical data for confirmation samples and additional characterization samples were below the residential screening levels. DTSC determined that no further action is required for the site at this time.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	06/30/2021
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

K74 **PETERBILT MOTORS CO** **SEMS-ARCHIVE** **1000214436**
SSW **38801 CHERRY ST** **CORRACTS** **CAD009120734**
1/2-1 **NEWARK, CA 94560** **RCRA-TSDF**
0.703 mi. **RCRA-SQG**
3712 ft. **Site 1 of 2 in cluster K** **ENVIROSTOR**
HIST UST
Relative: Lower **Cortese**
ENF
Actual: 23 ft. **HIST CORTESE**

SEMS Archive:

Site ID:	0900418
EPA ID:	CAD009120734
Name:	PETERBILT MOTORS
Address:	38801 CHERRY STREET
Address 2:	Not reported
City,State,Zip:	NEWARK, CA 94560
Cong District:	10
FIPS Code:	06001

PETERBILT MOTORS CO (Continued) **1000214436**

FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:
Region: 09
Site ID: 0900418
EPA ID: CAD009120734
Site Name: PETERBILT MOTORS
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1990-05-14 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0900418
EPA ID: CAD009120734
Site Name: PETERBILT MOTORS
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1988-01-01 05:00:00
Finish Date: 1988-01-01 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0900418
EPA ID: CAD009120734
Site Name: PETERBILT MOTORS
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1990-05-14 04:00:00
Qual: N
Current Action Lead: EPA Perf

CORRACTS:
Name: PETERBILT MOTORS CO
Address: 38801 CHERRY ST
Address 2: Not reported
EPA ID: CAD009120734
Area Name: ENTIRE FACILITY

PETERBILT MOTORS CO (Continued) **1000214436**

Corrective Action: RFA COMPLETED
Actual Date: 19980530
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: PETERBILT MOTORS CO
Address: 38801 CHERRY ST
Address 2: Not reported
EPA ID: CAD009120734
Area Name: ENTIRE FACILITY
Corrective Action: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NOT NECESSARY
Actual Date: 19980530
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

RCRA-SQG:
Date Form Received by Agency: 19921203
Handler Name: PETERBILT MOTORS CO
Handler Address: 38801 CHERRY ST
Handler City,State,Zip: NEWARK, CA 94560
EPA ID: CAD009120734
Contact Name: Not reported
Contact Address: Not reported
Contact City,State,Zip: Not reported
Contact Telephone: Not reported
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Small Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: CA
State District: 2
Mailing Address: 38801 CHERRY STREET
Mailing City,State,Zip: NEWARK, CA 94560
Owner Name: Not reported
Owner Type: Not reported
Operator Name: PETERBILT MOTORS COMPANY
Operator Type: Private
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No
Underground Injection Control: No

PETERBILT MOTORS CO (Continued) **1000214436**

Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Land Disposal, Storage
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Land Disposal, Storage
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	Yes
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PETERBILT MOTORS COMPANY
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38801 CHERRY STREET
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	415-796-2026

PETERBILT MOTORS CO (Continued) **1000214436**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: PETERBILT MOTORS COMPANY
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 38801 CHERRY STREET
Owner/Operator City,State,Zip: CITY NOT REPORTED, CA 99999
Owner/Operator Telephone: 415-796-2026
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19921203
Handler Name: PETERBILT MOTORS CO
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19800721
Handler Name: PETERBILT MOTORS CO
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 336211
NAICS Description: MOTOR VEHICLE BODY MANUFACTURING

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19890926
Actual Return to Compliance Date: 19900910
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported

PETERBILT MOTORS CO (Continued) **1000214436**

Enforcement Identifier:	001
Date of Enforcement Action:	19900126
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R9
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported

PETERBILT MOTORS CO (Continued) **1000214436**

SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19890926
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900910
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19890911
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

PETERBILT MOTORS CO (Continued) **1000214436**

RCRA-SQG:

Date Form Received by Agency:		19921203
Handler Name:	PETERBILT MOTORS CO	
Handler Address:		38801 CHERRY ST
Handler City,State,Zip:		NEWARK, CA 94560
EPA ID:		CAD009120734
Contact Name:		Not reported
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA
State District:		2
Mailing Address:		38801 CHERRY STREET
Mailing City,State,Zip:		NEWARK, CA 94560
Owner Name:		Not reported
Owner Type:		Not reported
Operator Name:		PETERBILT MOTORS COMPANY
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Land Disposal, Storage
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Land Disposal, Storage
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported

PETERBILT MOTORS CO (Continued) **1000214436**

202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	Yes
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PETERBILT MOTORS COMPANY
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38801 CHERRY STREET
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	415-796-2026
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	PETERBILT MOTORS COMPANY
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	38801 CHERRY STREET
Owner/Operator City,State,Zip:	CITY NOT REPORTED, CA 99999
Owner/Operator Telephone:	415-796-2026
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19921203
Handler Name:	PETERBILT MOTORS CO

PETERBILT MOTORS CO (Continued) **1000214436**

Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19800721
Handler Name: PETERBILT MOTORS CO	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	336211
NAICS Description:	MOTOR VEHICLE BODY MANUFACTURING

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19890926
Actual Return to Compliance Date:	19900910
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19900126
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R9
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	R9
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported

PETERBILT MOTORS CO (Continued) **1000214436**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19890926
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19900910

PETERBILT MOTORS CO (Continued) **1000214436**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19890911
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

PETERBILT MOTORS CO (Continued) **1000214436**

ENVIROSTOR:

Name:	PETERBUILT MOTORS
Address:	38801 CHERRY STREET
City,State,Zip:	NEWARK, CA 94560
Facility ID:	1500034
Status:	Refer: RWQCB
Status Date:	06/08/1994
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	RWQCB 2 - San Francisco Bay
Lead Agency:	RWQCB 2 - San Francisco Bay
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Berkeley
Assembly:	25
Senate:	10
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.52187
Longitude:	-122.0143
APN:	92A-2500-1-13
Past Use:	NONE SPECIFIED
Potential COC:	* HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS * WASTE OIL & MIXED OIL Not reported
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Name:	PACCAR INC
Address:	38801 CHERRY STREET
City,State,Zip:	NEWARK, CA 945600000
Facility ID:	80001595
Status:	Refer: RWQCB
Status Date:	06/08/1994

PETERBILT MOTORS CO (Continued) **1000214436**

Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: WM
Program Manager: Not reported
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Assembly: 25
Senate: 10
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.52187
Longitude: -122.0143
APN: 92A-2500-1-13
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: PETERBUILT MOTORS
Alias Type: Alternate Name
Alias Name: 92A-2500-1-13
Alias Type: APN
Alias Name: CAD009120734
Alias Type: EPA Identification Number
Alias Name: SL0600113744
Alias Type: GeoTracker Global ID
Alias Name: 01500034
Alias Type: Envirostor ID Number
Alias Name: 80001595
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 05/30/1998
Comments: RCRA Facility Assessment Completed, site formerly known as Peterbilt Motors The SWMUs and AOCs identified at the former Peterbilt Motors facility in Newark California have been either remediated, closed under the authority of a regulatory agency (i e DISC DHS, City of Newark) or did not require any remediation activities because no releases to the environment occurred Additionally, the groundwater extraction and treatment system, which began operation in 1991 with oversight by the San Francisco Regional Water Quality Control Board, addressed the remediation of the groundwater contamination which resulted 1rom the operation of the facility. As a result of these previous remediation activities, there is no need for further action, at this facility, by the Department of Toxic Substances Control, under RCRA Corrective Action

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report

PETERBILT MOTORS CO (Continued) **1000214436**

Completed Date: 04/16/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 05/30/1998
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HIST UST:
Name: PETERBILD MOTORS COMPANY
Address: 38801 CHERRY ST
City,State,Zip: NEWARK, CA 94560
File Number: 000361E4
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000361E4.pdf
Region: STATE
Facility ID: 00000021321
Facility Type: Other
Other Type: MANUFACTURER
Contact Name: DAVID HOVIND
Telephone: 4157904062
Owner Name: PACCAR INTERNATIONAL, INC.
Owner Address: 777-106TH AVE. N.E.
Owner City,St,Zip: BELLEVUE, WA 98004
Total Tanks: 0022

Tank Num: 001
Container Num: T1
Year Installed: 1960
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Groundwater Monitoring Well

Tank Num: 002
Container Num: T2
Year Installed: 1960
Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Groundwater Monitoring Well

Tank Num: 003
Container Num: T3
Year Installed: 1960

PETERBILT MOTORS CO (Continued) **1000214436**

Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Groundwater Monitoring Well

Tank Num: 004
Container Num: T4
Year Installed: 1960
Tank Capacity: 00008000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Groundwater Monitoring Well

Tank Num: 005
Container Num: T5
Year Installed: 1964
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Groundwater Monitoring Well

Tank Num: 006
Container Num: T6
Year Installed: 1964
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Groundwater Monitoring Well

Tank Num: 007
Container Num: T7
Year Installed: 1964
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Groundwater Monitoring Well

Tank Num: 008
Container Num: B8
Year Installed: 1974
Tank Capacity: 00000100
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 009
Container Num: T9
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported

PETERBILT MOTORS CO (Continued) **1000214436**

Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 010
Container Num: T10
Year Installed: 1974
Tank Capacity: 00000478
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: None

Tank Num: 011
Container Num: PB1
Year Installed: 1960
Tank Capacity: 00004188
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 012
Container Num: PB2
Year Installed: 1972
Tank Capacity: 00006912
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: None

Tank Num: 013
Container Num: PB-3
Year Installed: 1982
Tank Capacity: 00005684
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: None

Tank Num: 014
Container Num: PB-4
Year Installed: 1960
Tank Capacity: 00008616
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 015
Container Num: PB5
Year Installed: 1960
Tank Capacity: 00008616
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

PETERBILT MOTORS CO (Continued) **1000214436**

Tank Num:	016
Container Num:	S1
Year Installed:	1974
Tank Capacity:	00000471
Tank Used for:	WASTE
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	017
Container Num:	S2
Year Installed:	1980
Tank Capacity:	00001144
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	4
Leak Detection:	None

Tank Num:	018
Container Num:	S3 (SERIES
Year Installed:	1974
Tank Capacity:	00001316
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	6
Leak Detection:	None

Tank Num:	019
Container Num:	S4 (SERIES
Year Installed:	1960
Tank Capacity:	00005980
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	020
Container Num:	S5
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	4
Leak Detection:	None

Tank Num:	021
Container Num:	S6
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	022
Container Num:	S7 (SERIES
Year Installed:	1974

PETERBILT MOTORS CO (Continued) **1000214436**

Tank Capacity: 00000261
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 4
Leak Detection: None

Click here for Geo Tracker PDF:

CORTESE:
Name: PETERBILT MOTORS CO
Address: 38801 CHERRY
City,State,Zip: NEWARK, CA 94560
Region: CORTESE
Envirostor Id: Not reported
Global ID: Not reported
Site/Facility Type: Not reported
Cleanup Status: Not reported
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: CORTESE
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: 2
WID Id: 2 019128N01
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Cease Desist Orders & Cleanup Abatement Orders

ENF:
Name: PETERBILT MOTORS CO
Address: 38801 CHERRY
City,State,Zip: NEWARK, CA 94560
Region: 2
Facility Id: 248121
Agency Name: PACCAR, Inc.
Place Type: Facility
Place Subtype: Not reported
Facility Type: All other facilities
Agency Type: Privately-Owned Business
Of Agencies: 1
Place Latitude: 37.522414
Place Longitude: -122.013416
SIC Code 1: 4212
SIC Desc 1: Local Trucking Without Storage
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: Not reported
NAICS Desc 1: Not reported

PETERBILT MOTORS CO (Continued) **1000214436**

NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 019128N01
Reg Measure Id:	162032
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	223162
Region:	2
Order / Resolution Number:	93-150
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	11/19/1993
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 019128N01

PETERBILT MOTORS CO (Continued) **1000214436**

Description:	SCR-AMENDMENT.
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Name:	PETERBILT MOTORS CO
Address:	38801 CHERRY
City,State,Zip:	NEWARK, CA 94560
Region:	2
Facility Id:	248121
Agency Name:	PACCAR, Inc.
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.522414
Place Longitude:	-122.013416
SIC Code 1:	4212
SIC Desc 1:	Local Trucking Without Storage
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 019128N01
Reg Measure Id:	162032
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported

PETERBILT MOTORS CO (Continued) **1000214436**

Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	222152
Region:	2
Order / Resolution Number:	97-114
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	09/17/1997
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 2 019128N01
Description:	CAO-
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Name:	PETERBILT MOTORS CO
Address:	38801 CHERRY
City,State,Zip:	NEWARK, CA 94560
Region:	2
Facility Id:	248121
Agency Name:	PACCAR, Inc.
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.522414

PETERBILT MOTORS CO (Continued) **1000214436**

Place Longitude:	-122.013416
SIC Code 1:	4212
SIC Desc 1:	Local Trucking Without Storage
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 019128N01
Reg Measure Id:	162032
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	219959
Region:	2
Order / Resolution Number:	90-114

PETERBILT MOTORS CO (Continued) **1000214436**

Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	08/15/1990
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 019128N01
Description:	SCR-
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Name:	PETERBILT MOTORS CO
Address:	38801 CHERRY
City,State,Zip:	NEWARK, CA 94560
Region:	2
Facility Id:	248121
Agency Name:	PACCAR, Inc.
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.522414
Place Longitude:	-122.013416
SIC Code 1:	4212
SIC Desc 1:	Local Trucking Without Storage
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS

PETERBILT MOTORS CO (Continued) **1000214436**

Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 019128N01
Reg Measure Id:	162032
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	219630
Region:	2
Order / Resolution Number:	91-112
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	07/17/1991
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 2 019128N01
Description:	SCR-TO PROVIDE ADDITIONAL TIME FOR IMPL GW TREATMT.
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

HIST CORTESE:

edr_fname:	PETERBILT MOTORS
edr_fadd1:	38801 CHERRY

PETERBILT MOTORS CO (Continued) **1000214436**

City,State,Zip: NEWARK, CA 94560
Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01500034

edr_fname: SCR-PETERBILT MOTORS CO
edr_fadd1: 38801 CHERRY
City,State,Zip: NEWARK, CA 94560
Region: CORTESE
Facility County Code: 1
Reg By: WBC&D
Reg Id: 2 019128N01

K75 **PACCAR INC** **CPS-SLIC S103656699**
SSW **38801 CHERRY STREET** **HWP N/A**
1/2-1 **NEWARK, CA 94560**
0.703 mi.
3712 ft. **Site 2 of 2 in cluster K**

Relative:
Lower

Actual:
23 ft.

SLIC REG 2:
Region: 2
Facility ID: 01S0507
Facility Status: Post remedial action monitoring
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HWP:
EPA ID: CAD009120734
Name: PACCAR INC
Address: 38801 CHERRY STREET
Cleanup Status: CLOSED
Latitude: 37.52187
Longitude: -122.0143
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Supervisor: Not reported
Site Code: Not reported
Senate District: 10
Assembly District: 25
Public Information Officer: Not reported
Commercial Offsite Facility Types: Not reported
Quarterly Update: Not reported
Project Manager Lead: Not reported
Project Manager: Not reported
Permit Type: RCRA
Permit Effective Date: Not reported

PACCAR INC (Continued) **S103656699**

Permit Expiration Date: Not reported
Calenviroscreen Score: 76-80%
Total Planned Hours: Not reported
Total Planned Amount: Not reported
Total Actual Hours: Not reported

Activities:
EPA ID: CAD009120734
Facility Type: Historical - Non-Operating
Facility Name: PACCAR INC
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: Renewal - Historical
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1987-02-08 00:00:00
Type: Not reported
Title Description: Imported 12/2011:PERMIT2
Due Date: Not reported
Comments: Not reported
Unit Names: TANKSTR1
Event Description: Renewal - Historical - CALL-IN LETTER ISSUED
Actual Date: 02/05/1986

EPA ID: CAD009120734
Facility Type: Historical - Non-Operating
Facility Name: PACCAR INC
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1983-04-20 00:00:00
Type: Not reported
Title Description: Imported 12/2011:PERMIT1
Due Date: Not reported
Comments: INTENDS/CLOSED ALL WASTE HANDLING FACILITY, INTENDS/CLOSED ALL WASTE HANDLING FACILITY, Approved Request
Unit Names: Not reported
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST RECEIVED
Actual Date: 03/26/1982

EPA ID: CAD009120734
Facility Type: Historical - Non-Operating
Facility Name: PACCAR INC
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1983-04-20 00:00:00
Type: Not reported

PACCAR INC (Continued) **S103656699**

Title Description: Imported 12/2011:PERMIT1
Due Date: Not reported
Comments: Not reported
Unit Names: Not reported
Event Description: New Operating Permit - APPLICATION PART B RECEIVED
Actual Date: 03/30/1981

EPA ID: CAD009120734
Facility Type: Historical - Non-Operating
Facility Name: PACCAR INC
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1983-04-20 00:00:00
Type: Not reported
Title Description: Imported 12/2011:PERMIT1
Due Date: Not reported
Comments: INTENDS/CLOSED ALL WASTE HANDLING FACILITY, INTENDS/CLOSED ALL WASTE HANDLING FACILITY, Approved Request
Unit Names: Not reported
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date: 04/20/1983

EPA ID: CAD009120734
Facility Type: Historical - Non-Operating
Facility Name: PACCAR INC
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: Renewal - Historical
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 1987-02-08 00:00:00
Type: Not reported
Title Description: Imported 12/2011:PERMIT2
Due Date: Not reported
Comments: INTENDS/CLOSED ALL WASTE HANDLING FACILITY, INTENDS/CLOSED ALL WASTE HANDLING FACILITY, Approved Request
Unit Names: TANKSTR1
Event Description: Renewal - Historical - FINAL PERMIT RENEWAL - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date: 02/08/1987

EPA ID: CAD009120734
Facility Type: Historical - Non-Operating
Facility Name: PACCAR INC
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: CLOSED
Activity Type: Renewal - Historical
Permit Being Renewed: Not reported

PACCAR INC (Continued) **S103656699**

Permit Being Modified: Not reported
Final Date: 1987-02-08 00:00:00
Type: Not reported
Title Description: Imported 12/2011:PERMIT2
Due Date: Not reported
Comments: INTENDS/CLOSED ALL WASTE HANDLING FACILITY, INTENDS/CLOSED ALL WASTE HANDLING FACILITY, Approved Request
Unit Names: TANKSTR1
Event Description: Renewal - Historical - FINAL PERMIT RENEWAL - WITHDRAWAL REQUEST RECEIVED
Actual Date: 09/02/1986

Closure:
EPA ID: CAD009120734
Facility Type: Historical - Non-Operating
Facility Name: PACCAR INC
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Size: Not reported
Facility Status: CLOSED
Activity Type: Closure Final
Final Date: Not reported
Type: RCRA
Title Description: Closure
Due Date: Not reported
Comments: Not reported
Unit Names: SURFSTR1, TANKSTR1
Event Description: Closure Final - RECEIVE CLOSURE CERTIFICATION
Actual Date: 08/18/1987

EPA ID: CAD009120734
Facility Type: Historical - Non-Operating
Facility Name: PACCAR INC
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Size: Not reported
Facility Status: CLOSED
Activity Type: Closure Final
Final Date: Not reported
Type: RCRA
Title Description: Closure
Due Date: Not reported
Comments: Not reported
Unit Names: SURFSTR1, TANKSTR1
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 09/29/1988

Alias:
EPA ID: CAD009120734
Facility Type: Historical - Non-Operating
Facility Name: PACCAR INC
Facility Status: CLOSED
Project Manager: Not reported
Project Manager Lead: Not reported

PACCAR INC (Continued) **S103656699**

Supervisor: Not reported
Alias Type: Envirostor ID Number
Alias: 01500034

EPA ID: CAD009120734
Facility Type: Historical - Non-Operating
Facility Name: PACCAR INC
Facility Status: CLOSED
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Alias Type: Alternate Name
Alias: PETERBUILT MOTORS

76
SW
1/2-1
0.712 mi.
3759 ft.

Relative:
Lower

Actual:
22 ft.

THORO SYSTEM PRODUCTS
38403 CHERRY ST
NEWARK, CA 94560

ENVIROSTOR **U001597795**
LUST **N/A**
Alameda County CS
CERS HAZ WASTE
HIST UST
Cortese
HIST CORTESE
HWP
NPDES
WDS
CIWQS
CERS

ENVIROSTOR:
Name: STANDARD DRY WALL PRODUCTS
Address: 38403 CHERRY ST
City,State,Zip: NEWARK, CA 945600000
Facility ID: 80001456
Status: No Further Action
Status Date: 02/17/2011
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 8
NPL: NO
Regulatory Agencies: HWMP
Lead Agency: HWMP
Program Manager: Not reported
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Assembly: 25
Senate: 10
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.52359
Longitude: -122.0175
APN: 92A-2300-6-12
Past Use: MANUFACTURING - OTHER
Potential COC: Under Investigation
Confirmed COC: Under Investigation
Potential Description: UE

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Alias Name: 92A-2300-6-12
Alias Type: APN
Alias Name: CAD066572363
Alias Type: EPA Identification Number
Alias Name: 80001456
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/18/1988
Comments: Inspection conducted by DTSC enforcement staff. which summarizes site status. Follow up sampling data is not available in the file.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 07/12/1988
Comments: EPA withdrew the RCRA Part A Application for the site, and removed the site from its list of TSD facilities.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:
Name: THORO SYSTEM PRODUCTS
Address: 38403 CHERRY ST
City,State,Zip: NEWARK, CA 94560
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101360
Global Id: T0600101360
Latitude: 37.5236212
Longitude: -122.0178205
Status: Completed - Case Closed
Status Date: 04/10/1998
Case Worker: UUU
RB Case Number: 01-1473
Local Agency: Not reported
File Location: Not reported
Local Case Number: 0258
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Stoddard solvent / Mineral Spriits / Distillates
Site History: Not reported

LUST:
Global Id: T0600101360
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600101360
Action Type: RESPONSE
Date: 08/16/1989
Action: Preliminary Site Assessment Workplan

Global Id: T0600101360
Action Type: RESPONSE
Date: 11/02/1994
Action: Monitoring Report - Quarterly

Global Id: T0600101360
Action Type: Other
Date: 10/04/1988
Action: Leak Discovery

Global Id: T0600101360
Action Type: RESPONSE
Date: 01/15/1993
Action: Soil and Water Investigation Report

Global Id: T0600101360
Action Type: ENFORCEMENT
Date: 06/15/1993
Action: Other Report

Global Id: T0600101360
Action Type: ENFORCEMENT
Date: 01/26/1996
Action: Other Report

Global Id: T0600101360
Action Type: RESPONSE
Date: 04/26/1993
Action: Well Installation Report

Global Id: T0600101360
Action Type: Other
Date: 10/04/1988
Action: Leak Reported

Global Id: T0600101360
Action Type: RESPONSE
Date: 01/03/1992
Action: Other Report / Document

Global Id: T0600101360
Action Type: RESPONSE
Date: 01/07/1993
Action: Monitoring Report - Quarterly

Global Id: T0600101360

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Action Type: RESPONSE
Date: 10/29/1993
Action: Monitoring Report - Quarterly

Global Id: T0600101360
Action Type: RESPONSE
Date: 08/22/1995
Action: Monitoring Report - Quarterly

Global Id: T0600101360
Action Type: RESPONSE
Date: 04/30/1996
Action: Monitoring Report - Quarterly

Global Id: T0600101360
Action Type: RESPONSE
Date: 12/01/1989
Action: Site Assessment Report

Global Id: T0600101360
Action Type: ENFORCEMENT
Date: 04/10/1998
Action: Closure/No Further Action Letter

Global Id: T0600101360
Action Type: Other
Date: 10/04/1988
Action: Leak Stopped

Global Id: T0600101360
Action Type: RESPONSE
Date: 12/09/1991
Action: Other Report / Document

LUST:
Global Id: T0600101360
Status: Open - Case Begin Date
Status Date: 10/04/1988

Global Id: T0600101360
Status: Open - Site Assessment
Status Date: 09/27/1989

Global Id: T0600101360
Status: Completed - Case Closed
Status Date: 04/10/1998

LUST REG 2:
Region: 2
Facility Id: 01-1473
Facility Status: Case Closed
Case Number: 0258
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: 9/27/1989
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Name: ICI THORO SYSTEMS PRODUCTS
Address: 38403 CHERRY ST
City,State,Zip: NEWARK, CA 94560
Status: 11
Record Id: RO0002773
PE: 5502
Facility Status: Not reported
Latitude: 37.524212843
Longitude: -122.01722423

CERS HAZ WASTE:
Name: MASTER BUILDERS SOLUTIONS
Address: 38403 CHERRY ST
City,State,Zip: NEWARK, CA 94560
Site ID: 11105
CERS ID: 10452757
CERS Description: Hazardous Waste Generator

HIST UST:
Name: THORO SYSTEM PRODUCTS
Address: 38403 CHERRY ST
City,State,Zip: NEWARK, CA 94560
File Number: 000363E5
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000363E5.pdf
Region: STATE
Facility ID: 00000054788
Facility Type: Other
Other Type: MANUFACTURING
Contact Name: DENNIS RITCHIE, PLANT MANAGER
Telephone: 4157969911
Owner Name: THORO SYSTEM PRODUCTS
Owner Address: 7800 N.W. 38TH STREET
Owner City,St,Zip: MIAMI, FL 33166
Total Tanks: 0001

Tank Num: 001
Container Num: MS 001
Year Installed: 1975
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor, Groundwater Monitoring Well, Pressure Test

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Click here for Geo Tracker PDF:

CORTESE:

Name:	THORO SYSTEM PRODUCTS
Address:	38403 CHERRY ST
City,State,Zip:	NEWARK, CA 94560
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0600101360
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	THORO SYSTEM PRODUCTS
edr_fadd1:	38403 CHERRY
City,State,Zip:	NEWARK, CA 94560
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1473

HWP:

EPA ID:	CAD066572363
Name:	STANDARD DRY WALL PRODUCTS
Address:	38403 CHERRY ST
Cleanup Status:	PROTECTIVE FILER
Latitude:	37.52359
Longitude:	-122.0175
Facility Type:	Historical - Non-Operating
Facility Size:	Not reported
Supervisor:	Not reported
Site Code:	Not reported
Senate District:	10
Assembly District:	25
Public Information Officer:	Not reported
Commercial Offsite Facility Types:	Not reported
Quarterly Update:	Site was aprotective filer as determined by US EPA in 1988
Project Manager Lead:	Not reported
Project Manager:	Not reported
Permit Type:	Not reported

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Permit Effective Date: Not reported
Permit Expiration Date: Not reported
Calenviroscreen Score: 76-80%
Total Planned Hours: Not reported
Total Planned Amount: Not reported
Total Actual Hours: Not reported

Activities:
EPA ID: CAD066572363
Facility Type: Historical - Non-Operating
Facility Name: STANDARD DRY WALL PRODUCTS
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: PROTECTIVE FILER
Activity Type: Protective Filer Status
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: Not reported
Type: Not reported
Title Description: Protective Filer
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1, SURFSTR1
Event Description: Protective Filer Status - PROTECTIVE FILER (RECEIVED)
Actual Date: 09/24/1986

EPA ID: CAD066572363
Facility Type: Historical - Non-Operating
Facility Name: STANDARD DRY WALL PRODUCTS
Project Manager: Not reported
Project Manager Lead: Not reported
Supervisor: Not reported
Facility Status: PROTECTIVE FILER
Activity Type: Protective Filer Status
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: Not reported
Type: Not reported
Title Description: Protective Filer
Due Date: Not reported
Comments: Not reported
Unit Names: CONTAIN1, SURFSTR1
Event Description: Protective Filer Status - PROTECTIVE FILER (APPROVED)
Actual Date: 07/12/1988

NPDES:
Name: BASF CONSTRUCTION CHEMICALS LLC
Address: 38403 CHERRY ST
City,State,Zip: NEWARK, CA 94560
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Order Number:	Not reported
WDID:	2 01I020642
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	02/26/2021
Operator Name:	BASF Corporation
Operator Address:	23700 Chagrin Blvd
Operator City:	Beachwood
Operator State:	Ohio
Operator Zip:	44122

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	319591
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01I020642
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	01/24/2007
Status:	Active
Status Date:	01/24/2007
Place Size:	7
Place Size Unit:	Acres
Contact:	James Corson
Contact Title:	Not reported
Contact Phone:	510-796-9911
Contact Phone Ext:	6015
Contact Email:	Jim.Corson@basf.com
Operator Name:	BASF Corporation
Operator Address:	23700 Chagrin Blvd
Operator City:	Beachwood
Operator State:	Ohio
Operator Zip:	44122
Operator Contact:	James Corson

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Operator Contact Title:	Not reported
Operator Contact Phone:	510-796-9911
Operator Contact Phone Ext:	6015
Operator Contact Email:	Jim.Corson@basf.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	The Bay
Certifier:	Jim Corson
Certifier Title:	Acting Plant Manager
Certification Date:	11-MAY-16
Primary Sic:	2851-Paints, Varnishes, Lacquers, Enamels, and Allied Products
Secondary Sic:	3272-Concrete Products, Except Block and Brick
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	319591
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01I020642
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	01/24/2007
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	BASF Corporation
Discharge Address:	23700 Chagrin Blvd
Discharge City:	Beachwood

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Discharge State:	Ohio
Discharge Zip:	44122
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Tertiary Sic:	Not reported
Name:	BASF CONSTRUCTION CHEMICALS LLC
Address:	38403 CHERRY ST
City,State,Zip:	NEWARK, CA 94560
Facility Status:	Active
NPDES Number:	CAS000001
Region:	2
Agency Number:	0
Regulatory Measure ID:	319591
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	2 01I020642
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	01/24/2007
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	23700 Chagrin Blvd
Discharge Name:	BASF Corporation
Discharge City:	Beachwood
Discharge State:	Ohio
Discharge Zip:	44122
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	319591
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01I020642
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	01/24/2007
Status:	Active
Status Date:	01/24/2007
Place Size:	7

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Place Size Unit:	Acres
Contact:	James Corson
Contact Title:	Not reported
Contact Phone:	510-796-9911
Contact Phone Ext:	6015
Contact Email:	Jim.Corson@basf.com
Operator Name:	BASF Corporation
Operator Address:	23700 Chagrin Blvd
Operator City:	Beachwood
Operator State:	Ohio
Operator Zip:	44122
Operator Contact:	James Corson
Operator Contact Title:	Not reported
Operator Contact Phone:	510-796-9911
Operator Contact Phone Ext:	6015
Operator Contact Email:	Jim.Corson@basf.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	The Bay
Certifier:	Jim Corson
Certifier Title:	Acting Plant Manager
Certification Date:	11-MAY-16
Primary Sic:	2851-Paints, Varnishes, Lacquers, Enamels, and Allied Products
Secondary Sic:	3272-Concrete Products, Except Block and Brick
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	319591

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01I020642
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	01/24/2007
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	BASF Corporation
Discharge Address:	23700 Chagrin Blvd
Discharge City:	Beachwood
Discharge State:	Ohio
Discharge Zip:	44122
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

WDS:

Name:	DEGUSSA CONST CHEM OP INC
Address:	38403 Cherry St
City:	NEWARK
Facility ID:	San Francisco Bay 01I016163
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	2
Facility Telephone:	5107969911
Facility Contact:	GARY OBOSKY
Agency Name:	DEGUSSA CONST CHEM OP INC
Agency Address:	889 Valley Park Dr S
Agency City,St,Zip:	Shakopee 553791854
Agency Contact:	SCOTT SHINN
Agency Telephone:	9524966005
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to

THORO SYSTEM PRODUCTS (Continued) **U001597795**

represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:

Name:	BASF CONSTRUCTION CHEMICALS LLC
Address:	38403 CHERRY ST
City,State,Zip:	NEWARK, CA 14560
Agency:	BASF Construction Chemicals LLC
Agency Address:	23700 Chagrin Blvd, Beachwood, OH 44122
Place/Project Type:	Industrial - Paints, Varnishes, Lacquers, Enamels, and Allied Products
SIC/NAICS:	2851(+)
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 01C345286
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	01/16/2007
Termination Date:	01/24/2007
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

Name:	BASF CONSTRUCTION CHEMICALS LLC
Address:	38403 CHERRY ST
City,State,Zip:	NEWARK, CA 94560
Agency:	BASF Corporation
Agency Address:	23700 Chagrin Blvd, Beachwood, OH 44122
Place/Project Type:	Industrial - Paints, Varnishes, Lacquers, Enamels, and Allied Products
SIC/NAICS:	2851(+)
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 01I020642
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	01/24/2007
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported

THORO SYSTEM PRODUCTS (Continued) **U001597795**

TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 37.52432
Longitude: -122.01709

Name: DEGUSSA CONST CHEM OP INC
Address: 38403 CHERRY ST
City,State,Zip: NEWARK, CA 94560
Agency: DeGussa Construction Chem Op Inc
Agency Address: 889 Valley Park Dr, Shakopee, MN 55379
Place/Project Type: Industrial - Paints, Varnishes, Lacquers, Enamels, and Allied Products
SIC/NAICS: 2851(+)
Region: 2
Program: INDSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 2 01I016163
NPDES Number: CAS000001
Adoption Date: Not reported
Effective Date: 10/24/2000
Termination Date: 01/01/2007
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 37.52432
Longitude: -122.01709

CERS:
Name: BASF CONSTRUCTION CHEMICALS LLC
Address: 38403 CHERRY ST
City,State,Zip: NEWARK, CA 94560
Site ID: 527105
CERS ID: 646190
CERS Description: Industrial Facility Storm Water

Violations:
Site ID: 527105
Site Name: BASF Construction Chemicals LLC
Violation Date: 07-02-2008
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit the 2007-2008 Annual Report by 7/1/08 due date.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS,

Enforcement Action:
Site ID: 527105
Site Name: BASF Construction Chemicals LLC
Site Address: 38403 CHERRY ST
Site City: NEWARK

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Site Zip: 94560
Enf Action Date: 08-22-2008
Enf Action Type: Notice of Non-Compliance for Non-Filers
Enf Action Description: Notice of Non-Compliance for Non-Filers
Enf Action Notes: N/A
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: BASF Corporation
Entity Title: Operator
Affiliation Address: 23700 Chagrin Blvd
Affiliation City: Beachwood
Affiliation State: OH
Affiliation Country: Not reported
Affiliation Zip: 44122
Affiliation Phone: ,

Name: THORO SYSTEM PRODUCTS
Address: 38403 CHERRY ST
City,State,Zip: NEWARK, CA 94560
Site ID: 212036
CERS ID: T0600101360
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: MASTER BUILDERS SOLUTIONS
Address: 38403 CHERRY ST
City,State,Zip: NEWARK, CA 94560
Site ID: 11105
CERS ID: 889286
CERS Description: Industrial Facility Storm Water

Violations:
Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 12-22-2015
Citation: HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description: Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 02/22/2016.
Violation Division: Alameda County Environmental Health

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.5 25201 - California Health and Safety Code, Chapter 6.5, Section(s) 25201
Violation Description:	Failure to obtain a permit or grant of interim status after generator has accumulated hazardous waste on-site for longer than 90 days.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATION: The accumulation date on the used oil drum was 2-26-2017. Facilities who generate more than 1000 kg of hazardous waste per month may store waste on site up to 90 days. "CORRECTIVE ACTION: Immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the ACDEH inspector within 30 days of this report. Immediately implement procedures to ensure hazardous waste is disposed of within the 90 day allowable time frame. Send the ACDEH inspector information regarding how the facility will ensure wastes are not held for over 90 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.5 25244.21 - California Health and Safety Code, Chapter 6.5, Section(s) 25244.21
Violation Description:	Failure to adequately complete, and maintain for review, all requirements of the source reduction evaluation review and plan (SB-14).
Violation Notes:	Returned to compliance on 09/28/2017. OBSERVATION: The facility did not complete a source reduction report. CORRECTIVE ACTION: Complete the next required report and send the ACDEH Inspector information regarding why the last report was not completed.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	07-30-2014
Citation:	HSC 6.5 25189.5(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25189.5(a)
Violation Description:	Failure to properly dispose of hazardous waste at an authorized location.
Violation Notes:	Returned to compliance on 01/21/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	07-30-2014
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Violation Description:	Business Plan Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 01/21/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	22 CCR 15 66265.174 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.174
Violation Description:	Failure to inspect weekly, areas where hazardous waste containers are stored or transferred. The owner or operator shall look for leaking containers and for deterioration of containers and the containment system caused by corrosion or other factors.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATION: The site has developed an inspection checklist and performed one inspection. The owner or operator shall inspect areas used for container storage or transfer, at least weekly, looking for leaking containers and for deterioration of containers and the containment system caused by corrosion and other factors. CORRECTIVE ACTION: Immediately begin conducting the necessary weekly inspections for all hazardous waste containers at this facility. Ensure all waste accumulation areas are inspected and container labeling is included. Send three weeks of completed inspection forms to the ACDEH inspector.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	03-05-2021
Citation:	22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description:	Failure to keep records of any test results, waste analyses, or other determinations made in accordance with section 66262.11 for at least three years from the date that the waste was last sent to on-site or off-site treatment, storage, or disposal.
Violation Notes:	Returned to compliance on 07/13/2021. Facility could not provide test results of waste streams noted during the inspection: - Dust produced in the collection bag outdoors by the water treatment area has not had a hazardous waste determination - Filter cake debris from the water treatment area has not had a hazardous waste determination. The influent material being treated in the water treatment area has not had a hazardous waste determination. Obtain test results for the listed waste streams and provide documentation to the ACDEH inspector
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site

THORO SYSTEM PRODUCTS (Continued) **U001597795**

	at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATIONS: The inventory that was submitted to CERS is incorrect. The average daily amounts have been incorrectly listed as the maximum daily amounts for most inventory items. The Chemical Location field has been left blank for most items. Some items are listed as "Pure" when they should be marked as "Mixture". The following items are not listed in the chemical inventory in CERS: Hi Sol 10 Solvent (at least 350 gal x 2); Master Matrix VMA 362 (at least 275 gal x 24); used oil (at least 55 gal x 1); Master Seal (5 gallons each); Cement Fondu (5 gallons each); Glycol Etyher EB (55 gal x 2); sodium nitrite. Acetylene is incorrectly listed in gallons. Propane is incorrectly listed as 10 gallons Largest Container, with 200 gallons Maximum Daily Amount. Compressed air from air compressors might need to be included on the inventory. CORRECTIVE ACTIONS: The entire chemical inventory must be thoroughly reviewed and resubmitted to CERS. Ensure that the Maximum [Truncated]
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	07-30-2014
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 01/21/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description:	Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATION: Signed TSDF copies of hazardous waste manifest were not found for all manifests. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. CORRECTIVE ACTION: Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit copies of the TSDF signed copies of manifests 005288834 dated 7-13-2016 and 005284310 dated 4-20-2016 to the ACDEH inspector.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	07-24-2013
Citation:	HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description:	Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes:	Returned to compliance on 12/23/2013.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	12-10-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 12/13/2019.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATIONS: The chemical inventory in CERS is missing inventory items. CORRECTIVE ACTIONS: See Violation #4 for more details.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATION: The annotated site map submitted to CERS does not include the outside storage of hazardous materials inside the cargo containers or the hazardous waste

THORO SYSTEM PRODUCTS (Continued) **U001597795**

generated from the lab. CORRECTIVE ACTION: Revise the site map to include all hazardous materials and hazardous waste storage areas and submit the new map to CERS. Be sure to delete all other versions of the site map in CERS.

Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 09-28-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 11/02/2017. OBSERVATION: One five gallon white pail in the lab waste area and one 55-gallon drum labeled "absorbents contaminated with oil" did not have an accumulation start dates. All hazardous waste containers shall be marked with the following information: 1) the words Hazardous Waste ; 2) name and address of generator; 3) hazardous properties; 4) physical state; 5) composition (contents); 6) accumulation start date. CORRECTIVE ACTION: Immediately label these containers and ensure that all containers are marked with all the required information. Since it cannot be determined how long the containers listed above have been on site, immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the ACDEH inspector within 30 days of this report.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 07-30-2014
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to maintain uniform hazardous waste manifest, consolidated manifest, or bills of lading copies for three years.
Violation Notes: Returned to compliance on 01/21/2015.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 09-28-2017
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 11/02/2017. OBSERVATIONS: Hazardous

THORO SYSTEM PRODUCTS (Continued) **U001597795**

materials handling training occurred on 8/29/17. Emergency Response Plan training occurred on 2/9/16. CORRECTIVE ACTIONS: Document and train all employees in emergency response procedures. Submit copy of the training record to ACDEH.

Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 07-30-2014
Citation: 22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description: Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes: Returned to compliance on 01/21/2015.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 07-30-2014
Citation: 22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description: Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.
Violation Notes: Returned to compliance on 01/21/2015.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 07-30-2014
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 01/21/2015.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 09-28-2017
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 11/02/2017. OBSERVATIONS: Two large plastic tanks stored outside in the southwest corner of their property do not have labels on them. The chemical inventory in CERS is incorrect.

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Emergency response training last occurred on 2/9/16. CORRECTIVE ACTIONS: Label the two plastic tanks as "EMPTY" and submit a photo of the labeled tanks. This violation was corrected on-site. Update and correct the chemical inventory in CERS. See Violation #4 for more details. Document and train all employees in emergency response procedures and submit a copy of the training documentation to ACDEH.

Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 07-30-2014
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/21/2015.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 09-28-2017
Citation: HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description: Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes: Returned to compliance on 11/02/2017. "OBSERVATION: Generator failed to properly handle, manage, label, and/or recycle used oil and fuel filters. There was no accumulation start date on the used filter drum and the drum was not properly closed (no ring). "CORRECTIVE ACTION: Generator shall immediately comply with the Title 22 regulations with regards to the proper handling, management, labeling and recycling of used oil and fuel filters. Properly close the oil filter drum and send a photo to the ACDEH inspector. Provide documentation that the oil filters have been accumulated for less than one year or immediately arrange for proper disposal and send documentation to the ACDEH inspector.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 09-28-2017
Citation: 22 CCR 23 66273.34 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.34
Violation Description: Failure to label or mark each individual or container or the designated area of universal waste as required. 1) Waste batteries shall be marked with "Universal Waste-Battery(ies) . 2) Mercury containing equipment shall be marked with "Universal Waste -Mercury-Containing Equipment . 3) Lamps shall be marked with Universal Waste-Lamp(s) . 4)Each electronic devices or the container or the designated area shall be marked with Universal Waste-Electronic Device(s) . 5) Each CRTs or the container or the designated area shall be marked with "Universal Waste-CRT(s) . 6) CRT glass or the

THORO SYSTEM PRODUCTS (Continued) **U001597795**

	designated area shall be marked with Universal Waste-CRT glass .
Violation Notes:	Returned to compliance on 11/02/2017. " OBSERVATION: Universal wastes (batteries) are stored in a silo and are not properly labeled or packaged. A universal waste area inside the main facility has properly labeled and packaged aerosol cans and other universal waste. A generator shall label or mark universal waste with the words 'Universal Waste' and the type of waste (batteries, mercury containing equipment, lamps/bulbs, electronic devices, CRTs, aerosol cans). CORRECTIVE ACTION: Immediately label and package the universal wastes stored in the silo and ensure that all universal wastes are labeled with the required information.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	07-30-2014
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 01/21/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.5 25250.19(c) - California Health and Safety Code, Chapter 6.5, Section(s) 25250.19(c)
Violation Description:	Failure to record in an operating log and retain for three years the following information for each shipment of recycled or exempted oil: 1) The name and address of the used oil recycling facility or generator claiming the oil meets the requirements of HSC 6.5 25250.1. 2) The name and address of the facility receiving the shipment. 3) The quantity of oil delivered. 4) The date of shipment or delivery. 5) A cross-reference to the records and documentation required under HSC 6.5 25250.1.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATION: The Owner/Operator failed to retain paperwork documenting disposal of used oil for 3 years. CORRECTIVE ACTION: The Owner/Operator shall maintain copies documenting disposal of used oil for a minimum of 3 years. The last pick up date on the used oil drum was 2-26-2016 - provide a copy of the shipping/disposal documents to the ACDEH inspector for the 2-26-2016 shipment.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when

THORO SYSTEM PRODUCTS (Continued) **U001597795**

	storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATIONS: The chemical inventory in CERS is incorrect and the site map does not include the outside storage of hazardous materials or the hazardous waste generated from the lab. CORRECTIVE ACTION: Review and update the chemical inventory in CERS. See Violation # 4 for more details. Revise the site map to include all hazardous materials and hazardous waste storage areas and submit the new map to CERS.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATIONS: The chemical inventory in CERS is incorrect. The site map is missing hazardous materials/waste storage locations. CORRECTIVE ACTIONS: See Violation # 4 and #6 for details.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	03-05-2021
Citation:	22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11
Violation Description:	Failure to determine if wastes generated are hazardous waste by using generator knowledge or applying testing method.
Violation Notes:	Returned to compliance on 07/13/2021. Facility could not provide documentation of hazardous waste determination for the following waste streams: - Dust from indoor facility chemical mixing captured in the bag outdoors by the water treatment area, has not had a hazardous waste determination - Filter cake debris from the water treatment area has not had a hazardous waste determination. The influent material (prior to any treatment such as PH adjustment or filtration) has not had a hazardous waste determination. Perform hazardous waste determination on the observed waste streams, a lab analysis will determine hazardous waste characteristics. Hazardous waste determination includes a 96 hour aquatic bioassay, TTLC/STLC and CAM-17 metal test. Provide documentation of lab results to ACDEH inspector. The influent material being treated in the water treatment area must have a hazardous waste determination prior to being treated. Please provide a description of the treatment proce... [TRUNCATED: Refer to full Inspection Report]
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-05-2021
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ACDEH inspectors arrived on site at 38403 Cherry St Newark, Master Builders Solutions to conduct an inspection for the Hazardous Materials Business Plan and Hazardous Waste Generator programs. Facility manager Johnathan assisted ACDEH with the inspection. Master Builders Solutions is the global brand of advanced chemical solutions for construction. Construction chemicals portfolio includes concrete admixtures, waterproofing solutions, concrete repair and protection solutions, performance grouts and performance flooring solutions. The facility utilizes sand as a primary base and stores several thousands of gallons of product mixtures used for formulating different types of concrete filling adhesives with the sand. Most of the variety of chemicals used in the production are contained within several hundred 5 gallon buckets stacked across the warehouse. Within the entire facility, there are 354 different types of chemicals reported into... [TRUNCATED: Refer to full Inspection Report]
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-28-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Update the "Site Emergency Action Plan" dated 1/15/16. This site plan refers to the Newark Fire Department throughout the document, however, they became the Alameda County Fire Department in 2010. Add Alameda County Department of Environmental Health 510-567-6700 to Attachment B Response Agencies on page 21. All violations noted in this HMBP inspection report are to be corrected within 30 days and proof of those corrections submitted to this office in the same time frame.
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-30-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	HW GENERATOR INSPECTION.
Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-28-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Routine Large Quantity Generator (LQG) inspection for BASF at 38403 Cherry St. Newark. Jim Corson, Plant Manager, granted permission to conduct the inspection. Alameda County Department of Environmental Health (ACDEH) inspectors Altamirano and Garcia-LaGrille were on-site to conduct the inspection. This site is a large quantity generator of

THORO SYSTEM PRODUCTS (Continued) **U001597795**

California waste and generates small quantities of RCRA waste. All violations are to be corrected within 30 days of this report and proof of these corrections submitted to this office in the same time frame.

Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-10-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-05-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Master Builders Solutions is the global brand of advanced chemical solutions for construction. Construction chemicals portfolio includes concrete admixtures, waterproofing solutions, concrete repair and protection solutions, performance grouts and performance flooring solutions. Facility also operates a water treatment unit that treats water slurry. Master Builder's Solution is permitted with Union Sanitary District, and maintains documentation on the PH levels of the treated waste water after it is processed. However, facility representative Johnathan Hightower could not provide testing records or identification of the influent material being processed. Hazardous waste and PH determination is required on the materials being processed into the water treatment unit. Waste streams include non-RCRA hazardous waste liquid mixes (limestone) and waste oil, hydraulic fluid from the facility maintenance shop. Hazardous Waste hauler is Safety-Kleen Systems Inc.
Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-24-2013
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-30-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HMBP INSPECTION.
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Eval General Type: Other/Unknown
Eval Date: 12-22-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 11105
Site Name: Master Builders Solutions
Site Address: 38403 CHERRY ST
Site City: NEWARK
Site Zip: 94560
Enf Action Date: 02-18-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: UNSPEC
Enf Action Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Site Address: 38403 CHERRY ST
Site City: NEWARK
Site Zip: 94560
Enf Action Date: 12-22-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Coordinates:
Site ID: 11105
Facility Name: Master Builders Solutions
Env Int Type Code: HWG
Program ID: 10452757
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 37.523660
Longitude: -122.018040

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Alameda County Env Health
Entity Title: Not reported
Affiliation Address: 1131 Harbor Parkway, Suite 240
Affiliation City: Alameda
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94502-6577
Affiliation Phone: (510) 567-6700,

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Affiliation Type Desc:	Document Preparer
Entity Name:	Jonathan Hightower
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Owner/Operator
Entity Name:	Master Builders Solutions
Entity Title:	Operator
Affiliation Address:	38403 Cherry St
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,

Affiliation Type Desc:	Environmental Contact
Entity Name:	Jonathan Hightower
Entity Title:	Not reported
Affiliation Address:	38403 Cherry street
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,

Affiliation Type Desc:	Operator
Entity Name:	Master Builders Solutions
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 796-9911,

Affiliation Type Desc:	Parent Company
Entity Name:	BASF Corp
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,

Affiliation Type Desc:	Public Contact
Entity Name:	JIM CORSON
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Affiliation Zip:	94560
Affiliation Phone:	5107969911,
Affiliation Type Desc:	Identification Signer
Entity Name:	Jonathan Hightower
Entity Title:	Plant Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Master Builders Solutions Construction Systems US, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Technical Contact
Entity Name:	GEORGE R. ANDIS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	3032277061,
Affiliation Type Desc:	Company Official
Entity Name:	Jim Corson
Entity Title:	Plant Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	38403 Cherry St.
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Master Builders Solutions LLC
Entity Title:	Not reported
Affiliation Address:	23700 Chagrin Blvd.

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Affiliation City: Cleveland
Affiliation State: OH
Affiliation Country: United States
Affiliation Zip: 44122
Affiliation Phone: (216) 831-5500,

Name: STANDARD DRY WALL PRODUCTS
Address: 38403 CHERRY ST
City,State,Zip: NEWARK, CA 945600000
Site ID: 242754
CERS ID: CAD066572363
CERS Description: Hazardous Waste

Affiliation:
Affiliation Type Desc: Facility Owner
Entity Name: THORO SYSTEMS PRODUCTS INC
Entity Title: Not reported
Affiliation Address: PO BOX 365
Affiliation City: NEWARK
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 945600365
Affiliation Phone: 9043768246,

Affiliation Type Desc: Facility Contact
Entity Name: UNDELIVERABLE PER VF97 AH
Entity Title: Not reported
Affiliation Address: PO BOX 365
Affiliation City: NEWARK
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 945600365
Affiliation Phone: 5107969911,

Name: MASTER BUILDERS SOLUTIONS
Address: 38403 CHERRY ST
City,State,Zip: NEWARK, CA 94560
Site ID: 11105
CERS ID: 10452757
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 12-22-2015
Citation: HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description: Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 02/22/2016.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 11105

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.5 25201 - California Health and Safety Code, Chapter 6.5, Section(s) 25201
Violation Description:	Failure to obtain a permit or grant of interim status after generator has accumulated hazardous waste on-site for longer than 90 days.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATION: The accumulation date on the used oil drum was 2-26-2017. Facilities who generate more than 1000 kg of hazardous waste per month may store waste on site up to 90 days. "CORRECTIVE ACTION: Immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the ACDEH inspector within 30 days of this report. Immediately implement procedures to ensure hazardous waste is disposed of within the 90 day allowable time frame. Send the ACDEH inspector information regarding how the facility will ensure wastes are not held for over 90 days.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.5 25244.21 - California Health and Safety Code, Chapter 6.5, Section(s) 25244.21
Violation Description:	Failure to adequately complete, and maintain for review, all requirements of the source reduction evaluation review and plan (SB-14).
Violation Notes:	Returned to compliance on 09/28/2017. OBSERVATION: The facility did not complete a source reduction report. CORRECTIVE ACTION: Complete the next required report and send the ACDEH Inspector information regarding why the last report was not completed.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	07-30-2014
Citation:	HSC 6.5 25189.5(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25189.5(a)
Violation Description:	Failure to properly dispose of hazardous waste at an authorized location.
Violation Notes:	Returned to compliance on 01/21/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	07-30-2014
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 01/21/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	22 CCR 15 66265.174 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.174
Violation Description:	Failure to inspect weekly, areas where hazardous waste containers are stored or transferred. The owner or operator shall look for leaking containers and for deterioration of containers and the containment system caused by corrosion or other factors.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATION: The site has developed an inspection checklist and performed one inspection. The owner or operator shall inspect areas used for container storage or transfer, at least weekly, looking for leaking containers and for deterioration of containers and the containment system caused by corrosion and other factors. CORRECTIVE ACTION: Immediately begin conducting the necessary weekly inspections for all hazardous waste containers at this facility. Ensure all waste accumulation areas are inspected and container labeling is included. Send three weeks of completed inspection forms to the ACDEH inspector.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	03-05-2021
Citation:	22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description:	Failure to keep records of any test results, waste analyses, or other determinations made in accordance with section 66262.11 for at least three years from the date that the waste was last sent to on-site or off-site treatment, storage, or disposal.
Violation Notes:	Returned to compliance on 07/13/2021. Facility could not provide test results of waste streams noted during the inspection: - Dust produced in the collection bag outdoors by the water treatment area has not had a hazardous waste determination - Filter cake debris from the water treatment area has not had a hazardous waste determination. The influent material being treated in the water treatment area has not had a hazardous waste determination. Obtain test results for the listed waste streams and provide documentation to the ACDEH inspector
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATIONS: The inventory that was submitted to CERS is incorrect. The average daily amounts have been incorrectly listed as the maximum daily amounts for most

THORO SYSTEM PRODUCTS (Continued) **U001597795**

inventory items. The Chemical Location field has been left blank for most items. Some items are listed as "Pure" when they should be marked as "Mixture". The following items are not listed in the chemical inventory in CERS: Hi Sol 10 Solvent (at least 350 gal x 2); Master Matrix VMA 362 (at least 275 gal x 24); used oil (at least 55 gal x 1); Master Seal (5 gallons each); Cement Fondu (5 gallons each); Glycol Etyher EB (55 gal x 2); sodium nitrite. Acetylene is incorrectly listed in gallons. Propane is incorrectly listed as 10 gallons Largest Container, with 200 gallons Maximum Daily Amount. Compressed air from air compressors might need to be included on the inventory. CORRECTIVE ACTIONS: The entire chemical inventory must be thoroughly reviewed and resubmitted to CERS. Ensure that the Maximum [Truncated]

Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 07-30-2014
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 01/21/2015.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 09-28-2017
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes: Returned to compliance on 11/02/2017. OBSERVATION: Signed TSDF copies of hazardous waste manifest were not found for all manifests. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. CORRECTIVE ACTION: Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit copies of the TSDF signed copies of manifests 005288834 dated 7-13-2016 and 005284310 dated 4-20-2016 to the ACDEH inspector.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Violation Date:	07-24-2013
Citation:	HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description:	Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes:	Returned to compliance on 12/23/2013.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	12-10-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 12/13/2019.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATIONS: The chemical inventory in CERS is missing inventory items. CORRECTIVE ACTIONS: See Violation #4 for more details.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATION: The annotated site map submitted to CERS does not include the outside storage of hazardous materials inside the cargo containers or the hazardous waste generated from the lab. CORRECTIVE ACTION: Revise the site map to include all hazardous materials and hazardous waste storage areas and submit the new map to CERS. Be sure to delete all other versions of the site map in CERS.

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATION: One five gallon white pail in the lab waste area and one 55-gallon drum labeled "absorbents contaminated with oil" did not have an accumulation start dates. All hazardous waste containers shall be marked with the following information: 1) the words Hazardous Waste ; 2) name and address of generator; 3) hazardous properties; 4) physical state; 5) composition (contents); 6) accumulation start date. CORRECTIVE ACTION: Immediately label these containers and ensure that all containers are marked with all the required information. Since it cannot be determined how long the containers listed above have been on site, immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the ACDEH inspector within 30 days of this report.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	07-30-2014
Citation:	22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description:	Failure to maintain uniform hazardous waste manifest, consolidated manifest, or bills of lading copies for three years.
Violation Notes:	Returned to compliance on 01/21/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATIONS: Hazardous materials handling training occurred on 8/29/17. Emergency Response Plan training occurred on 2/9/16. CORRECTIVE ACTIONS: Document and train all employees in emergency response procedures. Submit copy of the training record to ACDEH.

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	07-30-2014
Citation:	22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description:	Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes:	Returned to compliance on 01/21/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	07-30-2014
Citation:	22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description:	Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.
Violation Notes:	Returned to compliance on 01/21/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	07-30-2014
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/21/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATIONS: Two large plastic tanks stored outside in the southwest corner of their property do not have labels on them. The chemical inventory in CERS is incorrect. Emergency response training last occurred on 2/9/16. CORRECTIVE ACTIONS: Label the two plastic tanks as "EMPTY" and submit a photo of the labeled tanks. This violation was corrected on-site. Update and correct the chemical inventory in CERS. See Violation #4 for more

THORO SYSTEM PRODUCTS (Continued) **U001597795**

details. Document and train all employees in emergency response procedures and submit a copy of the training documentation to ACDEH.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 07-30-2014
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/21/2015.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 09-28-2017
Citation: HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description: Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes: Returned to compliance on 11/02/2017. "OBSERVATION: Generator failed to properly handle, manage, label, and/or recycle used oil and fuel filters. There was no accumulation start date on the used filter drum and the drum was not properly closed (no ring). "CORRECTIVE ACTION: Generator shall immediately comply with the Title 22 regulations with regards to the proper handling, management, labeling and recycling of used oil and fuel filters. Properly close the oil filter drum and send a photo to the ACDEH inspector. Provide documentation that the oil filters have been accumulated for less than one year or immediately arrange for proper disposal and send documentation to the ACDEH inspector.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 09-28-2017
Citation: 22 CCR 23 66273.34 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.34
Violation Description: Failure to label or mark each individual or container or the designated area of universal waste as required. 1) Waste batteries shall be marked with "Universal Waste-Battery(ies) . 2) Mercury containing equipment shall be marked with "Universal Waste -Mercury-Containing Equipment . 3) Lamps shall be marked with Universal Waste-Lamp(s) . 4)Each electronic devices or the container or the designated area shall be marked with Universal Waste-Electronic Device(s) . 5) Each CRTs or the container or the designated area shall be marked with "Universal Waste-CRT(s) . 6) CRT glass or the designated area shall be marked with Universal Waste-CRT glass .
Violation Notes: Returned to compliance on 11/02/2017. " OBSERVATION: Universal wastes (batteries) are stored in a silo and are not properly labeled or packaged. A universal waste area inside the main facility has properly

THORO SYSTEM PRODUCTS (Continued) **U001597795**

labeled and packaged aerosol cans and other universal waste. A generator shall label or mark universal waste with the words 'Universal Waste' and the type of waste (batteries, mercury containing equipment, lamps/bulbs, electronic devices, CRTs, aerosol cans). CORRECTIVE ACTION: Immediately label and package the universal wastes stored in the silo and ensure that all universal wastes are labeled with the required information.

Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 07-30-2014
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 01/21/2015.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 09-28-2017
Citation: HSC 6.5 25250.19(c) - California Health and Safety Code, Chapter 6.5, Section(s) 25250.19(c)
Violation Description: Failure to record in an operating log and retain for three years the following information for each shipment of recycled or exempted oil: 1) The name and address of the used oil recycling facility or generator claiming the oil meets the requirements of HSC 6.5 25250.1. 2) The name and address of the facility receiving the shipment. 3) The quantity of oil delivered. 4) The date of shipment or delivery. 5) A cross-reference to the records and documentation required under HSC 6.5 25250.1.
Violation Notes: Returned to compliance on 11/02/2017. OBSERVATION: The Owner/Operator failed to retain paperwork documenting disposal of used oil for 3 years. CORRECTIVE ACTION: The Owner/Operator shall maintain copies documenting disposal of used oil for a minimum of 3 years. The last pick up date on the used oil drum was 2-26-2016 - provide a copy of the shipping/disposal documents to the ACDEH inspector for the 2-26-2016 shipment.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 09-28-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 11/02/2017. OBSERVATIONS: The chemical inventory in CERS is incorrect and the site map does not include the

THORO SYSTEM PRODUCTS (Continued) **U001597795**

outside storage of hazardous materials or the hazardous waste generated from the lab. CORRECTIVE ACTION: Review and update the chemical inventory in CERS. See Violation # 4 for more details. Revise the site map to include all hazardous materials and hazardous waste storage areas and submit the new map to CERS.

Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 09-28-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 11/02/2017. OBSERVATIONS: The chemical inventory in CERS is incorrect. The site map is missing hazardous materials/waste storage locations. CORRECTIVE ACTIONS: See Violation # 4 and #6 for details.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 03-05-2021
Citation: 22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11
Violation Description: Failure to determine if wastes generated are hazardous waste by using generator knowledge or applying testing method.
Violation Notes: Returned to compliance on 07/13/2021. Facility could not provide documentation of hazardous waste determination for the following waste streams: - Dust from indoor facility chemical mixing captured in the bag outdoors by the water treatment area, has not had a hazardous waste determination - Filter cake debris from the water treatment area has not had a hazardous waste determination. The influent material (prior to any treatment such as PH adjustment or filtration) has not had a hazardous waste determination. Perform hazardous waste determination on the observed waste streams, a lab analysis will determine hazardous waste characteristics. Hazardous waste determination includes a 96 hour aquatic bioassay, TTLC/STLC and CAM-17 metal test. Provide documentation of lab results to ACDEH inspector. The influent material being treated in the water treatment area must have a hazardous waste determination prior to being treated. Please provide a description of the treatment proce... [TRUNCATED: Refer to full Inspection Report]
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-05-2021
Violations Found: No
Eval Type: Routine done by local agency

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Eval Notes: ACDEH inspectors arrived on site at 38403 Cherry St Newark, Master Builders Solutions to conduct an inspection for the Hazardous Materials Business Plan and Hazardous Waste Generator programs. Facility manager Johnathan assisted ACDEH with the inspection. Master Builders Solutions is the global brand of advanced chemical solutions for construction. Construction chemicals portfolio includes concrete admixtures, waterproofing solutions, concrete repair and protection solutions, performance grouts and performance flooring solutions. The facility utilizes sand as a primary base and stores several thousands of gallons of product mixtures used for formulating different types of concrete filling adhesives with the sand. Most of the variety of chemicals used in the production are contained within several hundred 5 gallon buckets stacked across the warehouse. Within the entire facility, there are 354 different types of chemicals reported into... [TRUNCATED: Refer to full Inspection Report]
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-28-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Update the "Site Emergency Action Plan" dated 1/15/16. This site plan refers to the Newark Fire Department throughout the document, however, they became the Alameda County Fire Department in 2010. Add Alameda County Department of Environmental Health 510-567-6700 to Attachment B Response Agencies on page 21. All violations noted in this HMBP inspection report are to be corrected within 30 days and proof of those corrections submitted to this office in the same time frame.
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-30-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HW GENERATOR INSPECTION.
Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-28-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine Large Quantity Generator (LQG) inspection for BASF at 38403 Cherry St. Newark. Jim Corson, Plant Manager, granted permission to conduct the inspection. Alameda County Department of Environmental Health (ACDEH) inspectors Altamirano and Garcia-LaGrille were on-site to conduct the inspection. This site is a large quantity generator of California waste and generates small quantities of RCRA waste. All violations are to be corrected within 30 days of this report and proof of these corrections submitted to this office in the same time frame.
Eval Division: Alameda County Environmental Health
Eval Program: HW

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-10-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-05-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Master Builders Solutions is the global brand of advanced chemical solutions for construction. Construction chemicals portfolio includes concrete admixtures, waterproofing solutions, concrete repair and protection solutions, performance grouts and performance flooring solutions. Facility also operates a water treatment unit that treats water slurry. Master Builder's Solution is permitted with Union Sanitary District, and maintains documentation on the PH levels of the treated waste water after it is processed. However, facility representative Johnathan Hightower could not provide testing records or identification of the influent material being processed. Hazardous waste and PH determination is required on the materials being processed into the water treatment unit. Waste streams include non-RCRA hazardous waste liquid mixes (limestone) and waste oil, hydraulic fluid from the facility maintenance shop. Hazardous Waste hauler is Safety-Kleen Systems Inc.
Eval Division: Alameda County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-24-2013
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-30-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HMBP INSPECTION.
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-22-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

Enforcement Action:

Site ID:	11105
Site Name:	Master Builders Solutions
Site Address:	38403 CHERRY ST
Site City:	NEWARK
Site Zip:	94560
Enf Action Date:	02-18-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Alameda County Environmental Health
Enf Action Program:	UNSPEC
Enf Action Source:	CERS,

Site ID:	11105
Site Name:	Master Builders Solutions
Site Address:	38403 CHERRY ST
Site City:	NEWARK
Site Zip:	94560
Enf Action Date:	12-22-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Alameda County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS,

Coordinates:

Site ID:	11105
Facility Name:	Master Builders Solutions
Env Int Type Code:	HWG
Program ID:	10452757
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	37.523660
Longitude:	-122.018040

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Alameda County Env Health
Entity Title:	Not reported
Affiliation Address:	1131 Harbor Parkway, Suite 240
Affiliation City:	Alameda
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94502-6577
Affiliation Phone:	(510) 567-6700,

Affiliation Type Desc:	Document Preparer
Entity Name:	Jonathan Hightower
Entity Title:	Not reported
Affiliation Address:	Not reported

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Owner/Operator
Entity Name:	Master Builders Solutions
Entity Title:	Operator
Affiliation Address:	38403 Cherry St
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Jonathan Hightower
Entity Title:	Not reported
Affiliation Address:	38403 Cherry street
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Master Builders Solutions
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 796-9911,
Affiliation Type Desc:	Parent Company
Entity Name:	BASF Corp
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,
Affiliation Type Desc:	Public Contact
Entity Name:	JIM CORSON
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	5107969911,
Affiliation Type Desc:	Identification Signer

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Entity Name:	Jonathan Hightower
Entity Title:	Plant Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Master Builders Solutions Construction Systems US, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Technical Contact
Entity Name:	GEORGE R. ANDIS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	3032277061,
Affiliation Type Desc:	Company Official
Entity Name:	Jim Corson
Entity Title:	Plant Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	38403 Cherry St.
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Master Builders Solutions LLC
Entity Title:	Not reported
Affiliation Address:	23700 Chagrin Blvd.
Affiliation City:	Cleveland
Affiliation State:	OH
Affiliation Country:	United States
Affiliation Zip:	44122

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Affiliation Phone: (216) 831-5500,

Name: MASTER BUILDERS SOLUTIONS
Address: 38403 CHERRY ST
City,State,Zip: NEWARK, CA 94560
Site ID: 11105
CERS ID: 94560THRSY38403
CERS Description: Toxic Release Inventory

Violations:
Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 12-22-2015
Citation: HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description: Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 02/22/2016.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 09-28-2017
Citation: HSC 6.5 25201 - California Health and Safety Code, Chapter 6.5, Section(s) 25201
Violation Description: Failure to obtain a permit or grant of interim status after generator has accumulated hazardous waste on-site for longer than 90 days.
Violation Notes: Returned to compliance on 11/02/2017. OBSERVATION: The accumulation date on the used oil drum was 2-26-2017. Facilities who generate more than 1000 kg of hazardous waste per month may store waste on site up to 90 days. "CORRECTIVE ACTION: Immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the ACDEH inspector within 30 days of this report. Immediately implement procedures to ensure hazardous waste is disposed of within the 90 day allowable time frame. Send the ACDEH inspector information regarding how the facility will ensure wastes are not held for over 90 days.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 09-28-2017
Citation: HSC 6.5 25244.21 - California Health and Safety Code, Chapter 6.5, Section(s) 25244.21
Violation Description: Failure to adequately complete, and maintain for review, all requirements of the source reduction evaluation review and plan (SB-14).
Violation Notes: Returned to compliance on 09/28/2017. OBSERVATION: The facility did not complete a source reduction report. CORRECTIVE ACTION: Complete the next required report and send the ACDEH Inspector information regarding why the last report was not completed.
Violation Division: Alameda County Environmental Health

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 07-30-2014
Citation: HSC 6.5 25189.5(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25189.5(a)
Violation Description: Failure to properly dispose of hazardous waste at an authorized location.
Violation Notes: Returned to compliance on 01/21/2015.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 07-30-2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/21/2015.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 09-28-2017
Citation: 22 CCR 15 66265.174 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.174
Violation Description: Failure to inspect weekly, areas where hazardous waste containers are stored or transferred. The owner or operator shall look for leaking containers and for deterioration of containers and the containment system caused by corrosion or other factors.
Violation Notes: Returned to compliance on 11/02/2017. OBSERVATION: The site has developed an inspection checklist and performed one inspection. The owner or operator shall inspect areas used for container storage or transfer, at least weekly, looking for leaking containers and for deterioration of containers and the containment system caused by corrosion and other factors. CORRECTIVE ACTION: Immediately begin conducting the necessary weekly inspections for all hazardous waste containers at this facility. Ensure all waste accumulation areas are inspected and container labeling is included. Send three weeks of completed inspection forms to the ACDEH inspector.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 03-05-2021
Citation: 22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description: Failure to keep records of any test results, waste analyses, or other determinations made in accordance with section 66262.11 for at least three years from the date that the waste was last sent to on-site or

THORO SYSTEM PRODUCTS (Continued) **U001597795**

	off-site treatment, storage, or disposal.
Violation Notes:	Returned to compliance on 07/13/2021. Facility could not provide test results of waste streams noted during the inspection: - Dust produced in the collection bag outdoors by the water treatment area has not had a hazardous waste determination - Filter cake debris from the water treatment area has not had a hazardous waste determination. The influent material being treated in the water treatment area has not had a hazardous waste determination. Obtain test results for the listed waste streams and provide documentation to the ACDEH inspector
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATIONS: The inventory that was submitted to CERS is incorrect. The average daily amounts have been incorrectly listed as the maximum daily amounts for most inventory items. The Chemical Location field has been left blank for most items. Some items are listed as "Pure" when they should be marked as "Mixture". The following items are not listed in the chemical inventory in CERS: Hi Sol 10 Solvent (at least 350 gal x 2); Master Matrix VMA 362 (at least 275 gal x 24); used oil (at least 55 gal x 1); Master Seal (5 gallons each); Cement Fondu (5 gallons each); Glycol Etyher EB (55 gal x 2); sodium nitrite. Acetylene is incorrectly listed in gallons. Propane is incorrectly listed as 10 gallons Largest Container, with 200 gallons Maximum Daily Amount. Compressed air from air compressors might need to be included on the inventory. CORRECTIVE ACTIONS: The entire chemical inventory must be thoroughly reviewed and resubmitted to CERS. Ensure that the Maximum [Truncated]
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	07-30-2014
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 01/21/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Violation Date:	09-28-2017
Citation:	22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description:	Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATION: Signed TSDF copies of hazardous waste manifest were not found for all manifests. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. CORRECTIVE ACTION: Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit copies of the TSDF signed copies of manifests 005288834 dated 7-13-2016 and 005284310 dated 4-20-2016 to the ACDEH inspector.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	07-24-2013
Citation:	HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description:	Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes:	Returned to compliance on 12/23/2013.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	12-10-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 12/13/2019.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable

THORO SYSTEM PRODUCTS (Continued) **U001597795**

	quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATIONS: The chemical inventory in CERS is missing inventory items. CORRECTIVE ACTIONS: See Violation #4 for more details.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATION: The annotated site map submitted to CERS does not include the outside storage of hazardous materials inside the cargo containers or the hazardous waste generated from the lab. CORRECTIVE ACTION: Revise the site map to include all hazardous materials and hazardous waste storage areas and submit the new map to CERS. Be sure to delete all other versions of the site map in CERS.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATION: One five gallon white pail in the lab waste area and one 55-gallon drum labeled "absorbents contaminated with oil" did not have an accumulation start dates. All hazardous waste containers shall be marked with the following information: 1) the words Hazardous Waste ; 2) name and address of generator; 3) hazardous properties; 4) physical state; 5) composition (contents); 6) accumulation start date. CORRECTIVE ACTION: Immediately label these containers and ensure that all containers are marked with all the required information. Since it cannot be determined how long the containers listed above have been on site, immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the ACDEH inspector within 30 days of this report.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Violation Date: 07-30-2014
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to maintain uniform hazardous waste manifest, consolidated manifest, or bills of lading copies for three years.
Violation Notes: Returned to compliance on 01/21/2015.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 09-28-2017
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 11/02/2017. OBSERVATIONS: Hazardous materials handling training occurred on 8/29/17. Emergency Response Plan training occurred on 2/9/16. CORRECTIVE ACTIONS: Document and train all employees in emergency response procedures. Submit copy of the training record to ACDEH.
Violation Division: Alameda County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 07-30-2014
Citation: 22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description: Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes: Returned to compliance on 01/21/2015.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 07-30-2014
Citation: 22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description: Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.
Violation Notes: Returned to compliance on 01/21/2015.
Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Violation Date: 07-30-2014
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter

THORO SYSTEM PRODUCTS (Continued) **U001597795**

	6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/21/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATIONS: Two large plastic tanks stored outside in the southwest corner of their property do not have labels on them. The chemical inventory in CERS is incorrect. Emergency response training last occurred on 2/9/16. CORRECTIVE ACTIONS: Label the two plastic tanks as "EMPTY" and submit a photo of the labeled tanks. This violation was corrected on-site. Update and correct the chemical inventory in CERS. See Violation #4 for more details. Document and train all employees in emergency response procedures and submit a copy of the training documentation to ACDEH.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	07-30-2014
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 01/21/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 11/02/2017. "OBSERVATION: Generator failed to properly handle, manage, label, and/or recycle used oil and fuel filters. There was no accumulation start date on the used filter drum and the drum was not properly closed (no ring). "CORRECTIVE ACTION: Generator shall immediately comply with the Title 22 regulations with regards to the proper handling, management, labeling and recycling of used oil and fuel filters. Properly close the oil filter drum and send a photo to the ACDEH inspector. Provide documentation that the oil filters have been accumulated for less than one year or immediately

THORO SYSTEM PRODUCTS (Continued) **U001597795**

	arrange for proper disposal and send documentation to the ACDEH inspector.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	22 CCR 23 66273.34 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.34
Violation Description:	Failure to label or mark each individual or container or the designated area of universal waste as required. 1) Waste batteries shall be marked with "Universal Waste-Battery(ies) . 2) Mercury containing equipment shall be marked with "Universal Waste -Mercury-Containing Equipment . 3) Lamps shall be marked with Universal Waste-Lamp(s) . 4)Each electronic devices or the container or the designated area shall be marked with Universal Waste-Electronic Device(s) . 5) Each CRTs or the container or the designated area shall be marked with "Universal Waste-CRT(s) . 6) CRT glass or the designated area shall be marked with Universal Waste-CRT glass .
Violation Notes:	Returned to compliance on 11/02/2017. " OBSERVATION: Universal wastes (batteries) are stored in a silo and are not properly labeled or packaged. A universal waste area inside the main facility has properly labeled and packaged aerosol cans and other universal waste. A generator shall label or mark universal waste with the words 'Universal Waste' and the type of waste (batteries, mercury containing equipment, lamps/bulbs, electronic devices, CRTs, aerosol cans). CORRECTIVE ACTION: Immediately label and package the universal wastes stored in the silo and ensure that all universal wastes are labeled with the required information.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	07-30-2014
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 01/21/2015.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.5 25250.19(c) - California Health and Safety Code, Chapter 6.5, Section(s) 25250.19(c)
Violation Description:	Failure to record in an operating log and retain for three years the following information for each shipment of recycled or exempted oil: 1) The name and address of the used oil recycling facility or generator claiming the oil meets the requirements of HSC 6.5 25250.1. 2) The name and address of the facility receiving the shipment. 3) The

THORO SYSTEM PRODUCTS (Continued) **U001597795**

	quantity of oil delivered. 4) The date of shipment or delivery. 5) A cross-reference to the records and documentation required under HSC 6.5 25250.1.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATION: The Owner/Operator failed to retain paperwork documenting disposal of used oil for 3 years. CORRECTIVE ACTION: The Owner/Operator shall maintain copies documenting disposal of used oil for a minimum of 3 years. The last pick up date on the used oil drum was 2-26-2016 - provide a copy of the shipping/disposal documents to the ACDEH inspector for the 2-26-2016 shipment.
Violation Division:	Alameda County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATIONS: The chemical inventory in CERS is incorrect and the site map does not include the outside storage of hazardous materials or the hazardous waste generated from the lab. CORRECTIVE ACTION: Review and update the chemical inventory in CERS. See Violation # 4 for more details. Revise the site map to include all hazardous materials and hazardous waste storage areas and submit the new map to CERS.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	09-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 11/02/2017. OBSERVATIONS: The chemical inventory in CERS is incorrect. The site map is missing hazardous materials/waste storage locations. CORRECTIVE ACTIONS: See Violation # 4 and #6 for details.
Violation Division:	Alameda County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	11105
Site Name:	Master Builders Solutions
Violation Date:	03-05-2021
Citation:	22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11
Violation Description:	Failure to determine if wastes generated are hazardous waste by using generator knowledge or applying testing method.
Violation Notes:	Returned to compliance on 07/13/2021. Facility could not provide

THORO SYSTEM PRODUCTS (Continued) **U001597795**

documentation of hazardous waste determination for the following waste streams: - Dust from indoor facility chemical mixing captured in the bag outdoors by the water treatment area, has not had a hazardous waste determination - Filter cake debris from the water treatment area has not had a hazardous waste determination. The influent material (prior to any treatment such as PH adjustment or filtration) has not had a hazardous waste determination. Perform hazardous waste determination on the observed waste streams, a lab analysis will determine hazardous waste characteristics. Hazardous waste determination includes a 96 hour aquatic bioassay, TTLC/STLC and CAM-17 metal test. Provide documentation of lab results to ACDEH inspector. The influent material being treated in the water treatment area must have a hazardous waste determination prior to being treated. Please provide a description of the treatment proce... [TRUNCATED: Refer to full Inspection Report]

Violation Division: Alameda County Environmental Health
Violation Program: HW
Violation Source: CERS,

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-05-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ACDEH inspectors arrived on site at 38403 Cherry St Newark, Master Builders Solutions to conduct an inspection for the Hazardous Materials Business Plan and Hazardous Waste Generator programs. Facility manager Johnathan assisted ACDEH with the inspection. Master Builders Solutions is the global brand of advanced chemical solutions for construction. Construction chemicals portfolio includes concrete admixtures, waterproofing solutions, concrete repair and protection solutions, performance grouts and performance flooring solutions. The facility utilizes sand as a primary base and stores several thousands of gallons of product mixtures used for formulating different types of concrete filling adhesives with the sand. Most of the variety of chemicals used in the production are contained within several hundred 5 gallon buckets stacked across the warehouse. Within the entire facility, there are 354 different types of chemicals reported into... [TRUNCATED: Refer to full Inspection Report]
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-28-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Update the "Site Emergency Action Plan" dated 1/15/16. This site plan refers to the Newark Fire Department throughout the document, however, they became the Alameda County Fire Department in 2010. Add Alameda County Department of Environmental Health 510-567-6700 to Attachment B Response Agencies on page 21. All violations noted in this HMBP inspection report are to be corrected within 30 days and proof of those corrections submitted to this office in the same time frame.
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-30-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	HW GENERATOR INSPECTION.
Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-28-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Routine Large Quantity Generator (LQG) inspection for BASF at 38403 Cherry St. Newark. Jim Corson, Plant Manager, granted permission to conduct the inspection. Alameda County Department of Environmental Health (ACDEH) inspectors Altamirano and Garcia-LaGrille were on-site to conduct the inspection. This site is a large quantity generator of California waste and generates small quantities of RCRA waste. All violations are to be corrected within 30 days of this report and proof of these corrections submitted to this office in the same time frame.
Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS,

Eval General Type:	Other/Unknown
Eval Date:	12-10-2018
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Alameda County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-05-2021
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Master Builders Solutions is the global brand of advanced chemical solutions for construction. Construction chemicals portfolio includes concrete admixtures, waterproofing solutions, concrete repair and protection solutions, performance grouts and performance flooring solutions. Facility also operates a water treatment unit that treats water slurry. Master Builder's Solution is permitted with Union Sanitary District, and maintains documentation on the PH levels of the treated waste water after it is processed. However, facility representative Johnathan Hightower could not provide testing records or identification of the influent material being processed. Hazardous waste and PH determination is required on the materials being processed into the water treatment unit. Waste streams include non-RCRA hazardous waste liquid mixes (limestone) and waste oil, hydraulic fluid from the facility maintenance shop. Hazardous Waste hauler is Safety-Kleen Systems Inc.
Eval Division:	Alameda County Environmental Health
Eval Program:	HW
Eval Source:	CERS,

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Eval General Type: Other/Unknown
Eval Date: 07-24-2013
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-30-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HMBP INSPECTION.
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-22-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP NOV LETTER
Eval Division: Alameda County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 11105
Site Name: Master Builders Solutions
Site Address: 38403 CHERRY ST
Site City: NEWARK
Site Zip: 94560
Enf Action Date: 02-18-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: UNSPEC
Enf Action Source: CERS,

Site ID: 11105
Site Name: Master Builders Solutions
Site Address: 38403 CHERRY ST
Site City: NEWARK
Site Zip: 94560
Enf Action Date: 12-22-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Alameda County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Coordinates:
Site ID: 11105

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Facility Name: Master Builders Solutions
Env Int Type Code: HWG
Program ID: 10452757
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 37.523660
Longitude: -122.018040

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Alameda County Env Health
Entity Title: Not reported
Affiliation Address: 1131 Harbor Parkway, Suite 240
Affiliation City: Alameda
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94502-6577
Affiliation Phone: (510) 567-6700,

Affiliation Type Desc: Document Preparer
Entity Name: Jonathan Hightower
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Owner/Operator
Entity Name: Master Builders Solutions
Entity Title: Operator
Affiliation Address: 38403 Cherry St
Affiliation City: Newark
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94560
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: Jonathan Hightower
Entity Title: Not reported
Affiliation Address: 38403 Cherry street
Affiliation City: Newark
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94560
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Master Builders Solutions
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Affiliation Phone:	(510) 796-9911,
Affiliation Type Desc:	Parent Company
Entity Name:	BASF Corp
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,
Affiliation Type Desc:	Public Contact
Entity Name:	JIM CORSON
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	5107969911,
Affiliation Type Desc:	Identification Signer
Entity Name:	Jonathan Hightower
Entity Title:	Plant Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Master Builders Solutions Construction Systems US, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Technical Contact
Entity Name:	GEORGE R. ANDIS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	3032277061,
Affiliation Type Desc:	Company Official
Entity Name:	Jim Corson
Entity Title:	Plant Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported

THORO SYSTEM PRODUCTS (Continued) **U001597795**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	38403 Cherry St.
Affiliation City:	Newark
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94560
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Master Builders Solutions LLC
Entity Title:	Not reported
Affiliation Address:	23700 Chagrin Blvd.
Affiliation City:	Cleveland
Affiliation State:	OH
Affiliation Country:	United States
Affiliation Zip:	44122
Affiliation Phone:	(216) 831-5500,

77
South
1/2-1
0.750 mi.
3961 ft.

SUN MICROSYSTEMS, NEWARK **ENVIROSTOR** **S117038728**
39001 CHERRY STREET **N/A**
NEWARK, CA 94560

Relative:
Lower

Actual:
21 ft.

ENVIROSTOR:

Name:	SUN MICROSYSTEMS, NEWARK
Address:	39001 CHERRY STREET
City,State,Zip:	NEWARK, CA 94560
Facility ID:	60002089
Status:	Refer: EPA
Status Date:	05/01/2015
Site Code:	202018
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	86
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Daniel Murphy
Division Branch:	Cleanup Berkeley
Assembly:	20, 25
Senate:	10
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	37.51675
Longitude:	-122.0061
APN:	901 011006800, 901 011006900, 901 018501200, 901 018501303, 901

SUN MICROSYSTEMS, NEWARK (Continued) **S117038728**

018501306, 901 018501308, 901 018501309, 901 018501400
Past Use: AGRICULTURAL - ORCHARD
Potential COC: DDE DDT Toxaphene
Confirmed COC: DDE DDT Toxaphene
Potential Description: SOIL
Alias Name: 901 011006800
Alias Type: APN
Alias Name: 901 011006900
Alias Type: APN
Alias Name: 901 018501200
Alias Type: APN
Alias Name: 901 018501303
Alias Type: APN
Alias Name: 901 018501306
Alias Type: APN
Alias Name: 901 018501308
Alias Type: APN
Alias Name: 901 018501309
Alias Type: APN
Alias Name: 901 018501400
Alias Type: APN
Alias Name: CAN000905776
Alias Type: EPA Identification Number
Alias Name: 202018
Alias Type: Project Code (Site Code)
Alias Name: 60002089
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 12/06/1999
Comments: Agricultural site. VOCs in groundwater not linked to site use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 12/08/2003
Comments: DTSC is overseeing cleanup at this site

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Reassessment
Completed Date: 09/26/2014
Comments: Reassessment conducted by DTSC on EPA's behalf to determine if the site should be considered for the National Priorities List. DTSC concluded that no further federal assessment under CERCLA was necessary as DTSC had previously overseen environmental investigation and cleanup activities as part of the Ohlone Community College District Site. The main campus portion of the site was approved for unrestricted use. The adjacent agricultural parcel has a land use covenant restricting future reuse from sensitive uses.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported

SUN MICROSYSTEMS, NEWARK (Continued) **S117038728**

Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

78
WSW
1/2-1
0.789 mi.
4166 ft.

COLUMBUS COATED FABRICS **ENVIROSTOR** **S118756463**
38083 CHERRY STREET **N/A**
NEWARK, CA 94560

Relative:
Lower

Actual:
22 ft.

ENVIROSTOR:
Name: COLUMBUS COATED FABRICS
Address: 38083 CHERRY STREET
City,State,Zip: NEWARK, CA 94560
Facility ID: 1280013
Status: No Action Required
Status Date: 06/01/1987
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 7.3
NPL: NO
Regulatory Agencies: RWQCB 2 - San Francisco Bay
Lead Agency: RWQCB 2 - San Francisco Bay
Program Manager: Denise Tsuji
Supervisor: Denise Tsuji
Division Branch: Cleanup Berkeley
Assembly: 25
Senate: 10
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.52488
Longitude: -122.0219
APN: 092A-2300-020-01, 92A-2300-20-1
Past Use: NONE SPECIFIED
Potential COC: * HALOGENATED SOLVENTS * ALKALINE SOLUTION WITHOUT METALS * Sludge - Paint * UNSPECIFIED SOLVENT MIXTURES * ADHESIVES * UNSPECIFIED ORGANIC LIQUID MIXTURE Polychlorinated biphenyls (PCBs
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported

COLUMBUS COATED FABRICS (Continued) **S118756463**

Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

79
South
1/2-1
0.815 mi.
4301 ft.

SALINAS TRUCK STOP
39201 CHERRY
NEWARK, CA 94560

ENVIROSTOR **S103656898**
CHMIRS **N/A**
HIST CORTESE
CERS

Relative:
Lower

Actual:
21 ft.

ENVIROSTOR:
Name: AGILENT TECHNOLOGIES
Address: 39201 CHERRY STREET
City,State,Zip: NEWARK, CA 94560
Facility ID: 71002717
Status: Inactive - Needs Evaluation
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Berkeley
Assembly: 25
Senate: 10
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.51866
Longitude: -122.0072
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD980895155
Alias Type: EPA Identification Number
Alias Name: 110000783322
Alias Type: EPA (FRS #)
Alias Name: 71002717
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported

SALINAS TRUCK STOP (Continued) **S103656898**

Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CHMIRS:

Name:	Not reported
Address:	39201 CHERRY ST
City,State,Zip:	NEWARK, CA 95131
OES Incident Number:	9-0545
OES notification:	02/05/1999
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	N/A
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1999
Agency:	Hewlett Packard
Incident Date:	2/5/199912:00:00 AM
Admin Agency:	Newark Fire Department
Amount:	Not reported
Contained:	Yes

SALINAS TRUCK STOP (Continued) **S103656898**

Site Type:	Merchant/Business
E Date:	Not reported
Substance:	Chlorine
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	350
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Valve failure in distribution box in manufacturing FAB, scrubber system handled, never released into atmosphere, building evacuated as precaution, employees staged and all clear given, people returned to work

Name:	Not reported
Address:	39201 CHERRY ST
City,State,Zip:	NEWARK, CA
OES Incident Number:	084
OES notification:	Not reported
OES Date:	3/3/1994
OES Time:	04:28:31 PM
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported

SALINAS TRUCK STOP (Continued) **S103656898**

Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Not reported
Containment:	Not reported
What Happened:	Not reported
Type:	VAPOR
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1994
Agency:	hewlitt packard
Incident Date:	030394 1428
Admin Agency:	Not reported
Amount:	3 to 15 ppm for 22 minutes
Contained:	Not reported
Site Type:	Not reported
E Date:	Not reported
Substance:	solvent vapor
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	equipment failure/malfunction
Name:	Not reported
Address:	39201 CHERRY ST
City,State,Zip:	NEWARK, CA 94560
OES Incident Number:	8-2236
OES notification:	05/11/1998
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported

SALINAS TRUCK STOP (Continued) **S103656898**

Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1998
Agency:	Hewlett Packard
Incident Date:	5/11/199812:00:00 AM
Admin Agency:	Newark Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Dichlorsilane
Gallons:	0.000000
Ounces:	0.5
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	400
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Release from cylandar to gas cabinet & to scrubbers; believe no release to atmosphere. Evacuated building personnel only. FD on scene.
Name:	Not reported
Address:	39201 CHERRY ST
City,State,Zip:	NEWARK, CA 94560
OES Incident Number:	8-2438

SALINAS TRUCK STOP (Continued) **S103656898**

OES notification:	05/25/1998
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Not possibley
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1998
Agency:	Newark FD
Incident Date:	5/25/199812:00:00 AM
Admin Agency:	Newark Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Merchant/Business
E Date:	Not reported
Substance:	chloine
CUFT:	1
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported

SALINAS TRUCK STOP (Continued) **S103656898**

#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	while changing a bottle, the line leaked.
Name:	Not reported
Address:	39201 CHERRY ST
City,State,Zip:	NEWARK, CA 94560
OES Incident Number:	0-3916
OES notification:	08/30/2000
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	n/a
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2000
Agency:	Newark Fire
Incident Date:	8/30/200012:00:00 AM
Admin Agency:	Newark Fire Department
Amount:	Not reported

SALINAS TRUCK STOP (Continued) **S103656898**

Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Phosphine
CUFT:	10
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	20
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Fire responded to phosphine alarm. Upon arrival alarm equip showed 2 PPM. Fire personnel monitored and found no traces of substance.

Name:	Not reported
Address:	39201 CHERRY ST
City,State,Zip:	NEWARK, CA 94560
OES Incident Number:	1276
OES notification:	Not reported
OES Date:	12/21/1993
OES Time:	08:46:56 PM
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported

SALINAS TRUCK STOP (Continued) **S103656898**

Facility Telephone:	Not reported
Waterway Involved:	NO
Waterway:	air release
Spill Site:	Not reported
Cleanup By:	Not reported
Containment:	Not reported
What Happened:	Not reported
Type:	CHEMICAL
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1993
Agency:	hewlett packard
Incident Date:	Not reported
Admin Agency:	Not reported
Amount:	unknown
Contained:	NO
Site Type:	Not reported
E Date:	Not reported
Substance:	hydrogen chloride gas
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	before 7:30 to 9:30 am a release was in progress. button for dicloroxyzlene was pushed and the scrubber was not turned on.

Name:	Not reported
Address:	39201 CHERRY ST
City,State,Zip:	NEWARK, CA 94560
OES Incident Number:	9-4353
OES notification:	10/13/1999
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported

SALINAS TRUCK STOP (Continued) **S103656898**

Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	N/A
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1999
Agency:	Hewlet Packard
Incident Date:	10/13/199912:00:00 AM
Admin Agency:	Newark Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Arsine
Grams:	1
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Negligible release to atmosphere due to leak in epitaxial reactor for approx 2 min
Name:	Not reported
Address:	39201 CHERRY ST
City,State,Zip:	NEWARK, CA 94560

SALINAS TRUCK STOP (Continued) **S103656898**

OES Incident Number:	8-3806
OES notification:	08/20/1998
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Not possible
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1998
Agency:	Hewlett Packard
Incident Date:	8/20/199812:00:00 AM
Admin Agency:	Newark Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	hydrogen chloride
Gallons:	0.000000
Grams:	0.5
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	200
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported

SALINAS TRUCK STOP (Continued) **S103656898**

#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Unknown leak cause. and .05 gram to the atmosphere after going through scrubbers. 200 employees evacuated, now all back to work by 1100.
	Not reported
Name:	Not reported
Address:	39201 CHERRY ST
City,State,Zip:	NEWARK, CA
OES Incident Number:	9-4746
OES notification:	11/08/1999
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	NA
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1999

SALINAS TRUCK STOP (Continued) **S103656898**

Agency:	Agilent Technologies
Incident Date:	11/8/199912:00:00 AM
Admin Agency:	Newark Fire Department
Amount:	Not reported
Contained:	No
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Arsine
Grams:	0.162
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	A faulty gas cylinder of Arsine started leaking and is continuing however a very slow leak. Fire department was on scene and the makes of the cylinder, (BOC) is enrt to pick it up.

HIST CORTESE:

edr_fname:	SALINAS TRUCK STOP
edr_fadd1:	39201 CHERRY
City,State,Zip:	NEWARK, CA 94560
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	2485

CERS:

Name:	AGILENT TECHNOLOGIES
Address:	39201 CHERRY STREET
City,State,Zip:	NEWARK, CA 94560-4967
Site ID:	449918
CERS ID:	110000783322
CERS Description:	US EPA Air Emission Inventory System (EIS)

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	MITCH A COLE
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

SALINAS TRUCK STOP (Continued) **S103656898**

Affiliation Type Desc:	Public Contact
Entity Name:	KELLY MITCHELL
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

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80 South 1/2-1 0.893 mi. 4713 ft.

CERRO METAL PRODUCTS
6707 MOWRY
NEWARK, CA 94560

ENVIROSTOR S100932169
Cortese N/A
ENF
HIST CORTESE

Relative: Lower

Actual: 19 ft.

ENVIROSTOR:

Name:	CERRO METAL PRODUCTS COMPANY
Address:	6707 MOWRY AVENUE
City,State,Zip:	NEWARK, CA 94560
Facility ID:	1330035
Status:	Refer: RWQCB
Status Date:	09/13/2013
Site Code:	300189
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Berkeley
Assembly:	25
Senate:	10
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.51968
Longitude:	-122.0103
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	* Metals - Sludge * ACID SOLUTION 2>PH WITH METALS * UNSPECIFIED OIL CONTAINING WASTE * WASTE OIL & MIXED OIL * FLY ASH, BOTTOM ASH & RETORT ASH * OTHER INORGANIC SOLID WASTE Lead Nickel
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported

CERRO METAL PRODUCTS (Continued) **S100932169**

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

CORTESE:

Name:	CERRO METAL PRODUCTS
Address:	6707 MOWRY
City,State,Zip:	NEWARK, CA 94560
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	Not reported
Site/Facility Type:	Not reported
Cleanup Status:	Not reported
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	CORTESE
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	2
WID Id:	2 019041N01
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Cease Desist Orders & Cleanup Abatement Orders

Name:	CERRO METAL PRODUCTS
Address:	6707 MOWRY
City,State,Zip:	NEWARK, CA 94560
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	Not reported
Site/Facility Type:	Not reported
Cleanup Status:	Not reported
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	CORTESE
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	2
WID Id:	2 019041N01

CERRO METAL PRODUCTS (Continued) **S100932169**

Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Cease Desist Orders & Cleanup Abatement Orders
Name:	CERRO METAL PRODUCTS
Address:	6707 MOWRY
City,State,Zip:	NEWARK, CA 94560
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	Not reported
Site/Facility Type:	Not reported
Cleanup Status:	Not reported
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	CORTESE
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	2
WID Id:	2 019041N01
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Cease Desist Orders & Cleanup Abatement Orders
Name:	CERRO METAL PRODUCTS
Address:	6707 MOWRY
City,State,Zip:	NEWARK, CA 94560
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	Not reported
Site/Facility Type:	Not reported
Cleanup Status:	Not reported
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	CORTESE
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	2
WID Id:	2 019041N01
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Cease Desist Orders & Cleanup Abatement Orders

ENF:

Name:	CERRO METAL PRODUCTS
Address:	6707 MOWRY

CERRO METAL PRODUCTS (Continued) **S100932169**

City,State,Zip:	NEWARK, CA 94560
Region:	2
Facility Id:	213951
Agency Name:	Cerro Metal Products
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.518548
Place Longitude:	-122.010866
SIC Code 1:	3341
SIC Desc 1:	Secondary Smelting and Refining of Nonferrous Metals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 019041N01
Reg Measure Id:	162473
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported

CERRO METAL PRODUCTS (Continued) **S100932169**

WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	225484
Region:	2
Order / Resolution Number:	R2-2000-0051
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	06/21/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 2 019041N01
Description:	SCR order 00-051 is the final order for the site. This action is not be be included in EPA quarterly report.
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Name:	CERRO METAL PRODUCTS
Address:	6707 MOWRY
City,State,Zip:	NEWARK, CA 94560
Region:	2
Facility Id:	213951
Agency Name:	Cerro Metal Products
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.518548
Place Longitude:	-122.010866
SIC Code 1:	3341
SIC Desc 1:	Secondary Smelting and Refining of Nonferrous Metals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported

CERRO METAL PRODUCTS (Continued) **S100932169**

# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 019041N01
Reg Measure Id:	162473
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	225420
Region:	2
Order / Resolution Number:	00-051
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	06/21/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 2 019041N01
Description:	Order 00-051 for final remedial actions
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1

CERRO METAL PRODUCTS (Continued) **S100932169**

Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Name:	CERRO METAL PRODUCTS
Address:	6707 MOWRY
City,State,Zip:	NEWARK, CA 94560
Region:	2
Facility Id:	213951
Agency Name:	Cerro Metal Products
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.518548
Place Longitude:	-122.010866
SIC Code 1:	3341
SIC Desc 1:	Secondary Smelting and Refining of Nonferrous Metals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 019041N01
Reg Measure Id:	162473
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported

CERRO METAL PRODUCTS (Continued) **S100932169**

301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	223287
Region:	2
Order / Resolution Number:	94-013
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	01/19/1994
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 2 019041N01
Description:	SCR-
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Name:	CERRO METAL PRODUCTS
Address:	6707 MOWRY
City,State,Zip:	NEWARK, CA 94560
Region:	2
Facility Id:	213951
Agency Name:	Cerro Metal Products
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	37.518548
Place Longitude:	-122.010866
SIC Code 1:	3341
SIC Desc 1:	Secondary Smelting and Refining of Nonferrous Metals
SIC Code 2:	Not reported

CERRO METAL PRODUCTS (Continued) **S100932169**

SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 019041N01
Reg Measure Id:	162473
Reg Measure Type:	Unregulated
Region:	2
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	222412
Region:	2
Order / Resolution Number:	91-133
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	09/18/1991
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported

CERRO METAL PRODUCTS (Continued) **S100932169**

Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	Enforcement - 2 019041N01
Description:	SCR-SOIL & GW CHARACTERIZATION AND REMEDIAL MEASURES.
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

HIST CORTESE:

edr_fname:	CERRO METAL PRODUCTS COMP
edr_fadd1:	6707 MOWRY
City,State,Zip:	NEWARK, CA 94560
Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01330035

edr_fname:	SCR-CERRO METAL PRODUCTS
edr_fadd1:	6707 MOWRY
City,State,Zip:	NEWARK, CA 94560
Region:	CORTESE
Facility County Code:	1
Reg By:	WBC&D
Reg Id:	2 019041N01

L81 **Notify 65** **S100179680**
NNW **37541 BLACOW ROAD** **N/A**
1/2-1 **FREMONT, CA 92507**
0.910 mi.
4805 ft. **Site 1 of 3 in cluster L**

Relative: **Higher**
Actual: **40 ft.**

NOTIFY 65:

Name:	Not reported
Address:	37541 BLACOW ROAD
City,State,Zip:	FREMONT, CA 92507
Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported
Global ID:	Not reported
Status:	Not reported

L82 **Notify 65** **S100179672**
NNW **37541 BLACOW RD.** **N/A**
1/2-1 **FREMONT, CA 92507**
0.910 mi.
4805 ft. **Site 2 of 3 in cluster L**

Relative:
Higher

Actual:
40 ft.

NOTIFY 65:

Name:	Not reported
Address:	37541 BLACOW RD.
City,State,Zip:	FREMONT, CA 92507
Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported
Global ID:	Not reported
Status:	Not reported

L83 **DESERET INDUSTRIES/THRIFT STORE** **CPS-SLIC** **S100179673**
NNW **37541 BLACOW ROAD** **EMI** **N/A**
1/2-1 **FREMONT, CA 94538** **Notify 65**
0.910 mi. **CERS**
4805 ft. **Site 3 of 3 in cluster L**

Relative:
Higher

Actual:
40 ft.

SLIC REG 2:

Region:	2
Facility ID:	Not reported
Facility Status:	Post remedial action monitoring
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

EMI:

Name:	CHURCH OF JESUS CHRIST OF LATT
Address:	37541 BLACOW ROAD
City,State,Zip:	FREMONT, CA 94538
Year:	1987
County Code:	1
Air Basin:	SF
Facility ID:	1248
Air District Name:	BA
SIC Code:	2033
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0

DESERET INDUSTRIES/THRIFT STORE (Continued) **S100179673**

NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

NOTIFY 65:
Name: Not reported
Address: 37541 BLACOW ROAD
City,State,Zip: FREMONT, CA 92507
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported
Global ID: Not reported
Status: Not reported

CERS:
Name: DESERET INDUSTRIES/THRIFT STORE
Address: 37541 BLACOW ROAD
City,State,Zip: FREMONT, CA 94538
Site ID: 193584
CERS ID: SL0600144536
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: RANGARAJAN SAMPATH - ALAMEDA COUNTY WATER DISTRICT
Entity Title: Not reported
Affiliation Address: 43885 SOUTH GRIMMER BLVD
Affiliation City: FREMONT
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Cherie McCaulou - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET, SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

84
NNE
1/2-1
0.964 mi.
5091 ft.

Relative:
Higher

Actual:
48 ft.

STATE CLEANERS
4565 EGGERS DR
FREMONT, CA 94536

ENVIROSTOR
CPS-SLIC
VCP
DRYCLEANERS
HAZNET
CERS
HWTS

S105030856
N/A

ENVIROSTOR:

Name:	STATE CLEANERS
Address:	4565 EGGERS DRIVE
City,State,Zip:	FREMONT, CA 94536
Facility ID:	60002272
Status:	Active
Status Date:	11/23/2015
Site Code:	202068
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Yongsheng (Johnny) Sun
Supervisor:	John Karachewski
Division Branch:	Cleanup Berkeley
Assembly:	, 20
Senate:	, 10
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.54559
Longitude:	-122.0019
APN:	501 066708700
Past Use:	DRY CLEANING
Potential COC:	Tetrachloroethylene (PCE
Confirmed COC:	Tetrachloroethylene (PCE
Potential Description:	OTH, SOIL, SV
Alias Name:	501 066708700
Alias Type:	APN
Alias Name:	T10000004127
Alias Type:	GeoTracker Global ID
Alias Name:	202068
Alias Type:	Project Code (Site Code)
Alias Name:	60002272
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/27/2017
Comments:	Final 2017-2018 Oversight Cost Estimation
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	06/18/2018
Comments:	Not reported

STATE CLEANERS (Continued) **S105030856**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/01/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/02/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/10/2021
Comments: sent

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 02/26/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/26/2020
Comments: DTSC resume VCA with RP to continue performing a refined site characterization.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 11/23/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 02/02/2011
Comments: This document was not prepared under DTSC oversight. Workplan outlining the collection of 5 soil gas samples on site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/15/2010
Comments: This document was not prepared with DTSC oversight. This report presents the analytical results and interpretations following the collection of four soil samples onsite.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 05/24/2011
Comments: Document was not prepared with DTSC oversight. This workplan outlines

STATE CLEANERS (Continued) **S105030856**

soil sampling of the onsite sanitary sewer line and soil stockpile.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/21/2011
Comments: Document was not prepared with DTSC oversight. Report of analytical results from soil sampling under on site sanitary sewer line.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 09/06/2011
Comments: Document was not prepared with DTSC oversight. Workplan outlines the collection of soil and grab groundwater samples at three locations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 03/29/2011
Comments: Document was not prepared under DTSC oversight. Report presents analyticals and interpretations from five soil boring and three soil gas locations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 03/05/2012
Comments: Document was not prepared with DTSC oversight. Report describes soil samples and groundwater grab samples collected at three locations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/14/2013
Comments: Document was not prepared under DTSC oversight. Report describing the installation of two nested semi-permanent vapor probes screened at 3 depths per probe and a meeting that occurred between the responsible party and Alameda County Water District on August 6, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 11/08/2013
Comments: Document was not prepared with DTSC oversight. Work Plan outlining the installation of four semi-permanent soil vapor probes screened at two depths and analyzed for VOC's by EPA Method TO-15 and Fixed Gases by ASTM Method D1946.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/23/2013
Comments: Document was not prepared with DTSC oversight. Soil vapor monitoring report of two on site nested probes screened at 3 depths.

Completed Area Name: PROJECT WIDE

STATE CLEANERS (Continued) **S105030856**

Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/21/2014
Comments: Document was not prepared with DTSC oversight. Report describes the installation, sampling, and analytical concentrations from four on site nested soil vapor probes.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/12/2015
Comments: Document was not prepared with DTSC oversight. Letter from responsible party to Alameda County Water District to request site closure.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 03/31/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 12/01/2016
Comments: Community profile was completed by DTSC Public Participation staff following the mailing of a survey. The survey focused on community demographics and the level of interest in the site. 121 of 603 surveys were returned which is a 20.1% response rate. A fact sheet will be mailed and a public notice published in the newspaper to notify the public of the beginning of the public comment period for the draft RAW. The fact sheet, public notice, and community profile will be available with the draft RAW.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 02/09/2017
Comments: Final Site Characterization workplan was approved by DTSC for additional investigation of the State Cleaners Site. A pilot Soil Vapor Extraction system will be operated as part of the work.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 07/26/2017
Comments: Work notice for site characterization activities including a soil vapor extraction pilot test and groundwater and soil vapor monitoring wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 01/16/2018
Comments: Performed radius of capture testing using helium. The SVE testing indicated not effectively pull vapors.Pilot testing was paused until new options.

STATE CLEANERS (Continued) **S105030856**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 02/10/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/27/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 07/05/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/16/2015
Comments: Letter written by Alameda Country Water District (ACWD) in response to responsible parties' request for low threat closure. In letter ACWB cites concerns about site and intention to transfer the case to the Regional Water Board or DTSC for further oversight.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 02/21/2018
Comments: preharp completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 06/23/2016
Comments: Finalized voluntary cleanup agreement between Bob Reeder and DTSC for the clean up of the State Cleaners Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 06/20/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/13/2017
Comments: Change of Project Manager to Johnny Sun.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Workplan
Future Due Date: 2023
Schedule Area Name: Not reported

STATE CLEANERS (Continued) **S105030856**

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CPS-SLIC:

Name:	STATE CLEANERS
Address:	4565 EGGERS DRIVE
City,State,Zip:	FREMONT, CA 94538
Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	06/01/2012
Global Id:	T10000004127
Lead Agency:	ALAMEDA COUNTY WATER DISTRICT
Lead Agency Case Number:	0544
Latitude:	37.5455978
Longitude:	-122.0019622
Case Type:	Cleanup Program Site
Case Worker:	SZ
Local Agency:	ALAMEDA COUNTY WATER DISTRICT
RB Case Number:	01S0727
File Location:	Not reported
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil, Soil Vapor
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

VCP:

Name:	STATE CLEANERS
Address:	4565 EGGERS DRIVE
City,State,Zip:	FREMONT, CA 94536
Facility ID:	60002272
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Yongsheng (Johnny) Sun
Supervisor:	John Karachewski
Division Branch:	Cleanup Berkeley
Site Code:	202068
Assembly:	, 20
Senate:	, 10
Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	11/23/2015
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.54559 / -122.0019
APN:	501 066708700
Past Use:	DRY CLEANING
Potential COC:	30022

STATE CLEANERS (Continued) **S105030856**

Confirmed COC: 30022
Potential Description: OTH, SOIL, SV
Alias Name: 501 066708700
Alias Type: APN
Alias Name: T10000004127
Alias Type: GeoTracker Global ID
Alias Name: 202068
Alias Type: Project Code (Site Code)
Alias Name: 60002272
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/27/2017
Comments: Final 2017-2018 Oversight Cost Estimation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/18/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/01/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/02/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/10/2021
Comments: sent

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 02/26/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/26/2020
Comments: DTSC resume VCA with RP to continue performing a refined site characterization.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application

STATE CLEANERS (Continued) **S105030856**

Completed Date: 11/23/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 02/02/2011
Comments: This document was not prepared under DTSC oversight. Workplan outlining the collection of 5 soil gas samples on site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/15/2010
Comments: This document was not prepared with DTSC oversight. This report presents the analytical results and interpretations following the collection of four soil samples onsite.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 05/24/2011
Comments: Document was not prepared with DTSC oversight. This workplan outlines soil sampling of the onsite sanitary sewer line and soil stockpile.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/21/2011
Comments: Document was not prepared with DTSC oversight. Report of analytical results from soil sampling under on site sanitary sewer line.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 09/06/2011
Comments: Document was not prepared with DTSC oversight. Workplan outlines the collection of soil and grab groundwater samples at three locations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 03/29/2011
Comments: Document was not prepared under DTSC oversight. Report presents analyticals and interpretations from five soil boring and three soil gas locations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 03/05/2012
Comments: Document was not prepared with DTSC oversight. Report describes soil samples and groundwater grab samples collected at three locations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report

STATE CLEANERS (Continued) **S105030856**

Completed Date:	05/14/2013
Comments:	Document was not prepared under DTSC oversight. Report describing the installation of two nested semi-permanent vapor probes screened at 3 depths per probe and a meeting that occurred between the responsible party and Alameda County Water District on August 6, 2012.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	11/08/2013
Comments:	Document was not prepared with DTSC oversight. Work Plan outlining the installation of four semi-permanent soil vapor probes screened at two depths and analyzed for VOC's by EPA Method TO-15 and Fixed Gases by ASTM Method D1946.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	08/23/2013
Comments:	Document was not prepared with DTSC oversight. Soil vapor monitoring report of two on site nested probes screened at 3 depths.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	05/21/2014
Comments:	Document was not prepared with DTSC oversight. Report describes the installation, sampling, and analytical concentrations from four on site nested soil vapor probes.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	06/12/2015
Comments:	Document was not prepared with DTSC oversight. Letter from responsible party to Alameda County Water District to request site closure.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	03/31/2016
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Community Profile
Completed Date:	12/01/2016
Comments:	Community profile was completed by DTSC Public Participation staff following the mailing of a survey. The survey focused on community demographics and the level of interest in the site. 121 of 603 surveys were returned which is a 20.1% response rate. A fact sheet will be mailed and a public notice published in the newspaper to notify the public of the beginning of the public comment period for the draft RAW. The fact sheet, public notice, and community profile will be available with the draft RAW.

STATE CLEANERS (Continued) **S105030856**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 02/09/2017
Comments: Final Site Characterization workplan was approved by DTSC for additional investigation of the State Cleaners Site. A pilot Soil Vapor Extraction system will be operated as part of the work.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 07/26/2017
Comments: Work notice for site characterization activities including a soil vapor extraction pilot test and groundwater and soil vapor monitoring wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 01/16/2018
Comments: Performed radius of capture testing using helium. The SVE testing indicated not effectively pull vapors.Pilot testing was paused until new options.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 02/10/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/27/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 07/05/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/16/2015
Comments: Letter written by Alameda Country Water District (ACWD) in response to responsible parties' request for low threat closure. In letter ACWB cites concerns about site and intention to transfer the case to the Regional Water Board or DTSC for further oversight.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 02/21/2018
Comments: preharp completed

STATE CLEANERS (Continued) **S105030856**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 06/23/2016
Comments: Finalized voluntary cleanup agreement between Bob Reeder and DTSC for the clean up of the State Cleaners Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 06/20/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/13/2017
Comments: Change of Project Manager to Johnny Sun.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Workplan
Future Due Date: 2023
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

DRYCLEANERS:
Name: STATE CLEANERS
Address: 4565 EGGERS DR
City,State,Zip: FREMONT, CA 945360000
EPA Id: CAD981582471
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 04/10/1987
Facility Active: No
Inactive Date: 06/30/2007
Facility Addr2: Not reported
Owner Name: THOMAS S. & SARAH J. KIM
Owner Address: 193 RABBIT CT
Owner Address 2: Not reported
Owner Telephone: 5104389489
Contact Name: THOMAS S. KIM/OWNER
Contact Address: 5255 MOWRY AVE STE P
Contact Address 2: Not reported
Contact Telephone: 5107934053
Contact Fax: Not reported
Mailing Name: Not reported
Mailing Address 1: 5255 MOWRY AVE SUITE P
Mailing Address 2: Not reported
Mailing City: FREMONT
Mailing State: CA
Mailing Zip: 945380000

STATE CLEANERS (Continued) **S105030856**

Owner Fax: Not reported
Region Code: 2
Latitude: 37.545524
Longitude: -122.001999

HAZNET:
Name: STATE CLEANERS
Address: 4565 EGGERS DR
Address 2: Not reported
City,State,Zip: FREMONT, CA 945360000
Contact: THOMAS S. KIM/OWNER
Telephone: 5107934053
Mailing Name: Not reported
Mailing Address: 5255 MOWRY AVE SUITE P

Year: 2007
Gepaid: CAD981582471
TSD EPA ID: CA0000084517
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1525

Year: 2006
Gepaid: CAD981582471
TSD EPA ID: CA0000084517
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.0625

Year: 2006
Gepaid: CAD981582471
TSD EPA ID: CA0000084517
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.075

Year: 2005
Gepaid: CAD981582471
TSD EPA ID: CA0000084517
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.0675

Year: 2001
Gepaid: CAD981582471
TSD EPA ID: CA0000084517
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.2925

Year: 2000
Gepaid: CAD981582471
TSD EPA ID: CAD981397417
CA Waste Code: 211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)

STATE CLEANERS (Continued) **S105030856**

Disposal Method: R01 - Recycler
Tons: 0.0667

Year: 2000
Gepaid: CAD981582471
TSD EPA ID: CA0000084517
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: -
Tons: 0.0975

Year: 1999
Gepaid: CAD981582471
TSD EPA ID: CA0000084517
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.4875

Year: 1998
Gepaid: CAD981582471
TSD EPA ID: CAD053044053
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.0975

Year: 1998
Gepaid: CAD981582471
TSD EPA ID: CA0000084517
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01 - Transfer Station
Tons: 0.39

Click this hyperlink while viewing on your computer to access
8 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 1995
Gen EPA ID: CAD981582471

Shipment Date: 19951120
Creation Date: 7/26/1996 0:00:00
Receipt Date: 19951120
Manifest ID: 95773313
Trans EPA ID: ILD984908202
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD053044053
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H01 - Transfer Station
Quantity Tons: 0.195
Waste Quantity: 390
Quantity Unit: P

STATE CLEANERS (Continued) **S105030856**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950915
Creation Date:	4/3/1996 0:00:00
Receipt Date:	19950915
Manifest ID:	93798366
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2925
Waste Quantity:	585
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950803
Creation Date:	4/2/1996 0:00:00
Receipt Date:	19950803
Manifest ID:	95633718
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.094
Waste Quantity:	188
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950606
Creation Date:	4/2/1996 0:00:00
Receipt Date:	19950606

STATE CLEANERS (Continued) **S105030856**

Manifest ID:	95416959
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.195
Waste Quantity:	390
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950404
Creation Date:	3/29/1996 0:00:00
Receipt Date:	19950404
Manifest ID:	95095014
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950308
Creation Date:	3/29/1996 0:00:00
Receipt Date:	19950308
Manifest ID:	95088688
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported

STATE CLEANERS (Continued) **S105030856**

Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950124
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19950124
Manifest ID:	95042973
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAD981582471
Shipment Date:	20070320
Creation Date:	9/20/2007 18:30:30
Receipt Date:	20070322
Manifest ID:	000251595SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1225

STATE CLEANERS (Continued) **S105030856**

Waste Quantity:	245
Quantity Unit:	P
Additional Code 1:	D040
Additional Code 2:	D039
Additional Code 3:	D007
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070209
Creation Date:	8/9/2007 18:30:38
Receipt Date:	20070214
Manifest ID:	000195678SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	D040
Additional Code 2:	D039
Additional Code 3:	D007
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2000
Gen EPA ID:	CAD981582471
Shipment Date:	20001102
Creation Date:	1/12/2001 0:00:00
Receipt Date:	20001107
Manifest ID:	20526542
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	- Not reported
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

STATE CLEANERS (Continued) **S105030856**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000210
Creation Date:	8/9/2000 0:00:00
Receipt Date:	20000225
Manifest ID:	99705131
Trans EPA ID:	CAR000030841
Trans Name:	Not reported
Trans 2 EPA ID:	CAD076548635
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981397417
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD981397417
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	R01 - Recycler
Quantity Tons:	0.0667
Waste Quantity:	16
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000210
Creation Date:	8/9/2000 0:00:00
Receipt Date:	20000225
Manifest ID:	99705131
Trans EPA ID:	CAR000030841
Trans Name:	Not reported
Trans 2 EPA ID:	CAD076548635
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981397417
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD981397417
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	R01 - Recycler
Quantity Tons:	0
Waste Quantity:	0
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAD981582471

STATE CLEANERS (Continued) **S105030856**

Shipment Date:	19981111
Creation Date:	1/21/1999 0:00:00
Receipt Date:	19981119
Manifest ID:	98560813
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19980722
Creation Date:	9/15/1998 0:00:00
Receipt Date:	19980728
Manifest ID:	98188061
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19980430
Creation Date:	6/26/1998 0:00:00
Receipt Date:	19980512
Manifest ID:	97363497
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517

STATE CLEANERS (Continued) **S105030856**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980305
Creation Date:	5/8/1998 0:00:00
Receipt Date:	19980311
Manifest ID:	97396473
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980108
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19980108
Manifest ID:	97348699
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P

STATE CLEANERS (Continued) **S105030856**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1999
Gen EPA ID:	CAD981582471
Shipment Date:	19991104
Creation Date:	1/11/2000 0:00:00
Receipt Date:	19991109
Manifest ID:	99518524
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990708
Creation Date:	9/1/1999 0:00:00
Receipt Date:	19990712
Manifest ID:	99233417
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.195
Waste Quantity:	390
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

STATE CLEANERS (Continued) **S105030856**

Shipment Date:	19990317
Creation Date:	5/20/1999 0:00:00
Receipt Date:	19990323
Manifest ID:	98668265
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19990105
Creation Date:	3/17/1999 0:00:00
Receipt Date:	19990108
Manifest ID:	98625274
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAD981582471

Shipment Date:	20060921
Creation Date:	3/30/2007 13:31:52
Receipt Date:	20060925
Manifest ID:	001051472JJK
Trans EPA ID:	TXR000050930

STATE CLEANERS (Continued) **S105030856**

Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC 000760
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	D040
Additional Code 2:	D039
Additional Code 3:	D007
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060420
Creation Date:	7/29/2006 18:31:14
Receipt Date:	20060424
Manifest ID:	25021662
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0625
Waste Quantity:	125
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAD981582471
Shipment Date:	20051206
Creation Date:	1/4/2007 18:30:12
Receipt Date:	20051215
Manifest ID:	24631357
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517

STATE CLEANERS (Continued) **S105030856**

Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050624
Creation Date:	9/16/2005 18:31:41
Receipt Date:	20050701
Manifest ID:	24357411
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAD981582471

Shipment Date:	20011213
Creation Date:	2/20/2002 0:00:00
Receipt Date:	20011218
Manifest ID:	21449663
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002

STATE CLEANERS (Continued) **S105030856**

Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010822
Creation Date:	10/23/2001 0:00:00
Receipt Date:	20010827
Manifest ID:	21110317
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010529
Creation Date:	7/30/2001 0:00:00
Receipt Date:	20010606
Manifest ID:	20676846
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

STATE CLEANERS (Continued) **S105030856**

Additional Info:

Year:	1997
Gen EPA ID:	CAD981582471
Shipment Date:	19971028
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971028
Manifest ID:	96847090
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970912
Creation Date:	7/23/1998 0:00:00
Receipt Date:	Not reported
Manifest ID:	96855294
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970711
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970711
Manifest ID:	96856416
Trans EPA ID:	ILD984908202

STATE CLEANERS (Continued) **S105030856**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970513
Creation Date:	7/17/1997 0:00:00
Receipt Date:	19970513
Manifest ID:	96637475
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970321
Creation Date:	6/26/1997 0:00:00
Receipt Date:	19970321
Manifest ID:	96374100
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002

STATE CLEANERS (Continued) **S105030856**

Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970123
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19970123
Manifest ID:	96469623
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1993
Gen EPA ID:	CAD981582471
Shipment Date:	19931201
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931201
Manifest ID:	93030516
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported

STATE CLEANERS (Continued) **S105030856**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931101
Creation Date:	9/13/1995 0:00:00
Receipt Date:	19931101
Manifest ID:	93092786
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930922
Creation Date:	9/12/1995 0:00:00
Receipt Date:	Not reported
Manifest ID:	93082574
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	- Not reported
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930827
Creation Date:	9/12/1995 0:00:00
Receipt Date:	19930827
Manifest ID:	93037140

STATE CLEANERS (Continued) **S105030856**

Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19930803
Creation Date:	9/9/1995 0:00:00
Receipt Date:	Not reported
Manifest ID:	92555968
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	- Not reported
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19930709
Creation Date:	9/8/1995 0:00:00
Receipt Date:	Not reported
Manifest ID:	92568142
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l

STATE CLEANERS (Continued) **S105030856**

RCRA Code:	F002
Meth Code:	- Not reported
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930526
Creation Date:	9/9/1995 0:00:00
Receipt Date:	19930526
Manifest ID:	92574740
Trans EPA ID:	ILD051060408
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1994
Gen EPA ID:	CAD981582471
Shipment Date:	19941230
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941230
Manifest ID:	93507347
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P

STATE CLEANERS (Continued) **S105030856**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19941202
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941202
Manifest ID:	95079949
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19941102
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941102
Manifest ID:	93763699
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19941013
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941013

STATE CLEANERS (Continued) **S105030856**

Manifest ID:	95063401
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19940811
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940811
Manifest ID:	93684771
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19940722
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940722
Manifest ID:	93665747
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported

STATE CLEANERS (Continued) **S105030856**

Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940617
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940617
Manifest ID:	93668287
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940516
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940516
Manifest ID:	93505475
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

STATE CLEANERS (Continued) **S105030856**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940422
Creation Date:	3/25/1996 0:00:00
Receipt Date:	19940422
Manifest ID:	93421667
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940322
Creation Date:	3/25/1996 0:00:00
Receipt Date:	Not reported
Manifest ID:	93419343
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	- Not reported
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1996
Gen EPA ID:	CAD981582471
Shipment Date:	19961210
Creation Date:	5/30/1997 0:00:00

STATE CLEANERS (Continued) **S105030856**

Receipt Date:	19961210
Manifest ID:	96461574
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19961018
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19961018
Manifest ID:	96479006
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19960708
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19960708
Manifest ID:	96102364
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported

STATE CLEANERS (Continued) **S105030856**

TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960418
Creation Date:	10/29/1996 0:00:00
Receipt Date:	19960418
Manifest ID:	95948892
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2925
Waste Quantity:	585
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960123
Creation Date:	10/16/1996 0:00:00
Receipt Date:	19960123
Manifest ID:	95508359
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

STATE CLEANERS (Continued) **S105030856**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960119
Creation Date:	10/16/1996 0:00:00
Receipt Date:	19960119
Manifest ID:	95829770
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD053044053
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD053044053
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	STATE CLEANERS
Address:	4565 EGGERS DRIVE
City,State,Zip:	FREMONT, CA 94538
Site ID:	234820
CERS ID:	T10000004127
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	SELIM ZEYREK - ALAMEDA COUNTY WATER DISTRICT
Entity Title:	Not reported
Affiliation Address:	43885 SOUTH GRIMMER BLVD
Affiliation City:	FREMONT
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

HWTS:

Name:	STATE CLEANERS
Address:	4565 EGGERS DR
Address 2:	Not reported
City,State,Zip:	FREMONT, CA 945360000
EPA ID:	CAD981582471
Inactive Date:	06/30/2007
Create Date:	04/10/1987
Last Act Date:	04/23/2009

STATE CLEANERS (Continued) **S105030856**

Mailing Name:	Not reported
Mailing Address:	5255 MOWRY AVE SUITE P
Mailing Address 2:	Not reported
Mailing City,State,Zip:	FREMONT, CA 945380000
Owner Name:	THOMAS S. & SARAH J. KIM
Owner Address:	193 RABBIT CT
Owner Address 2:	Not reported
Owner City,State,Zip:	FREMONT, CA 945390000
Contact Name:	THOMAS S. KIM/OWNER
Contact Address:	5255 MOWRY AVE STE P
Contact Address 2:	Not reported
City,State,Zip:	FREMONT, CA 945390000

NAICS:

EPA ID:	CAD981582471
Create Date:	2002-03-14 16:36:26.000
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
Issued EPA ID Date:	1987-04-10 00:00:00
Inactive Date:	2007-06-30 09:15:34.99700
Facility Name:	STATE CLEANERS
Facility Address:	4565 EGGERS DR
Facility Address 2:	Not reported
Facility City:	FREMONT
Facility County:	Not reported
Facility State:	CA
Facility Zip:	945360000

M85 **EVERGREEN OIL INC.** **ENVIROSTOR** **S103960707**
SW **6880 SMITH AVE** **CHMIRS** **N/A**
1/2-1 **NEWARK, CA 94560** **EMI**
0.993 mi. **NPDES**
5243 ft. **Site 1 of 2 in cluster M** **WDS**
CIWQS
Relative: Lower **CERS**

Actual: 18 ft.

ENVIROSTOR:

Name:	SAFETY-KLEEN OF CALIFORNIA
Address:	6880 SMITH AVE
City,State,Zip:	NEWARK, CA 945600000
Facility ID:	80001757
Status:	Active
Status Date:	11/22/2004
Site Code:	200253
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	7
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	WM
Program Manager:	Chand Sultana
Supervisor:	Allan Plaza
Division Branch:	Cleanup Chatsworth
Assembly:	25
Senate:	10
Special Program:	Not reported
Restricted Use:	NO

EVERGREEN OIL INC. (Continued) **S103960707**

Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.52087
Longitude: -122.0202
APN: 92A-2300-10-3
Past Use: OIL FIELD, OIL/WATER SEPARATORS, RECYCLING - USED OIL , OIL FIELD, RECYCLING - USED OIL
Potential COC: Lead Mercury (elemental Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE Trichloroethylene (TCE Vinyl chloride TPH-diesel TPH-gas TPH-MOTOR OIL Chlorine
Confirmed COC: Chlorine TPH-MOTOR OIL 30019-NO 30022-NO 30027-NO 30028-NO 30013-NO 30014-NO
Potential Description: SOIL, SOIL
Alias Name: EVERGREEN OIL INC
Alias Type: Alternate Name
Alias Name: 92A-2300-10-3
Alias Type: APN
Alias Name: CAD980887418
Alias Type: EPA Identification Number
Alias Name: 110009544868
Alias Type: EPA (FRS #)
Alias Name: 200253
Alias Type: Project Code (Site Code)
Alias Name: 80001757
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/27/2017
Comments: On going GW monitoring. No letter issued.

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Workplan
Completed Date: 06/27/2019
Comments: Not reported

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/05/2018
Comments: Ongoing GW monitoring. No letter issued.

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/06/2018
Comments: Ongoing GW monitoring. No letter issued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/05/2019
Comments: Field work completed.

Completed Area Name: PROJECT WIDE

EVERGREEN OIL INC. (Continued) **S103960707**

Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/02/2019
Comments: Ongoing monitoring. No letter issued.

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/20/2020
Comments: Not reported

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/26/2019
Comments: Not reported

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/02/2020
Comments: Not reported

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/23/2021
Comments: Not reported

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/29/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2021
Comments: Not reported

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/29/2021
Comments: Not reported

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/10/2021
Comments: Not reported

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Workplan Addendum
Completed Date: 04/07/2021

EVERGREEN OIL INC. (Continued) **S103960707**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/28/2017
Comments: 2017-2018 Annual Oversight Cost Estimate

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/28/2018
Comments: Cost Estimated

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/22/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Agreement Terminated Notification
Completed Date: 09/23/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 09/21/2005
Comments: The revised workplan was submitted 08/08/2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 07/09/2010
Comments: DTSC recommended to submit a Ground Water Sampling & Analysis Plan and a Human & Eco Risk Assessment Plan.

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan Addendum
Completed Date: 05/05/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Workplan
Completed Date: 11/24/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 09/05/2013
Comments: Not reported

EVERGREEN OIL INC. (Continued) **S103960707**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 02/25/2014
Comments: DTSC approved the Supplemental Site Investigation Report.

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 11/15/2011
Comments: Not reported

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/13/2013
Comments: Not reported

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 02/13/2013
Comments: One letter for 3Q and 4Q issued.

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 08/13/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 08/13/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 04/10/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 09/10/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 03/26/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report

EVERGREEN OIL INC. (Continued) **S103960707**

Completed Date: 04/19/2016
Comments: No letter issued but and an e-mail. No further comments on RTCs.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/26/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/09/2016
Comments: No letter issued. Ongoing ground water monitoring.

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/11/2016
Comments: Review done. No letter issued for this ongoing ground water monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan Addendum
Completed Date: 05/16/2016
Comments: No further revision required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 11/21/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/21/2016
Comments: letter

Completed Area Name: OU-2 Ground Water
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/18/2017
Comments: Ongoing GW monitoring. No letter issued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/24/2014
Comments: 2014-2015 Estimated Oversight Costs

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/11/2015
Comments: Not reported

EVERGREEN OIL INC. (Continued) **S103960707**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Construction Complete
Completed Date: 09/26/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 09/26/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 09/26/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 11/22/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 01/19/2010
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Corrective Action Completion Determination
Future Due Date: 2024
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedy Selection and Statement of Basis
Future Due Date: 2022
Future Area Name: OU-2 Ground Water
Future Sub Area Name: Not reported
Future Document Type: Corrective Measures Study Report
Future Due Date: 2022
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedy Constructed: Operating Properly & Successfully
Future Due Date: 2023
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CHMIRS:
Name: Not reported
Address: 6880 SMITH AVE
City,State,Zip: NEWARK, CA
OES Incident Number: 17-0951

EVERGREEN OIL INC. (Continued) **S103960707**

OES notification:	02/01/2017
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Refinery
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	RAILROAD,VAPOR
Measure:	N/A
Other:	Not reported
Date/Time:	1530
Year:	2017
Agency:	Safety Clean
Incident Date:	01/31/2017
Admin Agency:	Alameda County Environmental Health
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Hydrogen Sulfide Gas
Quantity Released:	1000 ppm
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	1
Number of Fatalities:	Not reported

EVERGREEN OIL INC. (Continued) **S103960707**

#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	Yes
Fatals:	No
Comments:	Not reported
Description:	RP states: On 01/31/2017 by approximately 0100 hours, a railcar arrived to the Evergreen Refinery containing water contaminated with 1000ppm hydrogen sulfide gas with no placards or information. An unknown amount of the substance released when an employee opened the dome of the railcar to take a sample. One (1) Safety Kleen/Evergreen employee became ill upon inhaling the vapors but did not go to the hospital. The dome has been closed and the release is contained. Safety Kleen/Evergreen is determining what to do with the material. Rail Car ID TILX190445.

Name:	Not reported
Address:	6880 SMITH AVE
City,State,Zip:	NEWARK, CA 94560
OES Incident Number:	12-0750
OES notification:	02/07/2012
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes

EVERGREEN OIL INC. (Continued) **S103960707**

Waterway:	Flood Control Drainage Ditch
Spill Site:	Industrial Plant
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1314
Year:	2012
Agency:	Evergreen Oil Inc
Incident Date:	2/7/2012
Admin Agency:	Newark Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Flood Control Drainage Ditch
E Date:	Not reported
Substance:	Oily Water
Quantity Released:	5-Feb
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller states a bladder on an internal drain system failed resulting in a release to a flood control drainage ditch. Caller states a sheen is on the water and sheen size is 5 ft X 200 Ft

Name:	Not reported
Address:	6880 SMITH AVE
City,State,Zip:	NEWARK, CA 94560
OES Incident Number:	12-0094
OES notification:	01/05/2012
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported

EVERGREEN OIL INC. (Continued) **S103960707**

Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Industrial Plant
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported
Date/Time:	1200
Year:	2012
Agency:	Evergreen Oil Inc Corp
Incident Date:	1/5/2012
Admin Agency:	Newark Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Hydrogen Gas
Quantity Released:	Unknown
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	35 - 40
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller states substance released from a packing gland on a hydrogen pump due to it developing a leak. Caller states the line has been secured. Caller states the plant was evacuated as a precaution. Caller states 35 to 40 personnel were evacuated. Caller states the plant has been

EVERGREEN OIL INC. (Continued) **S103960707**

cleared for personnel to return to work.

Name:	Not reported
Address:	6880 SMITH AVE
City,State,Zip:	NEWARK, CA 94560
OES Incident Number:	12-1013
OES notification:	02/21/2012
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Refinery
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported
Date/Time:	200
Year:	2012
Agency:	Evergreen Oil
Incident Date:	2/19/2012
Admin Agency:	Newark Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Hydrogen Sulfide, Hydrogen and Hydrocarbon Gases
Quantity Released:	Unknown
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported

EVERGREEN OIL INC. (Continued) **S103960707**

Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller states substance released from the hydrocarbon unit due to a crack in a pipe.
Name:	Not reported
Address:	6880 SMITH AVE
City,State,Zip:	NEWARK, CA
OES Incident Number:	5-6259
OES notification:	10/28/2005
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported

EVERGREEN OIL INC. (Continued) **S103960707**

Date/Time:	Not reported
Year:	2005
Agency:	UPRR
Incident Date:	10/28/200512:00:00 AM
Admin Agency:	Newark Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Rail Road
E Date:	Not reported
Substance:	derailment
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	A rail car with oily water was derailed upright. It was caused by a derailment device that was in place to protect crews. The two front tracks were on the ground. No release.

Name:	Not reported
Address:	6880 SMITH AVE
City,State,Zip:	NEWARK, CA 94560
OES Incident Number:	1-3068
OES notification:	05/19/2011
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported

EVERGREEN OIL INC. (Continued) **S103960707**

Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Storm Drain / Mowry Slough
Spill Site:	Industrial Plant
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Lbs.
Other:	Not reported
Date/Time:	730
Year:	2011
Agency:	Evergreen Oil Inc
Incident Date:	5/18/2011
Admin Agency:	Newark Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Storm Drain / Mowry Slough
E Date:	Not reported
Substance:	Used Motor Oil
Quantity Released:	0.5
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller states release is most probably residual oil on the grounds that was washed into the storm drain due to rain. Caller states the storm drain releases to Mowry Slough where absorbent pads have been applied and clean-up has begun.
Name:	Not reported
Address:	6880 SMITH AVE
City,State,Zip:	NEWARK, CA 94560
OES Incident Number:	13-6024
OES notification:	09/24/2013
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**

EVERGREEN OIL INC. (Continued) **S103960707**

Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Refinery
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1700
Year:	2013
Agency:	Evergreen Oil Inc
Incident Date:	9/24/2013
Admin Agency:	Newark Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	V401 Fuel
Quantity Released:	75-100
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported

EVERGREEN OIL INC. (Continued) **S103960707**

Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	RP states that while loading materials into a tank, the tank overflowed due to unknown reasons resulting in the release of 75-100 gallons of V401 fuel into secondary containment. The release is contained and cleanup is underway. No waterways have been impacted. Caller states there is a lingering odor that has impacted the surrounding area.

EMI:

Name:	SAFETY-KLEEN OF CALIFORNIA, IN
Address:	6880 SMITH AVENUE
City,State,Zip:	NEWARK, CA 94560
Year:	2013
County Code:	1
Air Basin:	SF
Facility ID:	22308
Air District Name:	BA
SIC Code:	2992
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	15.478
Reactive Organic Gases Tons/Yr:	13.2983485
Carbon Monoxide Emissions Tons/Yr:	5.676
NOX - Oxides of Nitrogen Tons/Yr:	16.024
SOX - Oxides of Sulphur Tons/Yr:	0.096
Particulate Matter Tons/Yr:	0.443
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.443

Name:	SAFETY-KLEEN OF CALIFORNIA, INC
Address:	6880 SMITH AVENUE
City,State,Zip:	NEWARK, CA 94560
Year:	2014
County Code:	1
Air Basin:	SF
Facility ID:	22308
Air District Name:	BA
SIC Code:	2992
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	16.018823823
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	7.380963491
NOX - Oxides of Nitrogen Tons/Yr:	21.354658823
SOX - Oxides of Sulphur Tons/Yr:	0.110103875
Particulate Matter Tons/Yr:	0.494575584
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.494531064

Name:	SAFETY-KLEEN OF CALIFORNIA, INC
Address:	6880 SMITH AVENUE
City,State,Zip:	NEWARK, CA 94560
Year:	2015

EVERGREEN OIL INC. (Continued) **S103960707**

County Code:	1
Air Basin:	SF
Facility ID:	22308
Air District Name:	BA
SIC Code:	2992
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.541028252
Reactive Organic Gases Tons/Yr:	3.057320306
Carbon Monoxide Emissions Tons/Yr:	5.604261968
NOX - Oxides of Nitrogen Tons/Yr:	19.18614592
SOX - Oxides of Sulphur Tons/Yr:	0.09548644
Particulate Matter Tons/Yr:	0.50624851
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.506219571

Name:	SAFETY-KLEEN OF CALIFORNIA, INC
Address:	6880 SMITH AVENUE
City,State,Zip:	NEWARK, CA 94560
Year:	2016
County Code:	1
Air Basin:	SF
Facility ID:	22308
Air District Name:	BA
SIC Code:	2992
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.823848725
Reactive Organic Gases Tons/Yr:	2.48463557
Carbon Monoxide Emissions Tons/Yr:	6.585512176
NOX - Oxides of Nitrogen Tons/Yr:	22.485441557
SOX - Oxides of Sulphur Tons/Yr:	0.101816105
Particulate Matter Tons/Yr:	0.543437031
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.543422562

Name:	SAFETY-KLEEN OF CALIFORNIA, INC
Address:	6880 SMITH AVENUE
City,State,Zip:	NEWARK, CA 94560
Year:	2017
County Code:	1
Air Basin:	SF
Facility ID:	22308
Air District Name:	BA
SIC Code:	2992
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.418693599
Reactive Organic Gases Tons/Yr:	1.9835502933
Carbon Monoxide Emissions Tons/Yr:	1.416968274
NOX - Oxides of Nitrogen Tons/Yr:	1.91490274
SOX - Oxides of Sulphur Tons/Yr:	0.022966779
Particulate Matter Tons/Yr:	0.121537734
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.121523265

Name:	SAFETY-KLEEN OF CALIFORNIA, INC

EVERGREEN OIL INC. (Continued) **S103960707**

Address:	6880 SMITH AVENUE
City,State,Zip:	NEWARK, CA 94560
Year:	2018
County Code:	1
Air Basin:	SF
Facility ID:	22308
Air District Name:	BA
SIC Code:	2992
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.487131245
Reactive Organic Gases Tons/Yr:	0.44393205826
Carbon Monoxide Emissions Tons/Yr:	0.003250625
NOX - Oxides of Nitrogen Tons/Yr:	0.007152821
SOX - Oxides of Sulphur Tons/Yr:	1.4147e-005
Particulate Matter Tons/Yr:	0.000361971
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.000347492

Name:	SAFETY-KLEEN OF CALIFORNIA, INC
Address:	6880 SMITH AVENUE
City,State,Zip:	NEWARK, CA 94560
Year:	2019
County Code:	1
Air Basin:	SF
Facility ID:	22308
Air District Name:	BA
SIC Code:	2992
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.651721328
Reactive Organic Gases Tons/Yr:	0.59540438658
Carbon Monoxide Emissions Tons/Yr:	0.032091064
NOX - Oxides of Nitrogen Tons/Yr:	0.131814862
SOX - Oxides of Sulphur Tons/Yr:	0.000556782
Particulate Matter Tons/Yr:	0.003248854
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.003233261

NPDES:

Name:	SAFETY KLEEN OF CALIFORNIA INC
Address:	6880 SMITH AVE
City,State,Zip:	NEWARK, CA 94560
Facility Status:	Active
NPDES Number:	CAS000001
Region:	2
Agency Number:	0
Regulatory Measure ID:	180696
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	2 01I002586
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/01/1992
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported

EVERGREEN OIL INC. (Continued) **S103960707**

Discharge Address:	6880 Smith Ave
Discharge Name:	Safety Kleen of California Inc
Discharge City:	Newark
Discharge State:	California
Discharge Zip:	94560
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	180696
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01I002586
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/01/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Safety Kleen of California Inc
Discharge Address:	6880 Smith Ave
Discharge City:	Newark
Discharge State:	California
Discharge Zip:	94560
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported

EVERGREEN OIL INC. (Continued) **S103960707**

Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	180696
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01I002586
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/01/1992
Status:	Active
Status Date:	04/01/1992
Place Size:	7
Place Size Unit:	Acres

EVERGREEN OIL INC. (Continued) **S103960707**

Contact:	Todd McHugh
Contact Title:	Senior Compliance Manager
Contact Phone:	510-795-4400
Contact Phone Ext:	155
Contact Email:	mchugh.todd@cleanharbors.com
Operator Name:	Safety Kleen of California Inc
Operator Address:	6880 Smith Ave
Operator City:	Newark
Operator State:	California
Operator Zip:	94560
Operator Contact:	Todd McHugh
Operator Contact Title:	Not reported
Operator Contact Phone:	510-795-4400
Operator Contact Phone Ext:	155
Operator Contact Email:	mchugh.todd@cleanharbors.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	510-795-4401
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Francisco Bay
Certifier:	Todd McHugh
Certifier Title:	Senior Compliance Manager
Certification Date:	16-JUN-15
Primary Sic:	2992-Lubricating Oils and Greases
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	SAFETY KLEEN OF CALIFORNIA INC
Address:	6880 SMITH AVE
City,State,Zip:	NEWARK, CA 94560
Facility Status:	Not reported
NPDES Number:	Not reported

EVERGREEN OIL INC. (Continued) **S103960707**

Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 01I002586
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	04/01/1992
Operator Name:	Safety Kleen of California Inc
Operator Address:	6880 Smith Ave
Operator City:	Newark
Operator State:	California
Operator Zip:	94560

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	180696
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01I002586
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/01/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Safety Kleen of California Inc
Discharge Address:	6880 Smith Ave
Discharge City:	Newark
Discharge State:	California
Discharge Zip:	94560
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported

EVERGREEN OIL INC. (Continued) **S103960707**

Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	180696
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01I002586
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported

EVERGREEN OIL INC. (Continued) **S103960707**

Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/01/1992
Status:	Active
Status Date:	04/01/1992
Place Size:	7
Place Size Unit:	Acres
Contact:	Todd McHugh
Contact Title:	Senior Compliance Manager
Contact Phone:	510-795-4400
Contact Phone Ext:	155
Contact Email:	mchugh.todd@cleanharbors.com
Operator Name:	Safety Kleen of California Inc
Operator Address:	6880 Smith Ave
Operator City:	Newark
Operator State:	California
Operator Zip:	94560
Operator Contact:	Todd McHugh
Operator Contact Title:	Not reported
Operator Contact Phone:	510-795-4400
Operator Contact Phone Ext:	155
Operator Contact Email:	mchugh.todd@cleanharbors.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	510-795-4401
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Francisco Bay
Certifier:	Todd McHugh

EVERGREEN OIL INC. (Continued) **S103960707**

Certifier Title: Senior Compliance Manager
Certification Date: 16-JUN-15
Primary Sic: 2992-Lubricating Oils and Greases
Secondary Sic: Not reported
Tertiary Sic: Not reported

WDS:
Name: EVERGREEN OIL INC.
Address: 6880 SMITH AVE
City: NEWARK
Facility ID: San Francisco Bay 01I002586
Facility Type: Not reported
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2
Facility Telephone: Not reported
Facility Contact: Not reported
Agency Name: EVERGREEN OIL INC.
Agency Address: Not reported
Agency City,St,Zip: 0
Agency Contact: Not reported
Agency Telephone: Not reported
Agency Type: Not reported
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:
Name: SAFETY KLEEN OF CALIFORNIA INC
Address: 6880 SMITH AVE
City,State,Zip: NEWARK, CA 94560

EVERGREEN OIL INC. (Continued) **S103960707**

Agency:	Safety Kleen of California Inc
Agency Address:	6880 Smith Ave, Newark, CA 94560
Place/Project Type:	Industrial - Lubricating Oils and Greases
SIC/NAICS:	2992
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 01I002586
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	04/01/1992
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.52157
Longitude:	-122.02128

CERS:

Name:	EVERGREEN OIL INC
Address:	6880 SMITH AVE UNIT A
City,State,Zip:	NEWARK, CA 94560-4224
Site ID:	466997
CERS ID:	110009544868
CERS Description:	US EPA Air Emission Inventory System (EIS)

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	HO M KIM
Entity Title:	SENIOOR COMPLIANCE MANAGR
Affiliation Address:	6880 SMITH AVE
Affiliation City:	NEWARK
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Public Contact
Entity Name:	TODD MCHUGH
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Environmental Contact
Entity Name:	TODD D MCHUGH
Entity Title:	SENIOR COMPLIANCE MANAGER
Affiliation Address:	6880 SMITH AVE

EVERGREEN OIL INC. (Continued) **S103960707**

Affiliation City:	NEWARK
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	TODD MCHUGH
Entity Title:	SENIOR COMPLIANCE MGR
Affiliation Address:	6880 SMITH AVE
Affiliation City:	NEWARK
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	STEPHEN A DOUGLAS
Entity Title:	CORPORATE COMPLIANCE MANAGER
Affiliation Address:	POBOX 248
Affiliation City:	NEWARK
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

M86 **SAFETY-KLEEN OF CALIFORNIA INC** **SEMS-ARCHIVE** **1000357880**
SW **6880 SMITH AVE** **CORRACTS** **CAD980887418**
1/2-1 **NEWARK, CA 94560** **RCRA-TSDF**
0.993 mi. **RCRA-LQG**
5243 ft. **Site 2 of 2 in cluster M** **US FIN ASSUR**
2020 COR ACTION
Relative: Lower **TSCA**
ICIS
Actual: 18 ft. **FINDS**
ECHO
ICE
HWP

SEMS Archive:

Site ID:	0904289
EPA ID:	CAD980887418
Name:	EVERGREEN OIL INC.
Address:	6880 SMITH ST.
Address 2:	Not reported
City,State,Zip:	NEWARK, CA 94560
Cong District:	10
FIPS Code:	06001
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	09
Site ID:	0904289
EPA ID:	CAD980887418
Site Name:	EVERGREEN OIL INC.

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1996-01-23 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0904289
EPA ID: CAD980887418
Site Name: EVERGREEN OIL INC.
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1991-10-03 04:00:00
Finish Date: 1991-10-03 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0904289
EPA ID: CAD980887418
Site Name: EVERGREEN OIL INC.
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1992-03-31 05:00:00
Qual: D
Current Action Lead: EPA Perf

CORRACTS:
Name: SAFETY-KLEEN OF CALIFORNIA INC
Address: 6880 SMITH AVE
Address 2: Not reported
EPA ID: CAD980887418
Area Name: ENTIRE FACILITY
Corrective Action: INVESTIGATION WORKPLAN APPROVED
Actual Date: 20050921
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN OF CALIFORNIA INC
Address: 6880 SMITH AVE

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Address 2: Not reported
EPA ID: CAD980887418
Area Name: ENTIRE FACILITY
Corrective Action: INVESTIGATION REPORT RECEIVED
Actual Date: 20080730
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN OF CALIFORNIA INC
Address: 6880 SMITH AVE
Address 2: Not reported
EPA ID: CAD980887418
Area Name: ENTIRE FACILITY
Corrective Action: INVESTIGATION COMPLETE
Actual Date: 20100709
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN OF CALIFORNIA INC
Address: 6880 SMITH AVE
Address 2: Not reported
EPA ID: CAD980887418
Area Name: ENTIRE FACILITY
Corrective Action: INVESTIGATION WORKPLAN RECEIVED
Actual Date: 20130131
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN OF CALIFORNIA INC
Address: 6880 SMITH AVE
Address 2: Not reported
EPA ID: CAD980887418
Area Name: ENTIRE FACILITY
Corrective Action: INVESTIGATION WORKPLAN MODIFICATION REQ BY AGENCY
Actual Date: 20130228
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN OF CALIFORNIA INC
Address: 6880 SMITH AVE
Address 2: Not reported
EPA ID: CAD980887418
Area Name: ENTIRE FACILITY
Corrective Action: INVESTIGATION WORKPLAN NOTICE OF DEFICIENCY ISSUED
Actual Date: 20130228
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Name: SAFETY-KLEEN OF CALIFORNIA INC
Address: 6880 SMITH AVE
Address 2: Not reported
EPA ID: CAD980887418
Area Name: ENTIRE FACILITY
Corrective Action: INVESTIGATION WORKPLAN APPROVED
Actual Date: 20130905
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN OF CALIFORNIA INC
Address: 6880 SMITH AVE
Address 2: Not reported
EPA ID: CAD980887418
Area Name: ENTIRE FACILITY
Corrective Action: INVESTIGATION REPORT RECEIVED
Actual Date: 20130729
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN OF CALIFORNIA INC
Address: 6880 SMITH AVE
Address 2: Not reported
EPA ID: CAD980887418
Area Name: ENTIRE FACILITY
Corrective Action: INVESTIGATION COMPLETE
Actual Date: 20140225
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN OF CALIFORNIA INC
Address: 6880 SMITH AVE
Address 2: Not reported
EPA ID: CAD980887418
Area Name: ENTIRE FACILITY
Corrective Action: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED
Actual Date: 20110926
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN OF CALIFORNIA INC
Address: 6880 SMITH AVE
Address 2: Not reported
EPA ID: CAD980887418
Area Name: ENTIRE FACILITY
Corrective Action: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 20110926
Air Release Indicator: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Click this hyperlink while viewing on your computer to access
17 additional CORRACTS: record(s) in the EDR Site Report.

RCRA-LQG:

Date Form Received by Agency:	20210212
Handler Name:	SAFETY-KLEEN OF CALIFORNIA INC
Handler Address:	6880 SMITH AVE
Handler City,State,Zip:	NEWARK, CA 94560-0000
EPA ID:	CAD980887418
Contact Name:	NEIL BARTLEY BARTLEY
Contact Address:	SMITH AVE
Contact City,State,Zip:	NEWARK, CA 94560-0000
Contact Telephone:	510-795-4400
Contact Fax:	Not reported
Contact Email:	NEIL.BARTLEY@SAFETY-KLEEN.COM
Contact Title:	GENERAL MANAGER
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2020
Accessibility:	Not reported
Active Site Indicator:	Handler Activities, Permitting Activities, Corrective Action Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	SMITH AVE
Mailing City,State,Zip:	NEWARK, CA 94560-0000
Owner Name:	CLEAN HARBORS INC
Owner Type:	Private
Operator Name:	SAFETY KLEEN OF CALIFORNIA
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	Yes
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	Yes
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Storage, Treatment
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	Yes

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Treatment Storage and Disposal Type:	Storage, Treatment
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Accomplished
Permit Renewals Workload Universe:	Storage, Treatment
Permit Workload Universe:	Storage, Treatment
Permit Progress Universe:	Storage, Treatment
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Treatment
202 GPRA Corrective Action Baseline:	Yes
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	Yes
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	Yes
Operating TSDF Universe:	Storage, Treatment
Full Enforcement Universe:	Storage, Treatment
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	Yes
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	Yes
Financial Assurance Required:	Closure, Sudden Third-Party Liability
Handler Date of Last Change:	20210426
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2007

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D003
Waste Description: REACTIVE WASTE

Waste Code: D004
Waste Description: ARSENIC

Waste Code: D005
Waste Description: BARIUM

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

Waste Code: D010
Waste Description: SELENIUM

Waste Code: D011
Waste Description: SILVER

Waste Code: D018
Waste Description: BENZENE

Waste Code: D019
Waste Description: CARBON TETRACHLORIDE

Waste Code: D020
Waste Description: CHLORDANE

Waste Code: D021
Waste Description: CHLOROBENZENE

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Waste Code: D022
Waste Description: CHLOROFORM

Waste Code: D027
Waste Description: 1,4-DICHLOROBENZENE

Waste Code: D028
Waste Description: 1,2-DICHLOROETHANE

Waste Code: D029
Waste Description: 1,1-DICHLOROETHYLENE

Waste Code: D030
Waste Description: 2,4-DINITROTOLUENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D036
Waste Description: NITROBENZENE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Waste Code: F001
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F004
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F006
Waste Description: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Waste Code: F037
Waste Description: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE - ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORM WATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGES GENERATED IN STORM WATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS), AND K051 WASTES ARE EXEMPTED FROM THIS LISTING.

Waste Code: F038
Waste Description: PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE - ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

UNITS), AND F037, K048, AND K051 WASTES ARE EXEMPTED FROM THIS LISTING.

Waste Code: K048
Waste Description: DISSOLVED AIR FLOTATION (DAF) FLOAT FROM THE PETROLEUM REFINING INDUSTRY.

Waste Code: K049
Waste Description: SLOP OIL EMULSION SOLIDS FROM THE PETROLEUM REFINING INDUSTRY.

Waste Code: K050
Waste Description: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY.

Waste Code: K051
Waste Description: API SEPARATOR SLUDGE FROM THE PETROLEUM REFINING INDUSTRY.

Waste Code: K052
Waste Description: TANK BOTTOMS (LEADED) FROM THE PETROLEUM REFINING INDUSTRY.

Waste Code: K157
Waste Description: WASTEWATERS (INCLUDING SCRUBBER WATERS, CONDENSER WATERS, WASHWATERS, AND SEPARATION WATERS) FROM THE PRODUCTION OF CARBAMATES AND CARBAMOYL OXIMES.

Waste Code: P011
Waste Description: ARSENIC OXIDE AS2O5 (OR) ARSENIC PENTOXIDE

Waste Code: P012
Waste Description: ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE

Waste Code: P022
Waste Description: CARBON DISULFIDE

Waste Code: P029
Waste Description: COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)

Waste Code: P068
Waste Description: HYDRAZINE, METHYL- (OR) METHYL HYDRAZINE

Waste Code: P098
Waste Description: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

Waste Code: P105
Waste Description: SODIUM AZIDE

Waste Code: P106
Waste Description: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

Waste Code: P120
Waste Description: VANADIUM OXIDE V2O5 (OR) VANADIUM PENTOXIDE

Waste Code: U001
Waste Description: ACETALDEHYDE (I) (OR) ETHANAL (I)

Waste Code: U002
Waste Description: 2-PROPANONE (I) (OR) ACETONE (I)

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Waste Code: U003
Waste Description: ACETONITRILE (I,T)

Waste Code: U007
Waste Description: 2-PROPENAMIDE (OR) ACRYLAMIDE

Waste Code: U012
Waste Description: ANILINE (I,T) (OR) BENZENAMINE (I,T)

Waste Code: U019
Waste Description: BENZENE (I,T)

Waste Code: U021
Waste Description: [1,1'-BIPHENYL]-4,4'-DIAMINE (OR) BENZIDINE

Waste Code: U031
Waste Description: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)

Waste Code: U034
Waste Description: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

Waste Code: U041
Waste Description: EPICHLOROHYDRIN (OR) OXIRANE, (CHLOROMETHYL)-

Waste Code: U043
Waste Description: ETHENE, CHLORO- (OR) VINYL CHLORIDE

Waste Code: U044
Waste Description: CHLOROFORM (OR) METHANE, TRICHLORO-

Waste Code: U052
Waste Description: CRESOL (CRESYLIC ACID) (OR) PHENOL, METHYL-

Waste Code: U056
Waste Description: BENZENE, HEXAHYDRO- (I) (OR) CYCLOHEXANE (I)

Waste Code: U057
Waste Description: CYCLOHEXANONE (I)

Waste Code: U070
Waste Description: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

Waste Code: U071
Waste Description: BENZENE, 1,3-DICHLORO- (OR) M-DICHLOROBENZENE

Waste Code: U072
Waste Description: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

Waste Code: U080
Waste Description: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE

Waste Code: U105
Waste Description: 2,4-DINITROTOLUENE (OR) BENZENE, 1-METHYL-2,4-DINITRO-

Waste Code: U106
Waste Description: 2,6-DINITROTOLUENE (OR) BENZENE, 2-METHYL-1,3-DINITRO-

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Waste Code:	U112
Waste Description:	ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)
Waste Code:	U117
Waste Description:	ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)
Waste Code:	U122
Waste Description:	FORMALDEHYDE
Waste Code:	U134
Waste Description:	HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)
Waste Code:	U151
Waste Description:	MERCURY
Waste Code:	U154
Waste Description:	METHANOL (I) (OR) METHYL ALCOHOL (I)
Waste Code:	U159
Waste Description:	2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)
Waste Code:	U165
Waste Description:	NAPHTHALENE
Waste Code:	U183
Waste Description:	BENZENE, PENTACHLORO- (OR) PENTACHLOROBENZENE
Waste Code:	U188
Waste Description:	PHENOL
Waste Code:	U196
Waste Description:	PYRIDINE
Waste Code:	U201
Waste Description:	1,3-BENZENEDIOL (OR) RESORCINOL
Waste Code:	U211
Waste Description:	CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-
Waste Code:	U218
Waste Description:	ETHANETHIOAMIDE (OR) THIOACETAMIDE
Waste Code:	U219
Waste Description:	THIOUREA
Waste Code:	U220
Waste Description:	BENZENE, METHYL- (OR) TOLUENE
Waste Code:	U228
Waste Description:	ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE
Waste Code:	U239
Waste Description:	BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)
Waste Code:	U404
Waste Description:	U404

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	19851010
Date Ended Current:	Not reported
Owner/Operator Address:	P.O. BOX 248
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EVERGREEN OIL, OIL.
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE.
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN OF CALIFORNIA
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CLEAN HARBORS, INC
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CLEAN HARBORS INC
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-608-0155

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	ZEBRE.JESSICA@CLEANHARBORS.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	19851010
Date Ended Current:	Not reported
Owner/Operator Address:	P.O. BOX 248
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE.
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	EVERGREEN OIL, OIL.
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE.
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	19860824
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	EVERGREEN OIL, INC
Legal Status:	Private
Date Became Current:	19860824
Date Ended Current:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Owner/Operator Address:	6880 SMITH AVE
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	135
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY KLEEN OF CALIFORNIA
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-608-0155
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	ZEBRE.JESSICA@CLEANHARBORS.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name:	CLEAN HARBORS INC
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	42 LONGWATER
Owner/Operator City,State,Zip:	NORWELL, MA 02061
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	ZEBRE.JESSICA@CLEANHARBORS.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE.
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	19860824
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	EVERGREEN OIL, INC.

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Legal Status:	Private
Date Became Current:	19860824
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	19860824
Date Ended Current:	Not reported
Owner/Operator Address:	P.O. BOX 248
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	CLEAN HARBORS INC
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	42 LONGWATER
Owner/Operator City,State,Zip:	NORWELL, MA 02061
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	ZEBRE.JESSICA@CLEANHARBORS.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY KLEEN OF CALIFORNIA
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE
Owner/Operator City,State,Zip:	NEWARK, CA 94560-0000
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	ZEBRE.JESSICA@CLEANHARBORS.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN OF CALIFORNIA INC
Legal Status:	Private
Date Became Current:	19860301
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	19851010
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	EVERGREEN OIL, INC
Legal Status:	Private
Date Became Current:	19851010
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	135
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY KLEEN OF CALIFORNIA
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE
Owner/Operator City,State,Zip:	NEWARK, CA 94560-0000
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	ZEBRE.JESSICA@CLEANHARBORS.COM

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	19851010
Date Ended Current:	Not reported
Owner/Operator Address:	P.O. BOX 248
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EVERGREEN OIL INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4401
Owner/Operator Telephone Ext:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: SAFETY-KLEEN OF CALIFORNIA INC
Legal Status: Private
Date Became Current: 20130901
Date Ended Current: Not reported
Owner/Operator Address: 2660 N CENTRAL EXPWY
Owner/Operator City,State,Zip: RICHARD, TX 75080
Owner/Operator Telephone: 972-265-2000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20100802
Handler Name: EVERGREEN OIL, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20130314
Handler Name: EVERGREEN OIL, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20140301
Handler Name: EVERGREEN OIL, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20160301
Handler Name: SAFETY-KLEEN OF CALIFORNIA

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20180213
Handler Name:	SAFETY-KLEEN OF CALIFORNIA INC
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	20200218
Handler Name:	SAFETY-KLEEN OF CALIFORNIA INC
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	20210212
Handler Name:	SAFETY-KLEEN OF CALIFORNIA INC
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	19931115
Handler Name:	EVERGREEN OIL INC
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19961105
Handler Name: EVERGREEN OIL INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150720
Handler Name: SAFETY-KLEEN OF CALIFORNIA INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920227
Handler Name: EVERGREEN OIL INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940317
Handler Name: EVERGREEN OIL, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Receive Date: 19960327
Handler Name: EVERGREEN OIL, INCORPORATED
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20001012
Handler Name: EVERGREEN OIL, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020227
Handler Name: EVERGREEN OIL INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040325
Handler Name: EVERGREEN OIL, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060228
Handler Name: EVERGREEN OIL, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20080328
Handler Name:	EVERGREEN OIL, INC.
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	32411
NAICS Description:	PETROLEUM REFINERIES
NAICS Code:	324191
NAICS Description:	PETROLEUM LUBRICATING OIL AND GREASE MANUFACTURING
NAICS Code:	424710
NAICS Description:	PETROLEUM BULK STATIONS AND TERMINALS
NAICS Code:	562112
NAICS Description:	HAZARDOUS WASTE COLLECTION
NAICS Code:	562211
NAICS Description:	HAZARDOUS WASTE TREATMENT AND DISPOSAL
NAICS Code:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR
NAICS Code:	92411
NAICS Description:	ADMINISTRATION OF AIR AND WATER RESOURCE AND SOLID WASTE MANAGEMENT PROGRAMS

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Tank System Standards
Date Violation was Determined:	20010213
Actual Return to Compliance Date:	20010226
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	501
Date of Enforcement Action:	20010502
Enforcement Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180712
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	549
Date of Enforcement Action:	20180724
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19920403
Actual Return to Compliance Date: 19930121
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 004
Date of Enforcement Action: 19931026
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19970616
Actual Return to Compliance Date: 19980113
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 011
Date of Enforcement Action: 19971215
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 20060627
Actual Return to Compliance Date: 20060807
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20060719
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20090623
Actual Return to Compliance Date: 20090826
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 300
Date of Enforcement Action: 20100211
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 23000
Paid Amount: Not reported
Final Count: 1
Final Amount: 23000

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20151004
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 313
Date of Enforcement Action: 20150730
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190315
Actual Return to Compliance Date: 20190315
Return to Compliance Qualifier: Not Resolved
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 322
Date of Enforcement Action: 20190315
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 19991206
Actual Return to Compliance Date: 19991213
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 503
Date of Enforcement Action: 20000327
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20080625
Actual Return to Compliance Date: 20090612
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 515
Date of Enforcement Action: 20081009
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170907
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 20160412
Actual Return to Compliance Date: 20160503
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 315
Date of Enforcement Action: 20160421
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20180323
Return to Compliance Qualifier: Not Resolved
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190315
Actual Return to Compliance Date: 20190315
Return to Compliance Qualifier: Not Resolved
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Transporters - Manifest System and Recordkeeping
Date Violation was Determined: 19990517
Actual Return to Compliance Date: 19990517
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 19990714
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	19930916
Actual Return to Compliance Date:	20001218
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	528
Date of Enforcement Action:	19941212
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Permits - Changes
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180718
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	549
Date of Enforcement Action:	20180724
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19950831
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 010
Date of Enforcement Action: 19970612
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150904
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 313
Date of Enforcement Action: 20150730
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Permits - Application
Date Violation was Determined: 20050621
Actual Return to Compliance Date: 20060605
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 201
Date of Enforcement Action: 20060605
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	9000
Paid Amount:	Not reported
Final Count:	1
Final Amount:	9000
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Manifest/Records/Reporting
Date Violation was Determined:	20160412
Actual Return to Compliance Date:	20160503
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	315
Date of Enforcement Action:	20160421
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180712
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	306
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190315
Actual Return to Compliance Date: 20190315
Return to Compliance Qualifier: Not Resolved
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150629
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 313
Date of Enforcement Action: 20150730
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180816
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 318
Date of Enforcement Action: 20180626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20090623
Actual Return to Compliance Date: 20090826
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20090730
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150702
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 313
Date of Enforcement Action: 20150730
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190315
Actual Return to Compliance Date: 20190315
Return to Compliance Qualifier: Not Resolved
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Air Emission Standards - Process Vents
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150904
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	543
Date of Enforcement Action:	20150826
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19970113
Actual Return to Compliance Date:	19970113
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	011
Date of Enforcement Action:	19971215
Enforcement Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19980629
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19981015
Enforcement Identifier: 012
Date of Enforcement Action: 19981015
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170330
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 317
Date of Enforcement Action: 20170330
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	20060627
Actual Return to Compliance Date:	20060807
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	510
Date of Enforcement Action:	20061108
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20050621
Actual Return to Compliance Date: 20060605
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 203
Date of Enforcement Action: 20050812
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: 20190531
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19971215
Actual Return to Compliance Date: 19980113
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 011
Date of Enforcement Action: 19971215
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19920403
Actual Return to Compliance Date: 19930121
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19920709
Enforcement Identifier: 001
Date of Enforcement Action: 19920409
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19950831
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 009
Date of Enforcement Action: 19951101
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	50000
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190315
Actual Return to Compliance Date:	20190315
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	553
Date of Enforcement Action:	20190315
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19930225
Actual Return to Compliance Date: 19930916
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19930710
Enforcement Identifier: 003
Date of Enforcement Action: 19930305
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20180406
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 547
Date of Enforcement Action: 20170511
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170330
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 547
Date of Enforcement Action: 20170511
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20100222
Actual Return to Compliance Date: 20100722
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 300
Date of Enforcement Action: 20100311
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 20010213
Actual Return to Compliance Date: 20010226
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 235
Date of Enforcement Action: 20011213
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 29000
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 20070613
Actual Return to Compliance Date: 20071114
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20070628
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180712
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	308
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INJUNCTIVE RELIEF
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150629
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 313
Date of Enforcement Action: 20150730
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180712
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 318
Date of Enforcement Action: 20180626
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20110529
Actual Return to Compliance Date:	20110828
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	529
Date of Enforcement Action:	20110803
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19951031
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19951117
Enforcement Identifier: 008
Date of Enforcement Action: 19951031
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170907
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 547
Date of Enforcement Action: 20170511
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20140508
Actual Return to Compliance Date: 20140519
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 310
Date of Enforcement Action: 20140519
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Records/Reporting
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150811
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 313
Date of Enforcement Action: 20150730
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: 20190531
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 320
Date of Enforcement Action: 20190517
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20151004
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	543
Date of Enforcement Action:	20150826
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: 20190531
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 551
Date of Enforcement Action: 20190614
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20010213
Actual Return to Compliance Date: 20010226
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 501
Date of Enforcement Action: 20010502
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19951031
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 010
Date of Enforcement Action: 19970612
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	20010213
Actual Return to Compliance Date:	20010226
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	235
Date of Enforcement Action:	20011213
Enforcement Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 29000
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20090623
Actual Return to Compliance Date: 20090826
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20090730
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19930916
Actual Return to Compliance Date: 20001218
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 201
Date of Enforcement Action: 19941220
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Chemical, Physical, AND Treatment
Date Violation was Determined: 19941212
Actual Return to Compliance Date: 19950829
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19941220
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Thermal Treatment
Date Violation was Determined: 19980629
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19981015
Enforcement Identifier: 012
Date of Enforcement Action: 19981015
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20010626
Actual Return to Compliance Date: 20010726
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 201
Date of Enforcement Action: 20010627
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190315
Actual Return to Compliance Date: 20190315
Return to Compliance Qualifier: Not Resolved
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20090623
Actual Return to Compliance Date: 20090826
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 518
Date of Enforcement Action: 20090827
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20160412
Actual Return to Compliance Date:	20160421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	545
Date of Enforcement Action:	20160614
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190315
Actual Return to Compliance Date:	20190315
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	322
Date of Enforcement Action:	20190315
Enforcement Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 20140508
Actual Return to Compliance Date: 20140519
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 310
Date of Enforcement Action: 20140519
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20180323
Return to Compliance Qualifier: Not Resolved
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 547
Date of Enforcement Action: 20170511
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170907
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 307
Date of Enforcement Action: 20190128
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170330
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19920403
Actual Return to Compliance Date:	19930121
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	19931026
Enforcement Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180712
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	318
Date of Enforcement Action:	20180626
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Manifest/Records/Reporting
Date Violation was Determined:	20070613
Actual Return to Compliance Date:	20071114
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	512
Date of Enforcement Action:	20071018
Enforcement Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19931222
Actual Return to Compliance Date:	19940204
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19940129
Enforcement Identifier:	005
Date of Enforcement Action:	19941228
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20010626
Actual Return to Compliance Date:	20010726
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	514
Date of Enforcement Action:	20010814
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Tank System Standards
Date Violation was Determined:	20010213
Actual Return to Compliance Date:	20010226
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	240
Date of Enforcement Action:	20020307
Enforcement Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 10000
Paid Amount: Not reported
Final Count: 1
Final Amount: 15000

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20050621
Actual Return to Compliance Date: 20060605
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 509
Date of Enforcement Action: 20050929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 20070613
Actual Return to Compliance Date: 20071114
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20080624
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 8000
Paid Amount: Not reported
Final Count: 1
Final Amount: 8000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19950831
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 009
Date of Enforcement Action: 19951101
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 50000
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180816
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170330
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 317
Date of Enforcement Action: 20170330
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Transporters - Manifest System and Recordkeeping
Date Violation was Determined: 19990517
Actual Return to Compliance Date: 19990517
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 500
Date of Enforcement Action: 20000327
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: 20190614
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 551
Date of Enforcement Action: 20190614
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19941212
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19941220
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Permits - Application
Date Violation was Determined: 20050621
Actual Return to Compliance Date: 20060605
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 203
Date of Enforcement Action: 20050812
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: 20190531
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 320
Date of Enforcement Action: 20190517
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Permits - Application
Date Violation was Determined: 20050621
Actual Return to Compliance Date: 20060605
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 509
Date of Enforcement Action: 20050929
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Permits - Changes
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180718
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190315
Actual Return to Compliance Date: 20190315
Return to Compliance Qualifier: Not Resolved
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150629
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	543
Date of Enforcement Action:	20150826
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170330
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180816
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 318
Date of Enforcement Action: 20180626
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20050621
Actual Return to Compliance Date: 20060605
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 201
Date of Enforcement Action: 20060605
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	9000
Paid Amount:	Not reported
Final Count:	1
Final Amount:	9000
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Container Use and Management
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20170330
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	317
Date of Enforcement Action:	20170330
Enforcement Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19941212
Actual Return to Compliance Date:	20001220
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19941220
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - Prohibitions
Date Violation was Determined: 20160412
Actual Return to Compliance Date: 20160421
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 315
Date of Enforcement Action: 20160421
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Permits - Changes
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180718
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	318
Date of Enforcement Action:	20180626
Enforcement Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20080625
Actual Return to Compliance Date: 20090612
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20090612
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 6000
Paid Amount: Not reported
Final Count: 1
Final Amount: 6000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150629
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 543
Date of Enforcement Action: 20150826
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20180323
Return to Compliance Qualifier: Not Resolved
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 320
Date of Enforcement Action: 20190517
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 20140508
Actual Return to Compliance Date: 20140519
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 540
Date of Enforcement Action: 20140521
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19931222
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19940129
Enforcement Identifier: 005
Date of Enforcement Action: 19941228
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Financial Requirements
Date Violation was Determined:	20030724
Actual Return to Compliance Date:	20030820
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	506
Date of Enforcement Action:	20030730
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170330
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 547
Date of Enforcement Action: 20170511
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19970616
Actual Return to Compliance Date: 19980113
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 011
Date of Enforcement Action: 19971215
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150820
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	313
Date of Enforcement Action:	20150730
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 20030724
Actual Return to Compliance Date: 20030820
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20030730
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20180323
Return to Compliance Qualifier: Not Resolved
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 317
Date of Enforcement Action: 20170330
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20180406
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20180406
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Permits - Changes
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180718
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20080625
Actual Return to Compliance Date: 20090612
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 515
Date of Enforcement Action: 20081009
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20140508
Actual Return to Compliance Date: 20140519
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 540
Date of Enforcement Action: 20140521
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Preparedness and Prevention
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20180406
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	317
Date of Enforcement Action:	20170330
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180712
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 549
Date of Enforcement Action: 20180724
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20180406
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 307
Date of Enforcement Action: 20190128
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20111213
Actual Return to Compliance Date: 20121217
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20120216
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: 20190531
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 320
Date of Enforcement Action: 20190517
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150702
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	543
Date of Enforcement Action:	20150826
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Chemical, Physical, AND Treatment
Date Violation was Determined:	19980629
Actual Return to Compliance Date:	20001220
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19981015
Enforcement Identifier:	012
Date of Enforcement Action:	19981015
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20101028
Actual Return to Compliance Date: 20110128
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 302
Date of Enforcement Action: 20101203
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20040602
Actual Return to Compliance Date: 20040609
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 507
Date of Enforcement Action: 20040917
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Manifest/Records/Reporting
Date Violation was Determined:	20160412
Actual Return to Compliance Date:	20160503
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	545
Date of Enforcement Action:	20160614
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 19991206
Actual Return to Compliance Date: 19991213
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 19991206
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20111213
Actual Return to Compliance Date: 20121217
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 305
Date of Enforcement Action: 20121217
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 10000
Paid Amount: Not reported
Final Count: 1
Final Amount: 10000

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20211109
Actual Return to Compliance Date:	20220201
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	554
Date of Enforcement Action:	20220113
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180816
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	306
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180712
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20100222
Actual Return to Compliance Date: 20100722
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 302
Date of Enforcement Action: 20101005
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 6500
Paid Amount: Not reported
Final Count: 1
Final Amount: 6500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20101028
Actual Return to Compliance Date: 20110128
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 304
Date of Enforcement Action: 20110721
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 7000
Paid Amount: Not reported
Final Count: 1
Final Amount: 7000

Found Violation: Unknown
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19950831
Actual Return to Compliance Date:	20001220
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	010
Date of Enforcement Action:	19970612
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - Prohibitions
Date Violation was Determined:	20160412
Actual Return to Compliance Date:	20160421
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	545
Date of Enforcement Action:	20160614
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19970616
Actual Return to Compliance Date:	19980113
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	011
Date of Enforcement Action:	19971215
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190419
Actual Return to Compliance Date:	20190614
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	306
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 20160412
Actual Return to Compliance Date: 20160503
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 545
Date of Enforcement Action: 20160614
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190315
Actual Return to Compliance Date: 20190315
Return to Compliance Qualifier: Not Resolved
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 553
Date of Enforcement Action: 20190315
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20080625
Actual Return to Compliance Date:	20090612
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20080721
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190315
Actual Return to Compliance Date: 20190315
Return to Compliance Qualifier: Not Resolved
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 322
Date of Enforcement Action: 20190315
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Unknown
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Container Use and Management
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150629
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	313
Date of Enforcement Action:	20150730
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 19910810
Actual Return to Compliance Date: 19911105
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19910923
Enforcement Responsible Agency: EPA

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20010213
Actual Return to Compliance Date: 20010226
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20010223
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20080625
Actual Return to Compliance Date: 20090612
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20080721
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150904
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 313
Date of Enforcement Action: 20150730
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190419
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	551
Date of Enforcement Action:	20190614
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: 20190531
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19931222
Actual Return to Compliance Date: 19940204
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19940129
Enforcement Identifier: 005
Date of Enforcement Action: 19941228
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170407
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 317
Date of Enforcement Action: 20170330
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Records/Reporting
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150811
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 543
Date of Enforcement Action: 20150826
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170407
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 547
Date of Enforcement Action: 20170511
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180816
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	549
Date of Enforcement Action:	20180724
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190315
Actual Return to Compliance Date: 20190315
Return to Compliance Qualifier: Not Resolved
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 553
Date of Enforcement Action: 20190315
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: 20190531
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 551
Date of Enforcement Action: 20190614
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19951031
Actual Return to Compliance Date:	20001220
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19951117
Enforcement Identifier:	009
Date of Enforcement Action:	19951101
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 50000
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150904
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 543
Date of Enforcement Action: 20150826
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180816
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 549
Date of Enforcement Action: 20180724
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190419
Actual Return to Compliance Date:	20190531
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	551
Date of Enforcement Action:	20190614
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150629
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 313
Date of Enforcement Action: 20150730
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19980629
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19981015
Enforcement Identifier: 012
Date of Enforcement Action: 19981015
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	20160412
Actual Return to Compliance Date:	20160824
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	545
Date of Enforcement Action:	20160614
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20151004
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 313
Date of Enforcement Action: 20150730
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170907
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 317
Date of Enforcement Action: 20170330
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150629
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	543
Date of Enforcement Action:	20150826
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150820
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 543
Date of Enforcement Action: 20150826
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20090623
Actual Return to Compliance Date: 20090826
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 518
Date of Enforcement Action: 20090827
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Container Use and Management
Date Violation was Determined:	20010213
Actual Return to Compliance Date:	20010226
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20010223
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 20040602
Actual Return to Compliance Date: 20040609
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 507
Date of Enforcement Action: 20040917
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20101028
Actual Return to Compliance Date: 20110128
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 530
Date of Enforcement Action: 20111230
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 20010213
Actual Return to Compliance Date: 20010226
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20010223
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19930916
Actual Return to Compliance Date: 20001218
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 203
Date of Enforcement Action: 20001218
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 425000
Paid Amount: Not reported
Final Count: 1
Final Amount: 825000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 19931222
Actual Return to Compliance Date: 19940204
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19940129
Enforcement Identifier: 005
Date of Enforcement Action: 19941228
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20151004
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	543
Date of Enforcement Action:	20150826
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Air Emission Standards - Process Vents
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150904
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 313
Date of Enforcement Action: 20150730
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Container Use and Management
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150629
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	543
Date of Enforcement Action:	20150826
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20160412
Actual Return to Compliance Date: 20160824
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 315
Date of Enforcement Action: 20160421
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Container Use and Management
Date Violation was Determined:	20010213
Actual Return to Compliance Date:	20010226
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	501
Date of Enforcement Action:	20010502
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20100222
Actual Return to Compliance Date: 20100722
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 519
Date of Enforcement Action: 20100423
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20160412
Actual Return to Compliance Date: 20160421
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 315
Date of Enforcement Action: 20160421
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170330
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 307
Date of Enforcement Action: 20190128
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20040602
Actual Return to Compliance Date: 20040609
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20040609
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170330
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 547
Date of Enforcement Action: 20170511
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19941212
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19941220
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 20040602
Actual Return to Compliance Date: 20040609
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20040609
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170907
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: 20190614
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INJUNCTIVE RELIEF
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	20010213
Actual Return to Compliance Date:	20010226
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	240
Date of Enforcement Action:	20020307
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 10000
Paid Amount: Not reported
Final Count: 1
Final Amount: 15000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19920403
Actual Return to Compliance Date: 19930121
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19920709
Enforcement Identifier: 001
Date of Enforcement Action: 19920409
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19931222
Actual Return to Compliance Date: 19940204
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19940129
Enforcement Identifier: 005
Date of Enforcement Action: 19941228
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19950831
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19950915
Enforcement Identifier: 007
Date of Enforcement Action: 19950829
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20090623
Actual Return to Compliance Date: 20090826
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 300
Date of Enforcement Action: 20100211
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 23000
Paid Amount: Not reported
Final Count: 1
Final Amount: 23000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20110529
Actual Return to Compliance Date: 20110828
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 301
Date of Enforcement Action: 20110627
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150904
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 543
Date of Enforcement Action: 20150826
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190315
Actual Return to Compliance Date: 20190315
Return to Compliance Qualifier: Not Resolved
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20111213
Actual Return to Compliance Date: 20121217
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 535
Date of Enforcement Action: 20120216
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180712
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19950831
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19950915
Enforcement Identifier: 007
Date of Enforcement Action: 19950829
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: 20190614
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 320
Date of Enforcement Action: 20190517
Enforcement Responsible Agency: State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20211109
Actual Return to Compliance Date:	20220201
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	324
Date of Enforcement Action:	20220113
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20010213
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20010226
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180712
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19920225
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19930121
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19970616
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19980113
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060627
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060807
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090623
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090826
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20131024
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190425
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20151004
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19991206
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19991213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20080625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090612
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170907
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160503
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180323
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19990517
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19990517
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930916
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001218
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20030424
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180718
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150904
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050621
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060605
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160503
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180712
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20211130
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150629
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180816
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090826
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150702
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20080625
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20160502
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150904
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20130625
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	19970616
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19970113
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19980629
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19981015
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150915
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20060627
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060807
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050621
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060605
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190531
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19970616
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19980113
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19920225
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19930121
Scheduled Compliance Date:	19920709
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20140113
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19991014
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19930916
Scheduled Compliance Date:	19930710
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180406
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20100222
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20100722
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20070613
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20071114
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090612
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180712
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	20080618
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150629
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180712
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20140127
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20050629
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20101026
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20110529
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20110828
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19951117
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170907
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20140508
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20140519
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150811
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190531
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20151004
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190531
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040628
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090826
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930916
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001218
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19941102
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950829
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19980629
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19981015
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	20010626
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOLLOW-UP INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010726
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090826
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160421
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20140508
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20140519
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180323
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170907
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19860917
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19920225
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19930121
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180712
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930107
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20070613
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20071114
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930916
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940204
Scheduled Compliance Date:	19940129
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20010626
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOLLOW-UP INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010726
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180718
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050621
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060605
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20070613
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20071114
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180816
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19990517
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19990517
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190614
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19941102
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20050621
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060605
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190531
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050621
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060605
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180718
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150629
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180816
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050621
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060605
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20211109
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090623
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19941102
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20061109
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160421
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180711
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180718
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	20080625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090612
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150629
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180323
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20140508
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20140519
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930916
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19940129
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20030724
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030820
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19970616
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19980113
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150820
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20030724
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030820
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180323
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20130904
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180406
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180406
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180718
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20080625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090612
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20140508
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20140519

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180406
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180712
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180406
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20111213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20121217
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190531
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20100224
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150702
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090611
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20130904
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19980629
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19981015
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20101028
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20110128
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040602
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040609
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160503
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19991206
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19991213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20111213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20121217
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20140612
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20211109
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20220201
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180816
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180712
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20100222
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20100722
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20101028
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20110128
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190910
Evaluation Responsible Agency:	EPA
Found Violation:	Undetermined
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	SYLIN
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20120531
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	BCOFE
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160421
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19970616
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19980113
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	20090826
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190614
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160503
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20080625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090612
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20060922
Evaluation Responsible Agency:	EPA Contractor/Grantee
Found Violation:	Undetermined
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	KSAVA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150629
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910711
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911105
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20080625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090612
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150904
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190531
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930916
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940204
Scheduled Compliance Date:	19940129
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170407
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150811

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170407
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180816
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190531
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19951117
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150904
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180816
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190531
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150629
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19980629
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19981015
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160824
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20151004
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170907
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150629
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150820
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090826
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040602
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040609
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20101028
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20110128
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930916
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001218
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930916
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940204

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	19940129
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20151004
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150904
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20120524
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150629
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160824
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20100222
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20100722
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160421
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20070615
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20140127
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180406
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20210224
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	LLC
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040602
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040609
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19941102
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040602
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040609
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170907
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190614
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19920225
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19930121
Scheduled Compliance Date:	19920709
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930916
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940204
Scheduled Compliance Date:	19940129
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090826
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	20110529
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20110828
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150904
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20111213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20121217
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180712
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190614
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20211109
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20220201
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20010423
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency: Not reported
Former Citation: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

RCRA-LQG:

Date Form Received by Agency:	20210212
Handler Name:	SAFETY-KLEEN OF CALIFORNIA INC
Handler Address:	6880 SMITH AVE
Handler City,State,Zip:	NEWARK, CA 94560-0000
EPA ID:	CAD980887418
Contact Name:	NEIL BARTLEY BARTLEY
Contact Address:	SMITH AVE
Contact City,State,Zip:	NEWARK, CA 94560-0000
Contact Telephone:	510-795-4400
Contact Fax:	Not reported
Contact Email:	NEIL.BARTLEY@SAFETY-KLEEN.COM
Contact Title:	GENERAL MANAGER
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2020
Accessibility:	Not reported
Active Site Indicator:	Handler Activities, Permitting Activities, Corrective Action Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	SMITH AVE
Mailing City,State,Zip:	NEWARK, CA 94560-0000
Owner Name:	CLEAN HARBORS INC
Owner Type:	Private
Operator Name:	SAFETY KLEEN OF CALIFORNIA
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	Yes
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	Yes
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Storage, Treatment
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	Yes
Treatment Storage and Disposal Type:	Storage, Treatment
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Accomplished
Permit Renewals Workload Universe:	Storage, Treatment
Permit Workload Universe:	Storage, Treatment
Permit Progress Universe:	Storage, Treatment
Post-Closure Workload Universe:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Closure Workload Universe:	Treatment
202 GPRA Corrective Action Baseline:	Yes
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	Yes
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	Yes
Operating TSDF Universe:	Storage, Treatment
Full Enforcement Universe:	Storage, Treatment
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	Yes
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	Yes
Financial Assurance Required:	Closure, Sudden Third-Party Liability
Handler Date of Last Change:	20210426
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D010
Waste Description:	SELENIUM
Waste Code:	D011
Waste Description:	SILVER
Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	D019
Waste Description:	CARBON TETRACHLORIDE
Waste Code:	D020
Waste Description:	CHLORDANE
Waste Code:	D021
Waste Description:	CHLOROBENZENE
Waste Code:	D022
Waste Description:	CHLOROFORM
Waste Code:	D027
Waste Description:	1,4-DICHLOROBENZENE
Waste Code:	D028
Waste Description:	1,2-DICHLOROETHANE

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Waste Code: D029
Waste Description: 1,1-DICHLOROETHYLENE

Waste Code: D030
Waste Description: 2,4-DINITROTOLUENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D036
Waste Description: NITROBENZENE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Waste Code: F001
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F004
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F006
Waste Description: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Waste Code: F037
Waste Description: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE - ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORM WATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGES GENERATED IN STORM WATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS), AND K051 WASTES ARE EXEMPTED FROM THIS LISTING.

Waste Code: F038
Waste Description: PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE - ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS), AND F037, K048, AND K051 WASTES ARE EXEMPTED FROM THIS LISTING.

Waste Code: K048
Waste Description: DISSOLVED AIR FLOTATION (DAF) FLOAT FROM THE PETROLEUM REFINING INDUSTRY.

Waste Code: K049
Waste Description: SLOP OIL EMULSION SOLIDS FROM THE PETROLEUM REFINING INDUSTRY.

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Waste Code: K050
Waste Description: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY.

Waste Code: K051
Waste Description: API SEPARATOR SLUDGE FROM THE PETROLEUM REFINING INDUSTRY.

Waste Code: K052
Waste Description: TANK BOTTOMS (LEADED) FROM THE PETROLEUM REFINING INDUSTRY.

Waste Code: K157
Waste Description: WASTEWATERS (INCLUDING SCRUBBER WATERS, CONDENSER WATERS, WASHWATERS, AND SEPARATION WATERS) FROM THE PRODUCTION OF CARBAMATES AND CARBAMOYL OXIMES.

Waste Code: P011
Waste Description: ARSENIC OXIDE AS2O5 (OR) ARSENIC PENTOXIDE

Waste Code: P012
Waste Description: ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE

Waste Code: P022
Waste Description: CARBON DISULFIDE

Waste Code: P029
Waste Description: COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)

Waste Code: P068
Waste Description: HYDRAZINE, METHYL- (OR) METHYL HYDRAZINE

Waste Code: P098
Waste Description: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

Waste Code: P105
Waste Description: SODIUM AZIDE

Waste Code: P106
Waste Description: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

Waste Code: P120
Waste Description: VANADIUM OXIDE V2O5 (OR) VANADIUM PENTOXIDE

Waste Code: U001
Waste Description: ACETALDEHYDE (I) (OR) ETHANAL (I)

Waste Code: U002
Waste Description: 2-PROPANONE (I) (OR) ACETONE (I)

Waste Code: U003
Waste Description: ACETONITRILE (I,T)

Waste Code: U007
Waste Description: 2-PROPENAMIDE (OR) ACRYLAMIDE

Waste Code: U012
Waste Description: ANILINE (I,T) (OR) BENZENAMINE (I,T)

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Waste Code: U019
Waste Description: BENZENE (I,T)

Waste Code: U021
Waste Description: [1,1'-BIPHENYL]-4,4'-DIAMINE (OR) BENZIDINE

Waste Code: U031
Waste Description: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)

Waste Code: U034
Waste Description: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

Waste Code: U041
Waste Description: EPICHLOROHYDRIN (OR) OXIRANE, (CHLOROMETHYL)-

Waste Code: U043
Waste Description: ETHENE, CHLORO- (OR) VINYL CHLORIDE

Waste Code: U044
Waste Description: CHLOROFORM (OR) METHANE, TRICHLORO-

Waste Code: U052
Waste Description: CRESOL (CRESYLIC ACID) (OR) PHENOL, METHYL-

Waste Code: U056
Waste Description: BENZENE, HEXAHYDRO- (I) (OR) CYCLOHEXANE (I)

Waste Code: U057
Waste Description: CYCLOHEXANONE (I)

Waste Code: U070
Waste Description: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

Waste Code: U071
Waste Description: BENZENE, 1,3-DICHLORO- (OR) M-DICHLOROBENZENE

Waste Code: U072
Waste Description: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

Waste Code: U080
Waste Description: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE

Waste Code: U105
Waste Description: 2,4-DINITROTOLUENE (OR) BENZENE, 1-METHYL-2,4-DINITRO-

Waste Code: U106
Waste Description: 2,6-DINITROTOLUENE (OR) BENZENE, 2-METHYL-1,3-DINITRO-

Waste Code: U112
Waste Description: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)

Waste Code: U117
Waste Description: ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)

Waste Code: U122
Waste Description: FORMALDEHYDE

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Waste Code: U134
Waste Description: HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)

Waste Code: U151
Waste Description: MERCURY

Waste Code: U154
Waste Description: METHANOL (I) (OR) METHYL ALCOHOL (I)

Waste Code: U159
Waste Description: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

Waste Code: U165
Waste Description: NAPHTHALENE

Waste Code: U183
Waste Description: BENZENE, PENTACHLORO- (OR) PENTACHLOROBENZENE

Waste Code: U188
Waste Description: PHENOL

Waste Code: U196
Waste Description: PYRIDINE

Waste Code: U201
Waste Description: 1,3-BENZENEDIOL (OR) RESORCINOL

Waste Code: U211
Waste Description: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

Waste Code: U218
Waste Description: ETHANETHIOAMIDE (OR) THIOACETAMIDE

Waste Code: U219
Waste Description: THIOUREA

Waste Code: U220
Waste Description: BENZENE, METHYL- (OR) TOLUENE

Waste Code: U228
Waste Description: ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE

Waste Code: U239
Waste Description: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Waste Code: U404
Waste Description: U404

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: EVERGREEN OIL, INC.
Legal Status: Private
Date Became Current: 19851010
Date Ended Current: Not reported
Owner/Operator Address: P.O. BOX 248
Owner/Operator City,State,Zip: NEWARK, CA 94560
Owner/Operator Telephone: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	EVERGREEN OIL, OIL.
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE.
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN OF CALIFORNIA
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	CLEAN HARBORS, INC
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	CLEAN HARBORS INC
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-608-0155
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	ZEBRE.JESSICA@CLEANHARBORS.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	19851010
Date Ended Current:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Owner/Operator Address:	P.O. BOX 248
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE.
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	EVERGREEN OIL, OIL.
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE.
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	19860824
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	EVERGREEN OIL, INC
Legal Status:	Private
Date Became Current:	19860824
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	135
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY KLEEN OF CALIFORNIA

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-608-0155
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	ZEBRE.JESSICA@CLEANHARBORS.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name:	CLEAN HARBORS INC
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	42 LONGWATER
Owner/Operator City,State,Zip:	NORWELL, MA 02061
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	ZEBRE.JESSICA@CLEANHARBORS.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE.
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	19860824
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	19860824
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	19860824
Date Ended Current:	Not reported
Owner/Operator Address:	P.O. BOX 248
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CLEAN HARBORS INC
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	42 LONGWATER
Owner/Operator City,State,Zip:	NORWELL, MA 02061
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	ZEBRE.JESSICA@CLEANHARBORS.COM

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY KLEEN OF CALIFORNIA
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE
Owner/Operator City,State,Zip:	NEWARK, CA 94560-0000
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	ZEBRE.JESSICA@CLEANHARBORS.COM

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN OF CALIFORNIA INC
Legal Status:	Private
Date Became Current:	19860301
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	19851010
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	EVERGREEN OIL, INC
Legal Status:	Private
Date Became Current:	19851010
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	135
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY KLEEN OF CALIFORNIA
Legal Status:	Private
Date Became Current:	20130913
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE
Owner/Operator City,State,Zip:	NEWARK, CA 94560-0000
Owner/Operator Telephone:	510-795-4400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	ZEBRE.JESSICA@CLEANHARBORS.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name:	EVERGREEN OIL, INC.
Legal Status:	Private
Date Became Current:	19851010
Date Ended Current:	Not reported
Owner/Operator Address:	P.O. BOX 248
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	EVERGREEN OIL INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6880 SMITH AVE
Owner/Operator City,State,Zip:	NEWARK, CA 94560
Owner/Operator Telephone:	510-795-4401
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN OF CALIFORNIA INC
Legal Status:	Private
Date Became Current:	20130901
Date Ended Current:	Not reported
Owner/Operator Address:	2660 N CENTRAL EXPWY

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Owner/Operator City,State,Zip: RICHARD, TX 75080
Owner/Operator Telephone: 972-265-2000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20100802
Handler Name: EVERGREEN OIL, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20130314
Handler Name: EVERGREEN OIL, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20140301
Handler Name: EVERGREEN OIL, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20160301
Handler Name: SAFETY-KLEEN OF CALIFORNIA
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Electronic Manifest Broker: Not reported

Receive Date: 20180213
Handler Name: SAFETY-KLEEN OF CALIFORNIA INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20200218
Handler Name: SAFETY-KLEEN OF CALIFORNIA INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20210212
Handler Name: SAFETY-KLEEN OF CALIFORNIA INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 19931115
Handler Name: EVERGREEN OIL INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19961105
Handler Name: EVERGREEN OIL INC
Federal Waste Generator Description: Large Quantity Generator

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150720
Handler Name: SAFETY-KLEEN OF CALIFORNIA INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920227
Handler Name: EVERGREEN OIL INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940317
Handler Name: EVERGREEN OIL, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960327
Handler Name: EVERGREEN OIL, INCORPORATED
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20001012
Handler Name: EVERGREEN OIL, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020227
Handler Name: EVERGREEN OIL INC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040325
Handler Name: EVERGREEN OIL, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060228
Handler Name: EVERGREEN OIL, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Receive Date:	20080328
Handler Name:	EVERGREEN OIL, INC.
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	32411
NAICS Description:	PETROLEUM REFINERIES
NAICS Code:	324191
NAICS Description:	PETROLEUM LUBRICATING OIL AND GREASE MANUFACTURING
NAICS Code:	424710
NAICS Description:	PETROLEUM BULK STATIONS AND TERMINALS
NAICS Code:	562112
NAICS Description:	HAZARDOUS WASTE COLLECTION
NAICS Code:	562211
NAICS Description:	HAZARDOUS WASTE TREATMENT AND DISPOSAL
NAICS Code:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR
NAICS Code:	92411
NAICS Description:	ADMINISTRATION OF AIR AND WATER RESOURCE AND SOLID WASTE MANAGEMENT PROGRAMS

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Tank System Standards
Date Violation was Determined:	20010213
Actual Return to Compliance Date:	20010226
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	501
Date of Enforcement Action:	20010502
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180712
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 549
Date of Enforcement Action: 20180724
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19920403
Actual Return to Compliance Date:	19930121
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	19931026
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19970616
Actual Return to Compliance Date:	19980113
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	011
Date of Enforcement Action:	19971215
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 20060627
Actual Return to Compliance Date: 20060807
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20060719
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20090623
Actual Return to Compliance Date:	20090826
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	300
Date of Enforcement Action:	20100211
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	SINGLE SITE CA/FO
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	23000
Paid Amount:	Not reported
Final Count:	1
Final Amount:	23000

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20151004
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	313
Date of Enforcement Action:	20150730
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190315
Actual Return to Compliance Date:	20190315
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	322
Date of Enforcement Action:	20190315
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 19991206
Actual Return to Compliance Date: 19991213
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 503
Date of Enforcement Action: 20000327
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20080625
Actual Return to Compliance Date:	20090612
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	515
Date of Enforcement Action:	20081009
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20170907
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	306
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 20160412
Actual Return to Compliance Date: 20160503
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 315
Date of Enforcement Action: 20160421
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20180323
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	308
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INJUNCTIVE RELIEF
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190315
Actual Return to Compliance Date:	20190315
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	306
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Transporters - Manifest System and Recordkeeping
Date Violation was Determined: 19990517
Actual Return to Compliance Date: 19990517
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 19990714
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	19930916
Actual Return to Compliance Date:	20001218
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	528
Date of Enforcement Action:	19941212
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Permits - Changes
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180718
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 549
Date of Enforcement Action: 20180724
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19950831
Actual Return to Compliance Date:	20001220
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	010
Date of Enforcement Action:	19970612
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Tank System Standards
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150904
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	313
Date of Enforcement Action:	20150730
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Permits - Application
Date Violation was Determined: 20050621
Actual Return to Compliance Date: 20060605
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 201
Date of Enforcement Action: 20060605
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 9000
Paid Amount: Not reported
Final Count: 1
Final Amount: 9000

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Manifest/Records/Reporting
Date Violation was Determined:	20160412
Actual Return to Compliance Date:	20160503
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	315
Date of Enforcement Action:	20160421
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180712
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	306
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190315
Actual Return to Compliance Date:	20190315
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	306
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150629
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	313
Date of Enforcement Action:	20150730
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180816
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 318
Date of Enforcement Action: 20180626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20090623
Actual Return to Compliance Date:	20090826
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20090730
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150702
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	313
Date of Enforcement Action:	20150730
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190315
Actual Return to Compliance Date: 20190315
Return to Compliance Qualifier: Not Resolved
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Air Emission Standards - Process Vents
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150904
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 543
Date of Enforcement Action: 20150826
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19970113
Actual Return to Compliance Date:	19970113
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	011
Date of Enforcement Action:	19971215
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19980629
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19981015
Enforcement Identifier: 012
Date of Enforcement Action: 19981015
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20170330
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	317
Date of Enforcement Action:	20170330
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 20060627
Actual Return to Compliance Date: 20060807
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 510
Date of Enforcement Action: 20061108
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	20050621
Actual Return to Compliance Date:	20060605
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	203
Date of Enforcement Action:	20050812
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190419
Actual Return to Compliance Date:	20190531
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	308
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19971215
Actual Return to Compliance Date: 19980113
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 011
Date of Enforcement Action: 19971215
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19920403
Actual Return to Compliance Date:	19930121
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19920709
Enforcement Identifier:	001
Date of Enforcement Action:	19920409
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19950831
Actual Return to Compliance Date:	20001220
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	009
Date of Enforcement Action:	19951101
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 50000
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190315
Actual Return to Compliance Date:	20190315
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	553
Date of Enforcement Action:	20190315
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19930225
Actual Return to Compliance Date: 19930916
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19930710
Enforcement Identifier: 003
Date of Enforcement Action: 19930305
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Preparedness and Prevention
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20180406
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	547
Date of Enforcement Action:	20170511
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20170330
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	547
Date of Enforcement Action:	20170511
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20100222
Actual Return to Compliance Date: 20100722
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 300
Date of Enforcement Action: 20100311
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Tank System Standards
Date Violation was Determined:	20010213
Actual Return to Compliance Date:	20010226
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	235
Date of Enforcement Action:	20011213
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	29000
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Manifest/Records/Reporting
Date Violation was Determined:	20070613
Actual Return to Compliance Date:	20071114
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20070628
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180712
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	308
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Container Use and Management
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150629
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	313
Date of Enforcement Action:	20150730
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180712
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	318
Date of Enforcement Action:	20180626
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20110529
Actual Return to Compliance Date: 20110828
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 529
Date of Enforcement Action: 20110803
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19951031
Actual Return to Compliance Date:	20001220
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19951117
Enforcement Identifier:	008
Date of Enforcement Action:	19951031
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20170907
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	547
Date of Enforcement Action:	20170511
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20140508
Actual Return to Compliance Date: 20140519
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 310
Date of Enforcement Action: 20140519
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Records/Reporting
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150811
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	313
Date of Enforcement Action:	20150730
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190419
Actual Return to Compliance Date:	20190531
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	320
Date of Enforcement Action:	20190517
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20151004
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 543
Date of Enforcement Action: 20150826
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190419
Actual Return to Compliance Date:	20190531
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	551
Date of Enforcement Action:	20190614
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	20010213
Actual Return to Compliance Date:	20010226
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	501
Date of Enforcement Action:	20010502
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19951031
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 010
Date of Enforcement Action: 19970612
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	20010213
Actual Return to Compliance Date:	20010226
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	235
Date of Enforcement Action:	20011213
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 29000
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20090623
Actual Return to Compliance Date: 20090826
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20090730
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19930916
Actual Return to Compliance Date: 20001218
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 201
Date of Enforcement Action: 19941220
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Chemical, Physical, AND Treatment
Date Violation was Determined: 19941212
Actual Return to Compliance Date: 19950829
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19941220
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Thermal Treatment
Date Violation was Determined: 19980629
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19981015
Enforcement Identifier: 012
Date of Enforcement Action: 19981015
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20010626
Actual Return to Compliance Date:	20010726
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	201
Date of Enforcement Action:	20010627
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190315
Actual Return to Compliance Date:	20190315
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	308
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20090623
Actual Return to Compliance Date: 20090826
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 518
Date of Enforcement Action: 20090827
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20160412
Actual Return to Compliance Date:	20160421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	545
Date of Enforcement Action:	20160614
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190315
Actual Return to Compliance Date:	20190315
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	322
Date of Enforcement Action:	20190315
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 20140508
Actual Return to Compliance Date: 20140519
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 310
Date of Enforcement Action: 20140519
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20180323
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	547
Date of Enforcement Action:	20170511
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20170907
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	307
Date of Enforcement Action:	20190128
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170330
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19920403
Actual Return to Compliance Date:	19930121
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	19931026
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180712
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 318
Date of Enforcement Action: 20180626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Manifest/Records/Reporting
Date Violation was Determined:	20070613
Actual Return to Compliance Date:	20071114
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	512
Date of Enforcement Action:	20071018
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19931222
Actual Return to Compliance Date: 19940204
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19940129
Enforcement Identifier: 005
Date of Enforcement Action: 19941228
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20010626
Actual Return to Compliance Date:	20010726
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	514
Date of Enforcement Action:	20010814
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Tank System Standards
Date Violation was Determined:	20010213
Actual Return to Compliance Date:	20010226
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	240
Date of Enforcement Action:	20020307
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 10000
Paid Amount: Not reported
Final Count: 1
Final Amount: 15000

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	20050621
Actual Return to Compliance Date:	20060605
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	509
Date of Enforcement Action:	20050929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Manifest/Records/Reporting
Date Violation was Determined:	20070613
Actual Return to Compliance Date:	20071114
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20080624
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 8000
Paid Amount: Not reported
Final Count: 1
Final Amount: 8000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19950831
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 009
Date of Enforcement Action: 19951101
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 50000
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180816
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	308
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INJUNCTIVE RELIEF
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20170330
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	317
Date of Enforcement Action:	20170330
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Transporters - Manifest System and Recordkeeping
Date Violation was Determined: 19990517
Actual Return to Compliance Date: 19990517
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 500
Date of Enforcement Action: 20000327
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190419
Actual Return to Compliance Date:	20190614
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	551
Date of Enforcement Action:	20190614
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19941212
Actual Return to Compliance Date:	20001220
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19941220
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Permits - Application
Date Violation was Determined: 20050621
Actual Return to Compliance Date: 20060605
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 203
Date of Enforcement Action: 20050812
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190419
Actual Return to Compliance Date:	20190531
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	320
Date of Enforcement Action:	20190517
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Permits - Application
Date Violation was Determined:	20050621
Actual Return to Compliance Date:	20060605
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	509
Date of Enforcement Action:	20050929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Permits - Changes
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180718
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190315
Actual Return to Compliance Date:	20190315
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	308
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INJUNCTIVE RELIEF
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150629
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 543
Date of Enforcement Action: 20150826
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20170330
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	306
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180816
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	318
Date of Enforcement Action:	20180626
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20050621
Actual Return to Compliance Date: 20060605
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 201
Date of Enforcement Action: 20060605
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 9000
Paid Amount: Not reported
Final Count: 1
Final Amount: 9000

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Container Use and Management
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20170330
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	317
Date of Enforcement Action:	20170330
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19941212
Actual Return to Compliance Date:	20001220
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19941220
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - Prohibitions
Date Violation was Determined: 20160412
Actual Return to Compliance Date: 20160421
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 315
Date of Enforcement Action: 20160421
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Permits - Changes
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180718
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	318
Date of Enforcement Action:	20180626
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20080625
Actual Return to Compliance Date: 20090612
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20090612
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 6000
Paid Amount: Not reported
Final Count: 1
Final Amount: 6000

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Container Use and Management
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150629
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	543
Date of Enforcement Action:	20150826
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20180323
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	306
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 320
Date of Enforcement Action: 20190517
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Manifest/Records/Reporting
Date Violation was Determined:	20140508
Actual Return to Compliance Date:	20140519
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	540
Date of Enforcement Action:	20140521
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19931222
Actual Return to Compliance Date:	20001220
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19940129
Enforcement Identifier:	005
Date of Enforcement Action:	19941228
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 20030724
Actual Return to Compliance Date: 20030820
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 506
Date of Enforcement Action: 20030730
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20170330
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	547
Date of Enforcement Action:	20170511
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19970616
Actual Return to Compliance Date:	19980113
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	011
Date of Enforcement Action:	19971215
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150820
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 313
Date of Enforcement Action: 20150730
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Financial Requirements
Date Violation was Determined:	20030724
Actual Return to Compliance Date:	20030820
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20030730
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20180323
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	317
Date of Enforcement Action:	20170330
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Preparedness and Prevention
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20180406
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	308
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INJUNCTIVE RELIEF
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Preparedness and Prevention
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20180406
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	306
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Permits - Changes
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180718
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20080625
Actual Return to Compliance Date:	20090612
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	515
Date of Enforcement Action:	20081009
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	20140508
Actual Return to Compliance Date:	20140519
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	540
Date of Enforcement Action:	20140521
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20180406
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 317
Date of Enforcement Action: 20170330
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180712
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	549
Date of Enforcement Action:	20180724
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Preparedness and Prevention
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20180406
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	307
Date of Enforcement Action:	20190128
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20111213
Actual Return to Compliance Date: 20121217
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20120216
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190419
Actual Return to Compliance Date:	20190531
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	320
Date of Enforcement Action:	20190517
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150702
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 543
Date of Enforcement Action: 20150826
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Chemical, Physical, AND Treatment
Date Violation was Determined: 19980629
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19981015
Enforcement Identifier: 012
Date of Enforcement Action: 19981015
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20101028
Actual Return to Compliance Date: 20110128
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 302
Date of Enforcement Action: 20101203
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20040602
Actual Return to Compliance Date: 20040609
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 507
Date of Enforcement Action: 20040917
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 20160412
Actual Return to Compliance Date: 20160503
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 545
Date of Enforcement Action: 20160614
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Preparedness and Prevention
Date Violation was Determined:	19991206
Actual Return to Compliance Date:	19991213
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	19991206
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20111213
Actual Return to Compliance Date:	20121217
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	305
Date of Enforcement Action:	20121217
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 10000
Paid Amount: Not reported
Final Count: 1
Final Amount: 10000

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20211109
Actual Return to Compliance Date:	20220201
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	554
Date of Enforcement Action:	20220113
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180816
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	306
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180712
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 308
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	20100222
Actual Return to Compliance Date:	20100722
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	302
Date of Enforcement Action:	20101005
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	SINGLE SITE CA/FO
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	6500
Paid Amount:	Not reported
Final Count:	1
Final Amount:	6500

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20101028
Actual Return to Compliance Date:	20110128
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	304
Date of Enforcement Action:	20110721
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 7000
Paid Amount: Not reported
Final Count: 1
Final Amount: 7000

Found Violation: Unknown
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19950831
Actual Return to Compliance Date:	20001220
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	010
Date of Enforcement Action:	19970612
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - Prohibitions
Date Violation was Determined: 20160412
Actual Return to Compliance Date: 20160421
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 545
Date of Enforcement Action: 20160614
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19970616
Actual Return to Compliance Date:	19980113
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	011
Date of Enforcement Action:	19971215
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9EPA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: 20190614
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Manifest/Records/Reporting
Date Violation was Determined:	20160412
Actual Return to Compliance Date:	20160503
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	545
Date of Enforcement Action:	20160614
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190315
Actual Return to Compliance Date:	20190315
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	553
Date of Enforcement Action:	20190315
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20080625
Actual Return to Compliance Date: 20090612
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20080721
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190315
Actual Return to Compliance Date:	20190315
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	322
Date of Enforcement Action:	20190315
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Unknown
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150629
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 313
Date of Enforcement Action: 20150730
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190419
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	308
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INJUNCTIVE RELIEF
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	LDR - General
Date Violation was Determined:	19910810
Actual Return to Compliance Date:	19911105
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19910923
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20010213
Actual Return to Compliance Date: 20010226
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20010223
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20080625
Actual Return to Compliance Date:	20090612
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20080721
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150904
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	313
Date of Enforcement Action:	20150730
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 551
Date of Enforcement Action: 20190614
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190419
Actual Return to Compliance Date:	20190531
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	306
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19931222
Actual Return to Compliance Date:	19940204
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19940129
Enforcement Identifier:	005
Date of Enforcement Action:	19941228
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170407
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 317
Date of Enforcement Action: 20170330
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Records/Reporting
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150811
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	543
Date of Enforcement Action:	20150826
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20170407
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	547
Date of Enforcement Action:	20170511
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180816
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 549
Date of Enforcement Action: 20180724
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190315
Actual Return to Compliance Date:	20190315
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	553
Date of Enforcement Action:	20190315
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190419
Actual Return to Compliance Date:	20190531
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	551
Date of Enforcement Action:	20190614
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19951031
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19951117
Enforcement Identifier: 009
Date of Enforcement Action: 19951101
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 50000
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Tank System Standards
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150904
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	543
Date of Enforcement Action:	20150826
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20180619
Actual Return to Compliance Date:	20180816
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	549
Date of Enforcement Action:	20180724
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: 20190531
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 551
Date of Enforcement Action: 20190614
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150629
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	313
Date of Enforcement Action:	20150730
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19980629
Actual Return to Compliance Date:	20001220
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19981015
Enforcement Identifier:	012
Date of Enforcement Action:	19981015
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20160412
Actual Return to Compliance Date: 20160824
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 545
Date of Enforcement Action: 20160614
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20151004
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	313
Date of Enforcement Action:	20150730
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20170907
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	317
Date of Enforcement Action:	20170330
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150629
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 543
Date of Enforcement Action: 20150826
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150820
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	543
Date of Enforcement Action:	20150826
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20090623
Actual Return to Compliance Date:	20090826
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	518
Date of Enforcement Action:	20090827
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 20010213
Actual Return to Compliance Date: 20010226
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20010223
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Tank System Standards
Date Violation was Determined:	20040602
Actual Return to Compliance Date:	20040609
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	507
Date of Enforcement Action:	20040917
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20101028
Actual Return to Compliance Date:	20110128
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	530
Date of Enforcement Action:	20111230
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 20010213
Actual Return to Compliance Date: 20010226
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20010223
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	19930916
Actual Return to Compliance Date:	20001218
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	203
Date of Enforcement Action:	20001218
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	425000
Paid Amount:	Not reported
Final Count:	1
Final Amount:	825000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	19931222
Actual Return to Compliance Date:	19940204
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19940129
Enforcement Identifier:	005
Date of Enforcement Action:	19941228
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20151004
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 543
Date of Enforcement Action: 20150826
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Air Emission Standards - Process Vents
Date Violation was Determined:	20150625
Actual Return to Compliance Date:	20150904
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	313
Date of Enforcement Action:	20150730
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150629
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 543
Date of Enforcement Action: 20150826
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	20160412
Actual Return to Compliance Date:	20160824
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	315
Date of Enforcement Action:	20160421
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 20010213
Actual Return to Compliance Date: 20010226
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 501
Date of Enforcement Action: 20010502
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	20100222
Actual Return to Compliance Date:	20100722
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	519
Date of Enforcement Action:	20100423
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20160412
Actual Return to Compliance Date:	20160421
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	315
Date of Enforcement Action:	20160421
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20170330
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	307
Date of Enforcement Action:	20190128
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	REFERRAL TO ATTORNEY GENERAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	20040602
Actual Return to Compliance Date:	20040609
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20040609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 20170314
Actual Return to Compliance Date: 20170330
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 547
Date of Enforcement Action: 20170511
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19941212
Actual Return to Compliance Date:	20001220
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19941220
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Tank System Standards
Date Violation was Determined:	20040602
Actual Return to Compliance Date:	20040609
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20040609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20190419
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20170314
Actual Return to Compliance Date:	20170907
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	308
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INJUNCTIVE RELIEF
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190419
Actual Return to Compliance Date:	20190614
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	308
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INJUNCTIVE RELIEF
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20010213
Actual Return to Compliance Date: 20010226
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 240
Date of Enforcement Action: 20020307
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 10000
Paid Amount: Not reported
Final Count: 1
Final Amount: 15000

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19920403
Actual Return to Compliance Date:	19930121
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19920709
Enforcement Identifier:	001
Date of Enforcement Action:	19920409
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19931222
Actual Return to Compliance Date:	19940204
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19940129
Enforcement Identifier:	005
Date of Enforcement Action:	19941228
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19950831
Actual Return to Compliance Date: 20001220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19950915
Enforcement Identifier: 007
Date of Enforcement Action: 19950829
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20090623
Actual Return to Compliance Date:	20090826
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	300
Date of Enforcement Action:	20100211
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	SINGLE SITE CA/FO
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	23000
Paid Amount:	Not reported
Final Count:	1
Final Amount:	23000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20110529
Actual Return to Compliance Date:	20110828
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	301
Date of Enforcement Action:	20110627
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 20150625
Actual Return to Compliance Date: 20150904
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 543
Date of Enforcement Action: 20150826
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190315
Actual Return to Compliance Date:	20190315
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	306
Date of Enforcement Action:	20210929
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20111213
Actual Return to Compliance Date:	20121217
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	535
Date of Enforcement Action:	20120216
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20180619
Actual Return to Compliance Date: 20180712
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 20210929
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19950831
Actual Return to Compliance Date:	20001220
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19950915
Enforcement Identifier:	007
Date of Enforcement Action:	19950829
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20190419
Actual Return to Compliance Date:	20190614
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	320
Date of Enforcement Action:	20190517
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20211109
Actual Return to Compliance Date: 20220201
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 324
Date of Enforcement Action: 20220113
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20010213
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20010226
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20180619
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180712
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19920225
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19930121
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19970616
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19980113
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060627
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060807
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090826
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20131024
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190425
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20151004
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19991206
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19991213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20080625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090612
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170907
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160503
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180323

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19990517
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19990517
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930916
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001218
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20030424
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180718
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150904
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20050621
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060605
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160503
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180712
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20211130
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150629
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180816
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090826
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150702
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20080625
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160502
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150904
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20130625
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19970616
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19970113

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19980629
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19981015
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150915
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060627
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060807
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	20050621
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060605
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190531
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19970616
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19980113
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19920225
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19930121
Scheduled Compliance Date:	19920709
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20140113
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19991014
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19930916
Scheduled Compliance Date:	19930710
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180406
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100222
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20100722
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20070613
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20071114
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090612
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180712
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20080618
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150629
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180712
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20140127
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050629
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	20101026
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20110529
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20110828
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19951117
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170907
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20140508
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20140519
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150811
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190531
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20151004
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190531
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040628
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090623
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090826
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930916
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001218
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19941102
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950829
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19980629
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19981015
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20010626
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOLLOW-UP INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010726

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090826
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160421
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	20140508
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20140519
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180323
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170907
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19860917
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19920225
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19930121
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180712
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930107
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20070613
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20071114
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930916
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940204
Scheduled Compliance Date:	19940129
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20010626
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOLLOW-UP INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010726
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180718
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050621
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060605
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070613
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20071114
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180816
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19990517
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19990517
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190614
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19941102
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050621
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060605
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190531
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20050621
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060605
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180718
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150629
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180816
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050621
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060605
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20211109
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090623
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19941102
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20061109
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160421
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180711
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180718
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20080625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090612

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150629
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180323
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20140508
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20140519
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	19930916
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19940129
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20030724
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030820
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19970616
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19980113
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150820
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20030724
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030820
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180323
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20130904
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180406
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180406
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180718
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20080625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090612
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20140508
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20140519
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180406
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180712
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180406
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20111213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20121217
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190531

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100224
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150702
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090611
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20130904
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	19980629
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19981015
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20101028
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20110128
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040602
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040609
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160503
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19991206
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19991213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20111213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20121217
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20140612
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20211109
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20220201
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180816
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180712
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100222
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20100722
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20101028
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20110128
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190910
Evaluation Responsible Agency:	EPA
Found Violation:	Undetermined
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	SYLIN
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19950829
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20120531
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	BCOFE
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160421
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19970616
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19980113
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090826
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190614
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160503
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20080625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090612
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20060922
Evaluation Responsible Agency:	EPA Contractor/Grantee
Found Violation:	Undetermined
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	KSAVA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150629
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19910711
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911105
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20080625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090612
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150904
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190531
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930916
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940204
Scheduled Compliance Date:	19940129
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170407
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150811
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170407
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180816
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190531
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	19951117
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150904
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180816
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190531
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150629
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	19980629
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19981015
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160824
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20151004
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170907
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150629
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150820
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090826
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040602
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040609
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20101028
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20110128
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930916
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001218
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930916
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940204
Scheduled Compliance Date:	19940129
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20151004
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150904
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20120524
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150629
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160824

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100222
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20100722
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20160412
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20160421
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	20070615
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20140127
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20180406
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20210224
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	LLC
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040602
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040609
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19941102
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040602
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040609
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170314
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170907
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190614
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20010213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20010226
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19920225
Evaluation Responsible Agency:	State

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19930121
Scheduled Compliance Date:	19920709
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930916
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940204
Scheduled Compliance Date:	19940129
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090623
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20090826
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20110529
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20110828

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20150625
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20150904
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190315
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190315
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20111213
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20121217
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180712
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Evaluation Date:	19950829
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20001220
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20190614
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20211109
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20220201
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20010423
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

US FIN ASSUR:

Name:	SAFETY-KLEEN OF CALIFORNIA INC
Address:	6880 SMITH AVE
City,State,Zip:	NEWARK, CA
EPA ID:	CAD980887418
County:	Not reported
Mechanism type:	I
Mechanism Type Description:	INSURANCE
Cost estimate:	6000000
Face value:	6000000
Effective date:	2010-10-01 00:00:00
Provider:	CHARTIS SPECIALTY INS. COMP.
EPA region:	9

Name:	SAFETY-KLEEN OF CALIFORNIA INC
Address:	6880 SMITH AVE
City,State,Zip:	NEWARK, CA
EPA ID:	CAD980887418
County:	Not reported
Mechanism type:	I
Mechanism Type Description:	INSURANCE
Cost estimate:	6000000
Face value:	8000000
Effective date:	2015-11-01 00:00:00
Provider:	INDIAN HARBOR INS. CO
EPA region:	9

Name:	SAFETY-KLEEN OF CALIFORNIA INC
Address:	6880 SMITH AVE
City,State,Zip:	NEWARK, CA
EPA ID:	CAD980887418
County:	Not reported
Mechanism type:	P
Mechanism Type Description:	TRUST FUND (PAY-IN-TRUST)
Cost estimate:	411999
Face value:	2728796.77
Effective date:	2006-12-18 00:00:00
Provider:	WELLS FARGO
EPA region:	9

Name:	SAFETY-KLEEN OF CALIFORNIA INC
Address:	6880 SMITH AVE
City,State,Zip:	NEWARK, CA
EPA ID:	CAD980887418
County:	Not reported
Mechanism type:	I
Mechanism Type Description:	INSURANCE
Cost estimate:	2000000
Face value:	8000000
Effective date:	2015-11-01 00:00:00
Provider:	INDIAN HARBOR INS. CO
EPA region:	9

Name:	SAFETY-KLEEN OF CALIFORNIA INC
Address:	6880 SMITH AVE
City,State,Zip:	NEWARK, CA
EPA ID:	CAD980887418

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

County: Not reported
Mechanism type: I
Mechanism Type Description: INSURANCE
Cost estimate: 1520286
Face value: 2576623
Effective date: 2015-11-17 00:00:00
Provider: INDIAN HARBOR INS. CO
EPA region: 9

Name: SAFETY-KLEEN OF CALIFORNIA INC
Address: 6880 SMITH AVE
City,State,Zip: NEWARK, CA
EPA ID: CAD980887418
County: Not reported
Mechanism type: I
Mechanism Type Description: INSURANCE
Cost estimate: 8000000
Face value: 2000000
Effective date: 2009-10-01 00:00:00
Provider: AISLIC
EPA region: 9

2020 COR ACTION:
EPA ID: CAD980887418
Region: 9
Action: Remedy Construction

TSCA:
No Details: No Details

ICIS:
Enforcement Action ID: 09-2015-1008
FRS ID: 110059732963
Action Name: Safety-Kleen, Inc
Facility Name: SAFETY-KLEEN OF CALIFORNIA, INC.
Facility Address: 6880 SMITH AVE.
NEWARK, CA 94560
Enforcement Action Type: CWA 311B6B2 AO For Class II Penalty
Facility County: ALAMEDA
Program System Acronym: ICIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 311B6B2
Facility SIC Code: 2992
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 37.52179
Longitude in Decimal Degrees: -122.02111
Permit Type Desc: Not reported
Program System Acronym: 3400107015
Facility NAICS Code: 324191
Tribal Land Code: Not reported

FINDS:
Registry ID: 110059732963

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Click Here:

Environmental Interest/Information System:
TSCA SUBMITTER
HAZARDOUS WASTE BIENNIAL REPORTER
STATE MASTER
ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000357880
Registry ID:	110059732963
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110059732963
Name:	SAFETY-KLEEN OF CALIFORNIA, INC.
Address:	6880 SMITH AVE.
City,State,Zip:	NEWARK, CA 94560

ICE:

Envirostor ID:	3000092
Name:	SAFETY-KLEEN OF CALIFORNIA INC
Address:	6880 SMITH AVE
City,State,Zip:	NEWARK, CA 94560
EPA ID:	CAD980887418
Site Type:	INSPECTION
Facility Status:	Significant Non-Complier

Enforcement:

Action Type:	Consent Order with Enforcement and Settlement - Federal CA/FO (385)
Action Date:	12/17/2012
Action Type:	Consent Order with Enforcement and Settlement - Federal CA/FO (385)
Action Date:	06/05/2006
Action Type:	Consent Order with Enforcement and Settlement - Federal CA/FO (385)
Action Date:	10/05/2010
Action Type:	Final Administrative Settlement (310)
Action Date:	03/07/2002
Action Type:	Consent Order with Enforcement and Settlement - Federal CA/FO (385)
Action Date:	07/21/2011

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Action Type: Consent Order with Enforcement and Settlement - Federal CA/FO (385)
Action Date: 02/11/2010

Action Type: Final Civil / Judicial Action (610)
Action Date: 12/18/2000

Action Type: Consent Order with Enforcement and Settlement - Federal CA/FO (385)
Action Date: 06/24/2008

Action Type: Enforcement Order Issued (210)
Action Date: 12/13/2001

Action Type: Consent Order with Enforcement and Settlement - Federal CA/FO (385)
Action Date: 06/12/2009

Inspection:
Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 11/09/2021
Violation Class: No Violations
RTC Date: Not reported

Action Type: Focused Compliance Inspection - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 11/09/2021
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 04/19/2019
Violation Class: Class 1, Class 2, Minor
RTC Date: Not reported

Action Type: Financial Records Review - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 07/11/2018
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 04/25/2019
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 06/19/2018
Violation Class: Class 1, Class 2, Minor
RTC Date: 08/16/2018

Action Type: Financial Records Review - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 09/15/2015
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 03/14/2017
Violation Class: Class 1, Class 2, Minor
RTC Date: 04/06/2018

Action Type: Financial Records Review - Treatment, Storage and Disposal

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Action Date: 05/02/2016
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 04/12/2016
Violation Class: Class 2, Minor
RTC Date: 08/24/2016

Action Type: Financial Records Review - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 06/12/2014
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 06/25/2015
Violation Class: Class 2, Minor
RTC Date: 10/04/2015

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 05/08/2014
Violation Class: Minor
RTC Date: 05/19/2014

Action Type: Financial Records Review - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 10/24/2013
Violation Class: No Violations
RTC Date: Not reported

Action Type: Focused Compliance Inspection - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 01/13/2014
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 06/25/2013
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 06/28/2004
Violation Class: No Violations
RTC Date: Not reported

Action Type: Non-financial Record Review - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 03/15/2019
Violation Class: Class 2
RTC Date: 03/15/2019

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 04/23/2001
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/25/2008
Violation Class: Class 1, Class 2

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

RTC Date: 06/12/2009

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 06/29/2005
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 12/13/2011
Violation Class: Class 2
RTC Date: 12/17/2012

Action Type: Focused Compliance Inspection - Treatment, Storage and Disposal - Used Oil Recycler
Action Date: 05/24/2012
Violation Class: No Violations
RTC Date: Not reported

Action Type: Focused Compliance Inspection - Treatment, Storage and Disposal
Action Date: 05/29/2011
Violation Class: Class 2
RTC Date: 08/28/2011

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 02/24/2010
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 02/22/2010
Violation Class: Class 2
RTC Date: 07/22/2010

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 06/15/2007
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 06/18/2008
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 04/24/2003
Violation Class: No Violations
RTC Date: Not reported

Action Type: Follow-up Inspection - Treatment, Storage and Disposal
Action Date: 06/26/2001
Violation Class: Minor
RTC Date: 07/26/2001

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 10/26/2010
Violation Class: No Violations
RTC Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 10/28/2010
Violation Class: Class 2
RTC Date: 01/28/2011

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/23/2009
Violation Class: Class 1, Class 2
RTC Date: 08/26/2009

Action Type: Compliance Evaluation Inspection - * USED OIL
Action Date: 09/16/1993
Violation Class: Class 1
RTC Date: 12/18/2000

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/13/2007
Violation Class: Class 2
RTC Date: 11/14/2007

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/21/2005
Violation Class: Class 2
RTC Date: 06/05/2006

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 07/24/2003
Violation Class: Class 2
RTC Date: 08/20/2003

Action Type: Compliance Evaluation Inspection - Transporter
Action Date: 05/17/1999
Violation Class: Minor
RTC Date: 05/17/1999

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 11/09/2006
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 10/14/1999
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/02/2004
Violation Class: Class 2, Minor
RTC Date: 06/09/2004

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 06/11/2009
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 12/06/1999

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Violation Class: Class 2
RTC Date: 12/13/1999

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/27/2006
Violation Class: Minor
RTC Date: 08/07/2006

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 02/13/2001
Violation Class: Class 2, Minor
RTC Date: 02/26/2001

HWP:
EPA ID: CAD980887418
Name: SAFETY-KLEEN OF CALIFORNIA INC
Address: 6880 SMITH AVE
Cleanup Status: OPERATING PERMIT
Latitude: 37.52087
Longitude: -122.0202
Facility Type: Permitted - Operating
Facility Size: Large Treatment
Supervisor: TARYN STOKELL BUCK
Site Code: 200253
Senate District: 10
Assembly District: 25
Public Information Officer: Not reported
Commercial Offsite Facility Types: Solvent Recovery, Treatment Facilities, Used Oil / Antifreeze
Quarterly Update: QUARTERLY UPDATE: Quarterly Update Period: July through September 2021 DTSC issued a Technical Completeness Determination Letter on July 9, 2021 to Safety Kleen Newark on their RCRA Permit Renewal Application and determined to be technical complete. A public comment period was held from July 13 2021 through August 30, 2021 on the draft Permit. No comments were received during the comment period. DTSC issued a RCRA-Equivalent Renewal Permit on September 3, 2021 which authorized Safety Kleen Newark to continue their treatment and storage operations in tanks and containers. The Permit is effective on September 3, 2021 and expires on September 2, 2031. DTSC also filed a Notice of Determination with the Governor's Office of Planning Research State Clearinghouse for the Addendum Negative Declaration. FACILITY DESCRIPTION/ HISTORY Evergreen Oil, Inc. (EOI) is located at 6880 Smith Avenue, Newark, Alameda County on a 7-acre site zoned MG (General Industrial) within an urbanized area surrounded by industrial sites. The EOI facility was built in 1985 on a previously undeveloped parcel. The facility stores and treats hazardous waste in tanks and containers including used oil, RCRA and non-RCRA oily waste waters, waste antifreeze, RCRA fuel and contaminated petroleum products. EOI is now called Safety-Kleen of California, Inc. PERMITTING REGULATORY DESCRIPTION/ HISTORY State Hazardous Waste Permit was issued on October 10, 1985 to store and recycle used oil and for storage and transfer of antifreeze. A Class 3 Permit Modification was issued on May 9, 2002. The facility is authorized to store and treat hazardous waste in tanks and containers including used oil, RCRA and non RCRA oily waste waters, waste antifreeze, RCRA fuel and contaminated petroleum products. The RCRA permit was issued on 12/01/04. The permit decision was appealed on January 4, 2005. On September 21, 2005, DTSC

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

approved Evergreen s revised Work plan dated August 8, 2005 for Site Investigation/Geoprobe Sampling, Resource Conservation and Recovery Act (RCRA)

Project Manager Lead: HENRY CHUI
Project Manager: HENRY CHUI
Permit Type: RCRA
Permit Effective Date: 09/03/2021 (OP),
Permit Expiration Date: 09/02/2031 (OP),
Calenviroscreen Score: 76-80%
Total Planned Hours: Not reported
Total Planned Amount: Not reported
Total Actual Hours: 0

Activities:

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: Renewal - No Changes
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 2021-09-03 00:00:00
Type: RCRA
Title Description: Safety-Kleen of California, Inc. - Permit Renewal
Due Date: 09/15/2021
Comments: Notice of Determination
Unit Names: Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description: Renewal - No Changes - CEQA DETERMINATION
Actual Date: 09/03/2021

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: Renewal - No Changes
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 2021-09-03 00:00:00
Type: RCRA
Title Description: Safety-Kleen of California, Inc. - Permit Renewal
Due Date: 10/15/2020
Comments: Environmental Document Assessment. OPEA contractor project. SK submitted updated Initial Study in December 2015.
Unit Names: Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description: Renewal - No Changes - DRAFT CEQA
Actual Date: 05/10/2021

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	PC Mod Class 2
Permit Being Renewed:	Not reported
Permit Being Modified:	*Mod Class 1* - Prior Approval Required
Final Date:	2019-03-10 00:00:00
Type:	RCRA
Title Description:	Ammonia Stripping Unit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Not reported
Event Description:	PC Mod Class 2 - PUBLIC NOTICE TO MAILING LIST BY PERMITTEE
Actual Date:	02/14/2020

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Mod Class 2
Permit Being Renewed:	Not reported
Permit Being Modified:	*Mod Class 1* - Prior Approval Required
Final Date:	2019-03-10 00:00:00
Type:	RCRA
Title Description:	Ammonia Stripping Unit
Due Date:	Not reported
Comments:	The modification request has been withdrawal and the modification will be included with the Permit Renewal.
Unit Names:	Wastewater treatment, WWTP, #20 (GPRA Unit)
Event Description:	Mod Class 2 - FINAL PERMIT MODIFICATION - WITHDRAWAL REQUEST RECEIVED
Actual Date:	03/01/2019

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit),

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description: Renewal - No Changes - APPLICATION PART A RECEIVED
Actual Date: 06/27/2014

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: *Mod Class 2 - 2 or More Units
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 2013-08-22 00:00:00
Type: RCRA
Title Description: Pump and Pumping Areas Mods
Due Date: 03/30/2011
Comments: Modification denied. Some of the information was accepted as it was in response to a letter from our enforcement branch
Unit Names: Not reported
Event Description: *Mod Class 2 - 2 or More Units - INITIAL ADMINISTRATIVE REVIEW COMPLETED
Actual Date: 08/22/2013

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: New Operating Permit
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 2004-12-01 00:00:00
Type: RCRA
Title Description: Operating Permit
Due Date: Not reported
Comments: Not reported
Unit Names: Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description: New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date: 01/05/2015

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: *Mod Class 1* - Prior Approval Required
Permit Being Renewed: Not reported
Permit Being Modified: New Operating Permit

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Final Date:	2014-09-22 00:00:00
Type:	RCRA
Title Description:	Name Change for Evergreen Oil, Inc
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Not reported
Event Description:	*Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date:	09/22/2014
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	Renewal - No Changes - PUBLIC NOTICE - PERMIT RECEIVED
Actual Date:	05/06/2016
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	09/30/2016
Comments:	Hand delivered, October 31, 2016
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	Renewal - No Changes - RESPONSE TO 1ST NOD RECEIVED
Actual Date:	10/31/2016
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	08/08/2016
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	Renewal - No Changes - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date:	08/05/2016

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	09/15/2021
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	Renewal - No Changes - FINAL PERMIT RENEWAL
Actual Date:	09/03/2021

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description: Renewal - No Changes - PUBLIC COMMENT (END)
Actual Date: 08/30/2021

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: Operating with PC Mod Class 2
Permit Being Renewed: Not reported
Permit Being Modified: *Mod Class 1* - Prior Approval Required
Final Date: 2019-03-10 00:00:00
Type: RCRA
Title Description: Ammonia Stripping Unit
Due Date: Not reported
Comments: The modification request has been withdrawal and the modification will be included with the Permit Renewal.
Unit Names: Wastewater treatment, WWTP, #20 (GPRA Unit)
Event Description: Operating with PC Mod Class 2 - FINAL PERMIT MODIFICATION - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date: 03/10/2019

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: Renewal - No Changes
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 2021-09-03 00:00:00
Type: RCRA
Title Description: Safety-Kleen of California, Inc. - Permit Renewal
Due Date: 11/15/2020
Comments: Not reported
Unit Names: Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description: Renewal - No Changes - TECHNICAL COMPLETE LETTER
Actual Date: 07/09/2021

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: New Operating Permit
Permit Being Renewed: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Permit Being Modified:	Not reported
Final Date:	2004-12-01 00:00:00
Type:	RCRA
Title Description:	Operating Permit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT
Actual Date:	12/01/2004
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Operating with PC Mod Class 2
Permit Being Renewed:	Not reported
Permit Being Modified:	*Mod Class 1* - Prior Approval Required
Final Date:	2019-03-10 00:00:00
Type:	RCRA
Title Description:	Ammonia Stripping Unit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Wastewater treatment, WWTP, #20 (GPRA Unit)
Event Description:	Operating with PC Mod Class 2 - PUBLIC NOTICE TO MAILING LIST BY PERMITTEE
Actual Date:	02/14/2020
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2004-12-01 00:00:00
Type:	RCRA
Title Description:	Operating Permit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	New Operating Permit - PUBLIC COMMENT (BEGIN)
Actual Date:	05/28/2004
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	*Mod Class 1* - Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	New Operating Permit
Final Date:	2014-09-22 00:00:00
Type:	RCRA
Title Description:	Name Change for Evergreen Oil, Inc
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Not reported
Event Description:	*Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION (EXPIRES)
Actual Date:	01/05/2015

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	*Mod Class 1* - Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	New Operating Permit
Final Date:	2014-09-22 00:00:00
Type:	RCRA
Title Description:	Name Change for Evergreen Oil, Inc
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Not reported
Event Description:	*Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION (EFFECTIVE)
Actual Date:	09/22/2014

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2004-12-01 00:00:00
Type:	RCRA
Title Description:	Operating Permit
Due Date:	Not reported
Comments:	THE FACILITY HAS BEEN REVISING THE PART B APPLICATIONS SINCE 1988. A STATE ONLY PERMIT MOD - CLASS III WAS ISSUED ON MAY 9, 2002 FOR THE ORIGINAL STATE PERMIT DATED OCTOBER 10, 1985.
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

	Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	New Operating Permit - APPLICATION PART B RECEIVED
Actual Date:	06/20/2003
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	Renewal - No Changes - FINAL PERMIT RENEWAL (EXPIRES)
Actual Date:	09/02/2031
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	11/01/2018
Comments:	Sent via mail and email
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	Renewal - No Changes - 2ND NOTICE OF DEFICIENCY ISSUED
Actual Date:	04/03/2019
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Operating with PC Mod Class 2

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Permit Being Renewed:	Not reported
Permit Being Modified:	*Mod Class 1* - Prior Approval Required
Final Date:	2019-03-10 00:00:00
Type:	RCRA
Title Description:	Ammonia Stripping Unit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Wastewater treatment, WWTP, #20 (GPRA Unit)
Event Description:	Operating with PC Mod Class 2 - PUBLIC NOTICE TO NEWSPAPER BY PERMITTEE
Actual Date:	02/22/2020

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	10/30/2020
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	Renewal - No Changes - TECHNICAL REVIEW COMPLETED
Actual Date:	07/09/2021

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	PC Mod Class 2
Permit Being Renewed:	Not reported
Permit Being Modified:	*Mod Class 1* - Prior Approval Required
Final Date:	2019-03-10 00:00:00
Type:	RCRA
Title Description:	Ammonia Stripping Unit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Not reported
Event Description:	PC Mod Class 2 - PUBLIC NOTICE TO NEWSPAPER BY PERMITTEE
Actual Date:	02/22/2020

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Mod Class 2
Permit Being Renewed:	Not reported
Permit Being Modified:	*Mod Class 1* - Prior Approval Required
Final Date:	2019-03-10 00:00:00
Type:	RCRA
Title Description:	Ammonia Stripping Unit
Due Date:	Not reported
Comments:	The modification request has been withdrawal and the modification will be included with the Permit Renewal.
Unit Names:	Wastewater treatment, WWTP, #20 (GPRA Unit)
Event Description:	Mod Class 2 - FINAL PERMIT MODIFICATION - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date:	03/10/2019

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	08/04/2021
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	Renewal - No Changes - DRAFT PERMIT RENEWAL
Actual Date:	07/09/2021

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2004-12-01 00:00:00
Type:	RCRA
Title Description:	Operating Permit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit),

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description: New Operating Permit - PUBLIC COMMENT (END)
Actual Date: 07/12/2004

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: *Mod Class 1* - Prior Approval Required
Permit Being Renewed: Not reported
Permit Being Modified: New Operating Permit
Final Date: 2005-10-13 00:00:00
Type: RCRA
Title Description: Class 1 Mod, Prior Approval Required
Due Date: Not reported
Comments: Not reported
Unit Names: Not reported
Event Description: *Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date: 10/13/2005

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: *Mod Class 1* - Prior Approval Required
Permit Being Renewed: Not reported
Permit Being Modified: New Operating Permit
Final Date: 2015-04-23 00:00:00
Type: RCRA
Title Description: Addition of Waste Codes to Tanks T-505, T-507, T-509; Replacement of Thermal Oxidizer, Expansion of Loading/Unloading Area etc.
Due Date: Not reported
Comments: Not reported
Unit Names: Used Oil Fuel Blend Tanks, #3 (GPRA Unit)
Event Description: *Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date: 04/23/2015

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: *Mod Class 1 - No Prior Approval Required
Permit Being Renewed: Not reported
Permit Being Modified: New Operating Permit
Final Date: 2014-06-30 00:00:00
Type: RCRA
Title Description: Temporary Replacement of Dissolved Air Flotation (DAF) equipment
Due Date: Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Comments:	Not reported
Unit Names:	Wastewater treat Sys-WTS-DAF, #9 (GPRA Unit)
Event Description:	*Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION (EXPIRES)
Actual Date:	01/05/2015
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	07/27/2014
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	Renewal - No Changes - INITIAL ADMINISTRATIVE REVIEW COMPLETED
Actual Date:	08/19/2014
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	Renewal - No Changes - 3RD NOTICE OF DEFICIENCY ISSUED
Actual Date:	03/20/2020
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	Not reported
Comments:	Call-in letter has been issued. On September 27, 2013, Facility has requested an extension to submittal date.
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	Renewal - No Changes - CALL-IN LETTER ISSUED
Actual Date:	06/27/2013
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	08/15/2019
Comments:	SK requested an extension for the revised Application submittal. SK will submit the Permit Renewal Application by August 16, 2019 with the exception of the tank assessments. SK will required additional time to perform the seismic calculations for the ta
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	Renewal - No Changes - RESPONSE TO 2ND NOD RECEIVED
Actual Date:	11/05/2019
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	10/15/2020
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

(GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description: Renewal - No Changes - FINAL PART A & PART B RECEIVED
Actual Date: 07/05/2021

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: Mod Class 1* - Prior Approval Required
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 2018-03-15 00:00:00
Type: RCRA
Title Description: Request for Class 1* Modification
Due Date: Not reported
Comments: Not reported
Unit Names: Wastewater treatment, WWTP, #20 (GPRA Unit)
Event Description: Mod Class 1* - Prior Approval Required - RESPONSE TO 1ST REQUEST FOR FUTHER INFORMATION RECEIVED
Actual Date: 08/14/2017

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: PC Mod Class 2
Permit Being Renewed: Not reported
Permit Being Modified: *Mod Class 1* - Prior Approval Required
Final Date: 2019-03-10 00:00:00
Type: RCRA
Title Description: Ammonia Stripping Unit
Due Date: Not reported
Comments: The modification request has been withdrawal and the modification will be included with the Permit Renewal.
Unit Names: Not reported
Event Description: PC Mod Class 2 - FINAL PERMIT MODIFICATION - WITHDRAWAL REQUEST RECEIVED
Actual Date: 03/01/2019

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: *Mod Class 1* - Prior Approval Required
Permit Being Renewed: Not reported
Permit Being Modified: New Operating Permit

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Final Date:	2015-04-24 00:00:00
Type:	RCRA
Title Description:	Replacement in-kind SE-2203, SE-2205, SE-2201, SE-2209, SE-2210
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Wastewater treatment, WWTP, #20 (GPRA Unit)
Event Description:	*Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date:	04/24/2015
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	*Mod Class 2 - 2 or More Units
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2013-08-22 00:00:00
Type:	RCRA
Title Description:	Pump and Pumping Areas Mods
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Not reported
Event Description:	*Mod Class 2 - 2 or More Units - FINAL PERMIT MODIFICATION
Actual Date:	08/22/2013
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Mod Class 1 - No Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2018-02-09 00:00:00
Type:	RCRA
Title Description:	Class 1 Mod Request for Addition of D001 Waste Code to PUD16
Due Date:	Not reported
Comments:	Not reported
Unit Names:	RailCar Loading/Unloading St1, #16 (GPRA Unit)
Event Description:	Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION - WITHDRAWAL REQUEST RECEIVED
Actual Date:	01/15/2018
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Mod Class 1 - No Prior Approval Required
Permit Being Renewed:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Permit Being Modified:	Not reported
Final Date:	2018-02-09 00:00:00
Type:	RCRA
Title Description:	Class 1 Mod Request for Addition of D001 Waste Code to PUD16
Due Date:	Not reported
Comments:	Not reported
Unit Names:	RailCar Loading/Unloading St1, #16 (GPRA Unit)
Event Description:	Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date:	02/09/2018
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	Renewal - No Changes - TECHNICAL REVIEW BEGIN
Actual Date:	05/06/2016
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Mod Class 1* - Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2018-03-15 00:00:00
Type:	RCRA
Title Description:	Request for Class 1* Modification
Due Date:	Not reported
Comments:	Permit modification withdrawn. Safety Kleen decided to include the modification with the Permit Renewal.
Unit Names:	Wastewater treatment, WWTP, #20 (GPRA Unit)
Event Description:	Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION - WITHDRAWAL REQUEST RECEIVED
Actual Date:	03/01/2018
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Mod Class 2
Permit Being Renewed:	Not reported
Permit Being Modified:	*Mod Class 1* - Prior Approval Required
Final Date:	2019-03-10 00:00:00
Type:	RCRA
Title Description:	Ammonia Stripping Unit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Wastewater treatment, WWTP, #20 (GPRA Unit)
Event Description:	Mod Class 2 - PUBLIC NOTICE TO NEWSPAPER BY PERMITTEE
Actual Date:	02/22/2020

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	*Mod Class 1 - No Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	New Operating Permit
Final Date:	2014-06-30 00:00:00
Type:	RCRA
Title Description:	Temporary Replacement of Dissolved Air Flotation (DAF) equipment
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Wastewater treat Sys-WTS-DAF, #9 (GPRA Unit)
Event Description:	*Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date:	06/30/2014

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	*Mod Class 1 - No Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	New Operating Permit
Final Date:	2014-06-30 00:00:00
Type:	RCRA
Title Description:	Temporary Replacement of Dissolved Air Flotation (DAF) equipment
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Wastewater treat Sys-WTS-DAF, #9 (GPRA Unit)
Event Description:	*Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION (EFFECTIVE)
Actual Date:	06/30/2014

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Mod Class 1* - Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2018-03-15 00:00:00
Type:	RCRA
Title Description:	Request for Class 1* Modification
Due Date:	07/21/2017
Comments:	Not reported
Unit Names:	Wastewater treatment, WWTP, #20 (GPRA Unit)
Event Description:	Mod Class 1* - Prior Approval Required - 1ST REQUEST FOR FURTHER INFORMATION
Actual Date:	07/20/2017

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	09/15/2021
Comments:	Addendum to Previously Adopted Negative Declaration
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	Renewal - No Changes - FINAL CEQA
Actual Date:	08/17/2021

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	01/15/2021
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

	Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	Renewal - No Changes - PUBLIC COMMENT (BEGIN)
Actual Date:	07/13/2021
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Mod Class 1 - No Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	New Operating Permit
Final Date:	2018-03-05 00:00:00
Type:	RCRA
Title Description:	Modification Request to Transfer Certified Oil Phase from Tank T500 to Tank T503B
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Used Oil Rec& Str Tnks,TankFarm, #1 (GPRA Unit)
Event Description:	Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date:	03/05/2018
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2004-12-01 00:00:00
Type:	RCRA
Title Description:	Operating Permit
Due Date:	Not reported
Comments:	THE PERMIT APPEAL WAS CONCERNING PART VI (CORRECTIVE ACTION) OF THE PERMIT. PERMIT APPEAL WAS DATED ON 01/04/05.
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	New Operating Permit - DRAFT PERMIT
Actual Date:	05/28/2004
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	PC Mod Class 2
Permit Being Renewed:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Permit Being Modified:	*Mod Class 1* - Prior Approval Required
Final Date:	2019-03-10 00:00:00
Type:	RCRA
Title Description:	Ammonia Stripping Unit
Due Date:	Not reported
Comments:	The modification request has been withdrawal and the modification will be included with the Permit Renewal.
Unit Names:	Not reported
Event Description:	PC Mod Class 2 - FINAL PERMIT MODIFICATION - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date:	03/10/2019
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2004-12-01 00:00:00
Type:	RCRA
Title Description:	Operating Permit
Due Date:	Not reported
Comments:	Revised Part A Application (updated contact information and facility name change)
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PART A & PART B RECEIVED
Actual Date:	05/26/2004
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2004-12-01 00:00:00
Type:	RCRA
Title Description:	Operating Permit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date:	01/05/2005

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2021-09-03 00:00:00
Type:	RCRA
Title Description:	Safety-Kleen of California, Inc. - Permit Renewal
Due Date:	07/01/2014
Comments:	Hand delivered, dated June 30, 2014
Unit Names:	Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description:	Renewal - No Changes - APPLICATION PART B RECEIVED
Actual Date:	06/27/2014

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Mod Class 1* - Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2018-03-15 00:00:00
Type:	RCRA
Title Description:	Request for Class 1* Modification
Due Date:	07/21/2017
Comments:	Not reported
Unit Names:	Wastewater treatment, WWTP, #20 (GPRA Unit)
Event Description:	Mod Class 1* - Prior Approval Required - ACKNOWLEDGEMENT OF PERMIT MOD LETTER
Actual Date:	07/20/2017

EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Activity Type:	Mod Class 1* - Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2018-03-15 00:00:00
Type:	RCRA
Title Description:	Request for Class 1* Modification
Due Date:	Not reported
Comments:	Permit modification withdrawn. Safety Kleen decided to include the

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

modification with the Permit Renewal.
Unit Names: Wastewater treatment, WWTP, #20 (GPRA Unit)
Event Description: Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date: 03/15/2018

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: Operating with PC Mod Class 2
Permit Being Renewed: Not reported
Permit Being Modified: *Mod Class 1* - Prior Approval Required
Final Date: 2019-03-10 00:00:00
Type: RCRA
Title Description: Ammonia Stripping Unit
Due Date: Not reported
Comments: The modification request has been withdrawal and the modification will be included with the Permit Renewal.
Unit Names: Wastewater treatment, WWTP, #20 (GPRA Unit)
Event Description: Operating with PC Mod Class 2 - FINAL PERMIT MODIFICATION - WITHDRAWAL REQUEST RECEIVED
Actual Date: 03/01/2019

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: *Mod Class 2 - 2 or More Units
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 2013-08-22 00:00:00
Type: RCRA
Title Description: Pump and Pumping Areas Mods
Due Date: 04/30/2013
Comments: Revised application was received in 2/28/2011 but Evergreen has not public noticed.
Unit Names: Not reported
Event Description: *Mod Class 2 - 2 or More Units - APPLICATION PART B RECEIVED
Actual Date: 02/28/2011

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: Mod Class 2
Permit Being Renewed: Not reported
Permit Being Modified: *Mod Class 1* - Prior Approval Required

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Final Date: 2019-03-10 00:00:00
Type: RCRA
Title Description: Ammonia Stripping Unit
Due Date: Not reported
Comments: Not reported
Unit Names: Wastewater treatment, WWTP, #20 (GPRA Unit)
Event Description: Mod Class 2 - PUBLIC NOTICE TO MAILING LIST BY PERMITTEE
Actual Date: 02/14/2020

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: Renewal - No Changes
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 2021-09-03 00:00:00
Type: RCRA
Title Description: Safety-Kleen of California, Inc. - Permit Renewal
Due Date: Not reported
Comments: Not reported
Unit Names: Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description: Renewal - No Changes - RESPONSE TO 3RD NOD RECEIVED
Actual Date: 06/01/2020

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Activity Type: Renewal - No Changes
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 2021-09-03 00:00:00
Type: RCRA
Title Description: Safety-Kleen of California, Inc. - Permit Renewal
Due Date: Not reported
Comments: Not reported
Unit Names: Drum Con Pad & Rolloff Bin Str-#22 (GPRA Unit), Drum Crusher, Unit 23 (GPRA Unit), Drum Storage Area-Pad 2, #14 (GPRA Unit), Drum Storage Area-Pad 3, # 15 (GPRA Unit), Drum Storage-Pad 1, # 13 (GPRA Unit), East Loading/Unloading Area, Unit 10 (GPRA Unit)
Event Description: Renewal - No Changes - FINAL PERMIT RENEWAL (EFFECTIVE)
Actual Date: 09/03/2021

Closure:
EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Size: Large Treatment
Facility Status: OPERATING PERMIT
Activity Type: Closure
Final Date: Not reported
Type: RCRA
Title Description: Partial Closure Request - DAF Unit
Due Date: Not reported
Comments: Not reported
Unit Names: Wastewater treat Sys-WTS-DAF, #9 (GPRA Unit)
Event Description: Closure - 2ND NOTICE OF DEFICIENCY ISSUED
Actual Date: 02/21/2018

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Size: Large Treatment
Facility Status: OPERATING PERMIT
Activity Type: Closure
Final Date: Not reported
Type: RCRA
Title Description: Partial Closure Request - DAF Unit
Due Date: Not reported
Comments: Not reported
Unit Names: Wastewater treat Sys-WTS-DAF, #9 (GPRA Unit)
Event Description: Closure - RESPONSE TO 2ND NOD RECEIVED
Actual Date: 04/23/2018

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Size: Large Treatment
Facility Status: OPERATING PERMIT
Activity Type: Closure
Final Date: Not reported
Type: RCRA
Title Description: Partial Closure Request - DAF Unit
Due Date: Not reported
Comments: Not reported
Unit Names: Wastewater treat Sys-WTS-DAF, #9 (GPRA Unit)
Event Description: Closure - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 02/02/2018

Maint:
EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Title: Name Change for Evergreen Oil, Inc. facilities and Evergreen Environmental Services Carson

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Document Type:	Letter from Facility
Receive Date:	01/13/2014
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Due Date:	Not reported
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Title:	Temporary Unit to be added to Wastewater Treatment Process
Document Type:	Letter from Facility
Receive Date:	03/09/2014
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Due Date:	Not reported
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Title:	Permit modification for Evergreen Oil, Inc. (Name Change in the Database)
Document Type:	Respond to Facility Inquiries
Receive Date:	09/22/2014
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Due Date:	Not reported
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Title:	Tank T-800 Overflow
Document Type:	Letter from Facility
Receive Date:	11/25/2013
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Due Date:	Not reported
EPA ID:	CAD980887418
Facility Type:	Permitted - Operating
Facility Name:	SAFETY-KLEEN OF CALIFORNIA INC
Title:	Roll-off Reaction/Fire
Document Type:	Investigation Report
Receive Date:	10/08/2013
Project Manager:	HENRY CHUI
Project Manager Lead:	HENRY CHUI
Supervisor:	TARYN STOKELL BUCK
Facility Status:	OPERATING PERMIT
Due Date:	Not reported

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Title: Gas Release - Flare Seal Drum Malfunction
Document Type: Letter from Facility
Receive Date: 12/01/2013
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Due Date: Not reported

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Title: Tank T-800 Overflow
Document Type: Letter from Facility
Receive Date: 10/13/2013
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Due Date: Not reported

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Title: Permit Call-In to Review the RCRA Hazardous Waste Facility Permit
Document Type: Letter from Facility
Receive Date: 10/02/2013
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Due Date: Not reported

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Title: Submittal Class 1 Permit Modification and Notification of Partial Closure Activities
Document Type: Letter from Facility
Receive Date: 02/05/2014
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Due Date: Not reported

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Title: Temporary Replacement of WWT Unit
Document Type: Respond to Facility Inquiries
Receive Date: 04/29/2014
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI

SAFETY-KLEEN OF CALIFORNIA INC (Continued) **1000357880**

Supervisor: TARYN STOKELL BUCK
Facility Status: OPERATING PERMIT
Due Date: Not reported

Alias:
EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Facility Status: OPERATING PERMIT
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Alias Type: FRS
Alias: 110009544868

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Facility Status: OPERATING PERMIT
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Alias Type: Project Code (Site Code)
Alias: 200253

EPA ID: CAD980887418
Facility Type: Permitted - Operating
Facility Name: SAFETY-KLEEN OF CALIFORNIA INC
Facility Status: OPERATING PERMIT
Project Manager: HENRY CHUI
Project Manager Lead: HENRY CHUI
Supervisor: TARYN STOKELL BUCK
Alias Type: APN
Alias: 92-2300-10-3

87
South
1/2-1
0.995 mi.
5255 ft.

OHLONE COMMUNITY COLLEGE DISTRICT SITE **ENVIROSTOR** **S106568163**
CHERRY STREET NEAR MOWRY **VCP** **N/A**
NEWARK, CA 94560 **DEED**

Relative:
Lower

Actual:
19 ft.

ENVIROSTOR:
Name: OHLONE COMMUNITY COLLEGE DISTRICT SITE
Address: CHERRY STREET NEAR MOWRY
City,State,Zip: NEWARK, CA 94560
Facility ID: 1010013
Status: Certified / Operation & Maintenance
Status Date: 04/13/2007
Site Code: 201509
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 81
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Claude Jemison

OHLONE COMMUNITY COLLEGE DISTRICT SITE (Continued) **S106568163**

Supervisor: Cheryl Prowell
Division Branch: Cleanup Berkeley
Assembly: 25
Senate: 10
Special Program: Voluntary Cleanup Program
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.51675
Longitude: -122.0045
APN: 901-0185-13-8, 901-185-13-9
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: Toxaphene
Confirmed COC: Toxaphene
Potential Description: SOIL
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Name: OHLONE COMMUNITY COLLEGE DISTRICT SITE
Address: CHERRY STREET NEAR MOWRY
City,State,Zip: NEWARK, CA 94560
Facility ID: 1010013
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 81
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Claude Jemison
Supervisor: Cheryl Prowell
Division Branch: Cleanup Berkeley
Site Code: 201509
Assembly: 25
Senate: 10
Special Programs Code: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance
Status Date: 04/13/2007

OHLONE COMMUNITY COLLEGE DISTRICT SITE (Continued) **S106568163**

Restricted Use:	YES
Funding:	Responsible Party
Lat/Long:	37.51675 / -122.0045
APN:	901-0185-13-8, 901-185-13-9
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	30023
Confirmed COC:	30023
Potential Description:	SOIL
Alias Name:	Not reported
Alias Type:	Not reported

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

DEED:

Name:	OHLONE COMMUNITY COLLEGE DISTRICT SITE
Address:	CHERRY STREET NEAR MOWRY
City,State,Zip:	NEWARK, CA 94560
Envirostor ID:	1010013
Area:	PROJECT WIDE
Sub Area:	Not reported
Site Type:	VOLUNTARY CLEANUP
Status:	CERTIFIED / OPERATION & MAINTENANCE
Agency:	Not reported
Covenant Uploaded:	Not reported
Deed Date(s):	03/29/2007
File Name:	Envirostor Land Use Restrictions

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NEWARK	S127999318	CITY OF NEWARK	MOWRY AVE.	94560	SWF/LF, CERS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/29/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 84

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/19/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/19/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/01/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 9

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/22/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/25/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/14/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/25/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/25/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/14/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/25/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/08/2021
Date Data Arrived at EDR: 11/09/2021
Date Made Active in Reports: 01/28/2022
Number of Days to Update: 80

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 12/01/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 03/02/2022
Number of Days to Update: 85
Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/10/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90
Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 02/09/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/25/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/14/2022
Number of Days to Update: 80
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/25/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/15/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/15/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 09/14/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 11/23/2021
Number of Days to Update: 12

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 11/16/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/25/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/14/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/25/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/18/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/12/2022
Number of Days to Update: 85
Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/16/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 12/10/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 03/11/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18
Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 80

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/18/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/12/2022
Number of Days to Update: 85

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/24/2022
Date Data Arrived at EDR: 02/25/2022
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 12

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/16/2022
Number of Days to Update: 78

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/15/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 84

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 09/30/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/12/2022
Number of Days to Update: 85

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 10/26/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 84

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/15/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 12/13/2021
Date Data Arrived at EDR: 12/17/2021
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/01/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/03/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/18/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82
Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/18/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/18/2021
Date Data Arrived at EDR: 10/20/2021
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 82
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19
Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 7
Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35
Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 22
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 64
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/24/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 87
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/04/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 03/28/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/08/2022
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 70

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/03/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/04/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 05/03/2022
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/22/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 3

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/02/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/14/2021
Date Data Arrived at EDR: 12/15/2021
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 85

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/04/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 95

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/11/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/04/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/22/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 78

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/16/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 77

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/27/2021
Date Data Arrived at EDR: 09/01/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Annually

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 11/17/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/07/2022
Number of Days to Update: 81

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 11/29/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 77

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 78

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/18/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/10/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 84

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 03/03/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 10/05/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/18/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/07/2022
Number of Days to Update: 80

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 80

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/15/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/15/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/04/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 11/18/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/17/2022
Number of Days to Update: 79

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 11/09/2021
Date Made Active in Reports: 01/27/2022
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/17/2022
Number of Days to Update: 79

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 11/29/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 74

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/13/2021
Date Data Arrived at EDR: 12/14/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/09/2022
Next Scheduled EDR Contact: 06/26/2022
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 12/03/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/24/2022
Number of Days to Update: 79

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/16/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/18/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/12/2022
Number of Days to Update: 85
Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 78
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55
Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3
Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System
DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 07/13/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 84
Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Varies

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List
The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank
The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 12/28/2021
Date Data Arrived at EDR: 12/28/2021
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 80

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/28/2021
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 11/01/2021
Date Data Arrived at EDR: 11/02/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 83

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/28/2021
Date Data Arrived at EDR: 12/28/2021
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 80

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/17/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 10/22/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 85

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 10/01/2021
Date Data Arrived at EDR: 11/02/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 83

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 12/01/2021
Date Made Active in Reports: 02/16/2022
Number of Days to Update: 77

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/18/2021
Date Data Arrived at EDR: 10/20/2021
Date Made Active in Reports: 01/12/2022
Number of Days to Update: 84

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 11/10/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 02/02/2022
Number of Days to Update: 82

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 11/10/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 02/02/2022
Number of Days to Update: 82

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 03/24/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 80

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/10/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 03/10/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 03/10/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/08/2021
Date Data Arrived at EDR: 10/08/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 82

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/11/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 81

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/23/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 10/13/2021
Date Made Active in Reports: 01/04/2022
Number of Days to Update: 83

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 11

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/14/2021
Number of Days to Update: 89

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/24/2022
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/23/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/24/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 74

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 03/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 03/24/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/26/2021
Date Data Arrived at EDR: 10/27/2021
Date Made Active in Reports: 01/20/2022
Number of Days to Update: 85

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 10/08/2021
Date Data Arrived at EDR: 11/04/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 81

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/08/2021
Date Data Arrived at EDR: 11/02/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 10/29/2021
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/20/2022
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 10/29/2021
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 12/01/2021
Date Data Arrived at EDR: 12/02/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 85

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 09/29/2021
Date Data Arrived at EDR: 09/30/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 09/29/2021
Date Data Arrived at EDR: 09/30/2021
Date Made Active in Reports: 12/15/2021
Number of Days to Update: 76
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 06/18/2021
Date Data Arrived at EDR: 09/28/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 77
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 11/02/2021
Number of Days to Update: 90
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 80
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 12/01/2021
Date Data Arrived at EDR: 12/02/2021
Date Made Active in Reports: 02/17/2022
Number of Days to Update: 77
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 11/30/2021
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/16/2022
Number of Days to Update: 78

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 02/25/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 02/03/2022
Date Data Arrived at EDR: 02/04/2022
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 7

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/10/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 02/02/2022
Number of Days to Update: 83

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/10/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/03/2022
Number of Days to Update: 79

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/11/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/19/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/07/2022
Number of Days to Update: 77

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 02/02/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 01/10/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 11/23/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 74

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/18/2021
Date Data Arrived at EDR: 10/20/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 85

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/29/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 79
Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/23/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/29/2021
Date Data Arrived at EDR: 10/21/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 84
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/29/2021
Date Data Arrived at EDR: 12/07/2021
Date Made Active in Reports: 02/24/2022
Number of Days to Update: 79
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/08/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/27/2021
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 03/18/2022
Number of Days to Update: 73
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/24/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 10/26/2021
Date Data Arrived at EDR: 10/27/2021
Date Made Active in Reports: 01/20/2022
Number of Days to Update: 85

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/11/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 81

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/10/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/14/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

38600 CEDAR BLVD
38600 CEDAR BLVD
NEWARK, CA 94560

TARGET PROPERTY COORDINATES

Latitude (North):	37.532095 - 37ˆ 31' 55.54''
Longitude (West):	122.008076 - 122ˆ 0' 29.07''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	587642.0
UTM Y (Meters):	4154159.8
Elevation:	29 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	12016457 NEWARK, CA
Version Date:	2018
Northeast Map:	12008762 NILES, CA
Version Date:	2018

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

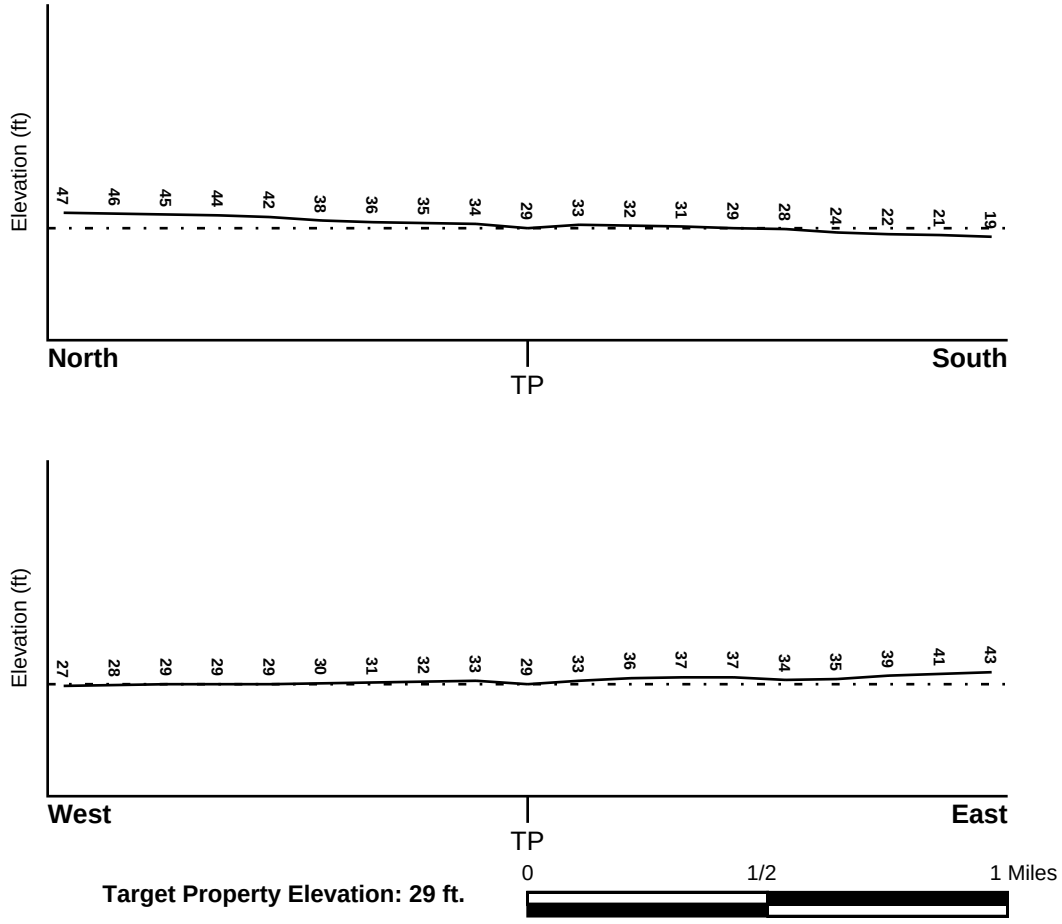
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 29 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06001C0442G	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06001C0461G	FEMA FIRM Flood data
06001C0444G	FEMA FIRM Flood data
06001C0463G	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NEWARK	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
A9	1/8 - 1/4 Mile SSE	SW
12	1/4 - 1/2 Mile SE	NW
C13	1/4 - 1/2 Mile ENE	Not Reported
D55	1/4 - 1/2 Mile ENE	S
89	1/4 - 1/2 Mile WNW	SW
K119	1/2 - 1 Mile ENE	N

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
N149	1/2 - 1 Mile NW	Varies
N153	1/2 - 1 Mile NW	WSW
156	1/2 - 1 Mile SW	SE
184	1/2 - 1 Mile ESE	Not Reported
Q191	1/2 - 1 Mile NNW	S
X215	1/2 - 1 Mile NNE	NW
Y217	1/2 - 1 Mile NW	W
X223	1/2 - 1 Mile NNE	NW
1G	1/2 - 1 Mile NNE	NW
2G	1/2 - 1 Mile NNE	NW
3G	1/2 - 1 Mile NNW	S
4G	1/2 - 1 Mile NW	WSW
5G	1/2 - 1 Mile NW	Varies
6G	1/2 - 1 Mile NW	W
7G	1/2 - 1 Mile ENE	N
8G	1/4 - 1/2 Mile WNW	SW
9G	1/4 - 1/2 Mile ENE	Not Reported
10G	1/4 - 1/2 Mile ENE	S
11G	1/8 - 1/4 Mile SSE	SW
12G	1/4 - 1/2 Mile SE	NW
13G	1/2 - 1 Mile SW	SE
14G	1/2 - 1 Mile ESE	Not Reported

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

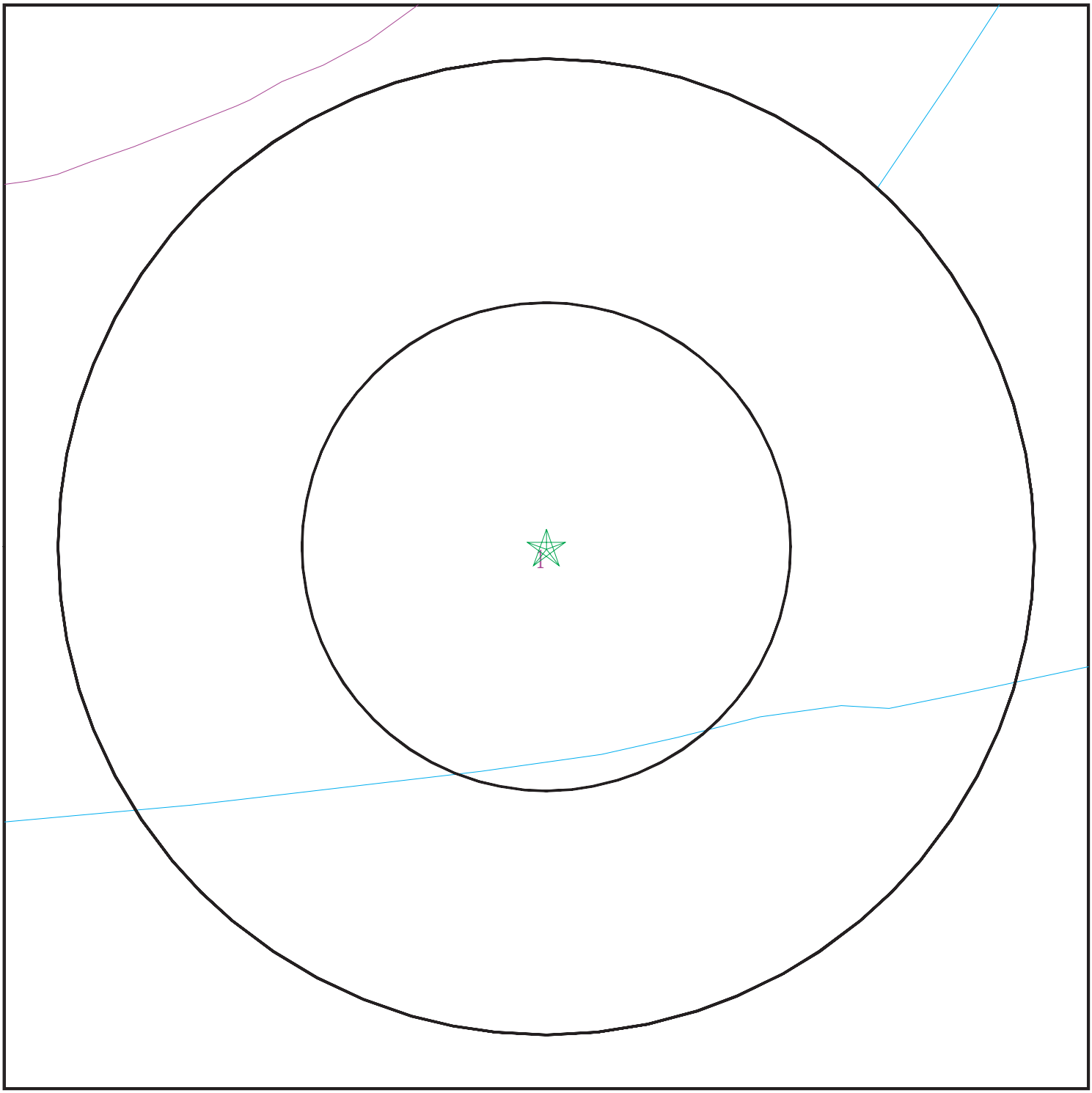
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 06923688.2r



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	38600 Cedar Blvd	CLIENT:	Engeo Inc.
ADDRESS:	38600 Cedar Blvd Newark CA 94560	CONTACT:	Divya Bhargava
LAT/LONG:	37.532095 / 122.008076	INQUIRY#:	06923688.2r
		DATE:	April 01, 2022 3:13 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Danville

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	20 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
2	20 inches	53 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
3	53 inches	79 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B11	USGS40000183594	1/8 - 1/4 Mile SW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	CAEDF0000119983	0 - 1/8 Mile SSE
A2	CAEDF0000132672	0 - 1/8 Mile SE
A3	CAEDF0000089837	0 - 1/8 Mile SE
A4	CAEDF0000104843	0 - 1/8 Mile ESE
A5	CAEDF0000034312	0 - 1/8 Mile SSE
A6	CAEDF0000117569	0 - 1/8 Mile ESE
A7	CAEDF0000094672	0 - 1/8 Mile SE
A8	CAEDF0000033820	0 - 1/8 Mile ESE
B10	CADDW0000021462	1/8 - 1/4 Mile SW
C14	CAEDF0000109791	1/4 - 1/2 Mile ENE
D15	CAEDF0000002743	1/4 - 1/2 Mile East
C16	CAEDF0000136157	1/4 - 1/2 Mile ENE
E17	CAEDF0000066958	1/4 - 1/2 Mile SSE
C18	CAEDF0000117281	1/4 - 1/2 Mile ENE
C19	CAEDF0000138304	1/4 - 1/2 Mile ENE
C20	CAEDF0000032750	1/4 - 1/2 Mile ENE
C21	CAEDF0000053922	1/4 - 1/2 Mile ENE
C22	CAEDF0000126648	1/4 - 1/2 Mile ENE
E23	CAEDF0000046611	1/4 - 1/2 Mile SSE
C24	CAEDF0000113478	1/4 - 1/2 Mile ENE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
E25	CAEDF0000138820	1/4 - 1/2 Mile SSE
E26	CAEDF0000072391	1/4 - 1/2 Mile South
E27	CAEDF0000069926	1/4 - 1/2 Mile SSE
E28	CAEDF0000011096	1/4 - 1/2 Mile SSE
E29	CAEDF0000118759	1/4 - 1/2 Mile SSE
C30	CAEDF0000069142	1/4 - 1/2 Mile ENE
E31	CAEDF0000008897	1/4 - 1/2 Mile SSE
E32	CAEDF0000101074	1/4 - 1/2 Mile SSE
E33	CAEDF0000079633	1/4 - 1/2 Mile SSE
E34	CAEDF0000061894	1/4 - 1/2 Mile South
E35	CAEDF0000068163	1/4 - 1/2 Mile SSE
E36	CAEDF0000040699	1/4 - 1/2 Mile SSE
E37	CAEDF0000136691	1/4 - 1/2 Mile South
C38	CAEDF0000014112	1/4 - 1/2 Mile ENE
C39	CAEDF0000061970	1/4 - 1/2 Mile ENE
E40	CAEDF0000082446	1/4 - 1/2 Mile SSE
E41	CAEDF0000077128	1/4 - 1/2 Mile SSE
D42	CAEDF0000117404	1/4 - 1/2 Mile East
C43	CAEDF0000037641	1/4 - 1/2 Mile ENE
E44	CAEDF0000051029	1/4 - 1/2 Mile South
C45	CAEDF0000060851	1/4 - 1/2 Mile ENE
C46	CAEDF0000024248	1/4 - 1/2 Mile ENE
D47	CAEDF0000108308	1/4 - 1/2 Mile East
E48	CAEDF0000040435	1/4 - 1/2 Mile South
C49	CAEDF0000047584	1/4 - 1/2 Mile ENE
C50	CAEDF0000067437	1/4 - 1/2 Mile ENE
D51	CAEDF0000074577	1/4 - 1/2 Mile East
E52	CAEDF0000050046	1/4 - 1/2 Mile SSE
E53	CAEDF0000084616	1/4 - 1/2 Mile South
C54	CAEDF0000070004	1/4 - 1/2 Mile ENE
C56	CAEDF0000104145	1/4 - 1/2 Mile ENE
E57	CAEDF0000104956	1/4 - 1/2 Mile SSE
D58	CAEDF0000054493	1/4 - 1/2 Mile East
D59	CAEDF0000096635	1/4 - 1/2 Mile East
F60	CAEDF0000114351	1/4 - 1/2 Mile ENE
E61	CAEDF0000124423	1/4 - 1/2 Mile South
D62	CAEDF0000047056	1/4 - 1/2 Mile ENE
E63	CAEDF0000089005	1/4 - 1/2 Mile SSE
D64	CAEDF0000101979	1/4 - 1/2 Mile East
D65	CAEDF0000140786	1/4 - 1/2 Mile East
D66	CAEDF0000059001	1/4 - 1/2 Mile East
G67	CAEDF0000098174	1/4 - 1/2 Mile East
D68	CAEDF0000046496	1/4 - 1/2 Mile East
F69	CAEDF0000040461	1/4 - 1/2 Mile ENE
E70	CAEDF0000052205	1/4 - 1/2 Mile South
D71	CAEDF0000096710	1/4 - 1/2 Mile East
G72	CAEDF0000062694	1/4 - 1/2 Mile ESE
D73	CAEDF0000118271	1/4 - 1/2 Mile East
D74	CAEDF0000023291	1/4 - 1/2 Mile East
D75	CAEDF0000107932	1/4 - 1/2 Mile East
D76	CAEDF0000015651	1/4 - 1/2 Mile East
G77	CAEDF0000076909	1/4 - 1/2 Mile East

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
D78	CAEDF0000135335	1/4 - 1/2 Mile East
D79	CAEDF0000037636	1/4 - 1/2 Mile East
D80	CAEDF0000130707	1/4 - 1/2 Mile East
F81	CAEDF0000059620	1/4 - 1/2 Mile East
82	CADWR0000006769	1/4 - 1/2 Mile WSW
H83	CAEDF0000002074	1/4 - 1/2 Mile East
F84	CAEDF0000116441	1/4 - 1/2 Mile East
85	CADWR0000023861	1/4 - 1/2 Mile ESE
H86	CAEDF0000067580	1/4 - 1/2 Mile East
H87	CAEDF0000056648	1/4 - 1/2 Mile East
F88	CAEDF0000111061	1/4 - 1/2 Mile ENE
I90	CAEDF0000039736	1/4 - 1/2 Mile ENE
I91	CAEDF0000056530	1/4 - 1/2 Mile ENE
I92	CAEDF0000051630	1/2 - 1 Mile ENE
I93	CAEDF0000044659	1/2 - 1 Mile ENE
I94	CAEDF0000108215	1/2 - 1 Mile ENE
I95	CAEDF0000128050	1/2 - 1 Mile ENE
I96	CAEDF0000140383	1/2 - 1 Mile ENE
I97	CAEDF0000092475	1/2 - 1 Mile ENE
I98	CAEDF0000038735	1/2 - 1 Mile ENE
I99	CAEDF0000022813	1/2 - 1 Mile ENE
I100	CAEDF0000050818	1/2 - 1 Mile ENE
I101	CAEDF0000007477	1/2 - 1 Mile ENE
I102	CAEDF0000082109	1/2 - 1 Mile ENE
J103	CAEDF0000081741	1/2 - 1 Mile East
I104	CAEDF0000118959	1/2 - 1 Mile ENE
J105	CAEDF0000050771	1/2 - 1 Mile East
I106	CAEDF0000042605	1/2 - 1 Mile ENE
I107	CAEDF0000077514	1/2 - 1 Mile ENE
K108	CAEDF0000131159	1/2 - 1 Mile ENE
I109	CAEDF0000067490	1/2 - 1 Mile ENE
J110	CAEDF0000104715	1/2 - 1 Mile ENE
K111	CAEDF0000015219	1/2 - 1 Mile ENE
K112	CAEDF0000137768	1/2 - 1 Mile ENE
113	CAEDF0000056414	1/2 - 1 Mile ENE
K114	CAEDF0000109565	1/2 - 1 Mile ENE
K115	CAEDF0000072310	1/2 - 1 Mile ENE
K116	CAEDF0000096190	1/2 - 1 Mile ENE
K117	CAEDF0000016526	1/2 - 1 Mile ENE
118	CADDW0000000814	1/2 - 1 Mile East
K120	CAEDF0000034627	1/2 - 1 Mile ENE
L121	CAEDF0000033625	1/2 - 1 Mile ENE
L122	CAEDF0000139039	1/2 - 1 Mile ENE
L123	CAEDF0000033155	1/2 - 1 Mile ENE
L124	CAEDF0000101492	1/2 - 1 Mile ENE
L125	CAEDF0000005812	1/2 - 1 Mile NE
126	CAEDF0000106692	1/2 - 1 Mile ENE
L127	CAEDF0000119301	1/2 - 1 Mile ENE
L128	CAEDF0000069516	1/2 - 1 Mile ENE
L129	CAEDF0000083062	1/2 - 1 Mile ENE
L130	CAEDF0000111881	1/2 - 1 Mile ENE
L131	CAEDF0000023559	1/2 - 1 Mile NE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
L132	CAEDF0000031879	1/2 - 1 Mile ENE
L133	CAEDF0000101831	1/2 - 1 Mile ENE
L134	CAEDF0000126531	1/2 - 1 Mile ENE
L135	CAEDF0000095478	1/2 - 1 Mile ENE
L136	CAEDF0000114492	1/2 - 1 Mile ENE
L137	CAEDF0000101556	1/2 - 1 Mile ENE
L138	CAEDF0000013128	1/2 - 1 Mile ENE
L139	CAEDF0000105357	1/2 - 1 Mile ENE
M140	CAEDF0000051629	1/2 - 1 Mile NW
M141	CAEDF0000079273	1/2 - 1 Mile WNW
M142	CAEDF0000080448	1/2 - 1 Mile WNW
M143	CAEDF0000007268	1/2 - 1 Mile WNW
M144	CAEDF0000013254	1/2 - 1 Mile WNW
M145	CAEDF0000100573	1/2 - 1 Mile NW
M146	CAEDF0000119229	1/2 - 1 Mile WNW
M147	CAEDF0000050488	1/2 - 1 Mile NW
M148	CAEDF0000123049	1/2 - 1 Mile WNW
M150	CAEDF0000097225	1/2 - 1 Mile WNW
M151	CAEDF0000124372	1/2 - 1 Mile WNW
O152	CAEDF0000104544	1/2 - 1 Mile SW
M154	CAEDF0000069082	1/2 - 1 Mile WNW
O155	CAEDF0000087471	1/2 - 1 Mile SW
O157	CAEDF0000009580	1/2 - 1 Mile SW
O158	CAEDF0000130687	1/2 - 1 Mile SW
O159	CAEDF0000116296	1/2 - 1 Mile SW
O160	CAEDF0000014713	1/2 - 1 Mile SW
P161	CADDW0000004052	1/2 - 1 Mile WNW
P162	CADDW0000002959	1/2 - 1 Mile WNW
P163	CAUSGS000002913	1/2 - 1 Mile WNW
P164	CAUSGSN00003498	1/2 - 1 Mile WNW
P165	CAEDF0000126636	1/2 - 1 Mile WNW
Q166	CAEDF0000055764	1/2 - 1 Mile NNW
Q167	CAEDF0000117092	1/2 - 1 Mile NNW
P168	CAEDF0000124636	1/2 - 1 Mile WNW
P169	CAEDF0000117166	1/2 - 1 Mile WNW
P170	CAEDF0000034318	1/2 - 1 Mile WNW
Q171	CAEDF0000076520	1/2 - 1 Mile NNW
Q172	CAEDF0000075627	1/2 - 1 Mile NNW
Q173	CAEDF0000042014	1/2 - 1 Mile NNW
Q174	CAEDF0000080266	1/2 - 1 Mile NNW
Q175	CAEDF0000130536	1/2 - 1 Mile NNW
Q176	CAEDF0000115848	1/2 - 1 Mile NNW
Q177	CAEDF0000096141	1/2 - 1 Mile NNW
Q178	CAEDF0000047698	1/2 - 1 Mile NNW
P179	CAEDF0000084558	1/2 - 1 Mile WNW
Q180	CAEDF0000020162	1/2 - 1 Mile NNW
Q181	CAEDF0000112402	1/2 - 1 Mile NNW
R182	CAEDF0000070177	1/2 - 1 Mile WNW
P183	CAEDF0000065815	1/2 - 1 Mile WNW
Q185	CAEDF0000102182	1/2 - 1 Mile NNW
Q186	CAEDF0000123169	1/2 - 1 Mile NNW
Q187	CAEDF0000073796	1/2 - 1 Mile NNW

STATE DATABASE WELL INFORMATION

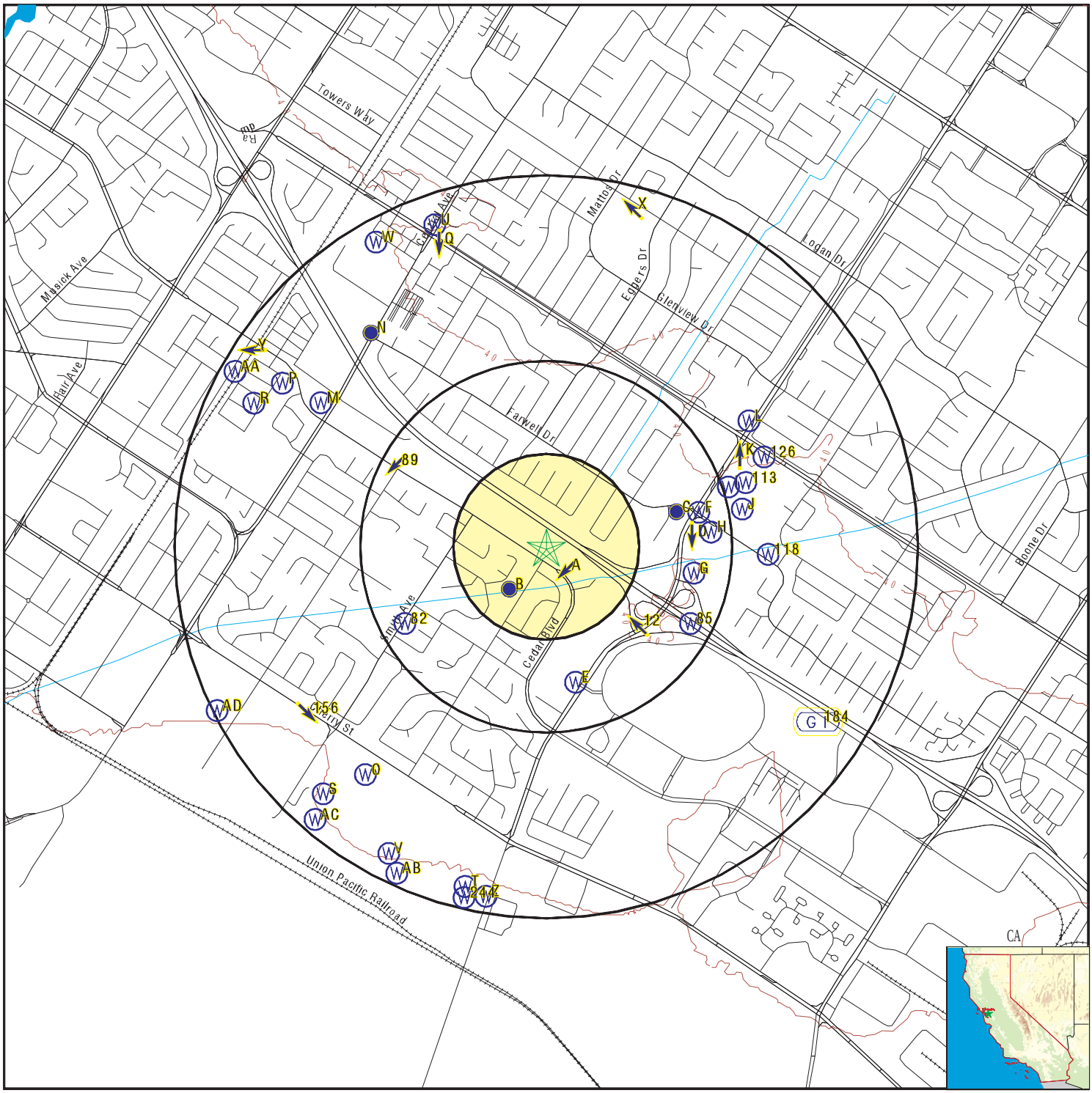
MAP ID	WELL ID	LOCATION FROM TP
Q188	CAEDF0000007669	1/2 - 1 Mile NNW
Q189	CAEDF0000141874	1/2 - 1 Mile NNW
Q190	CAEDF0000113711	1/2 - 1 Mile NNW
S192	CAEDF0000104016	1/2 - 1 Mile SW
Q193	CAEDF0000109185	1/2 - 1 Mile NNW
S194	CAEDF0000006278	1/2 - 1 Mile SW
Q195	CAEDF0000058289	1/2 - 1 Mile NNW
R196	CAEDF0000042808	1/2 - 1 Mile WNW
Q197	CAEDF0000101714	1/2 - 1 Mile NNW
T198	CAEDF0000134552	1/2 - 1 Mile SSW
Q199	CAEDF0000004511	1/2 - 1 Mile NNW
U200	CAEDF0000007649	1/2 - 1 Mile NNW
S201	CAEDF0000131917	1/2 - 1 Mile SW
V202	CAEDF0000079168	1/2 - 1 Mile SSW
S203	CAEDF0000135633	1/2 - 1 Mile SW
U204	CAEDF0000032910	1/2 - 1 Mile NNW
V205	CAEDF0000087968	1/2 - 1 Mile SSW
V206	CAEDF0000067189	1/2 - 1 Mile SSW
V207	CAEDF0000118460	1/2 - 1 Mile SSW
V208	CAEDF0000099708	1/2 - 1 Mile SSW
W209	CAEDF0000005660	1/2 - 1 Mile NNW
W210	CAEDF0000092243	1/2 - 1 Mile NNW
W211	CAEDF0000093207	1/2 - 1 Mile NNW
V212	CAEDF0000054750	1/2 - 1 Mile SSW
V213	CAEDF0000000517	1/2 - 1 Mile SSW
U214	CAEDF0000101739	1/2 - 1 Mile NNW
T216	CAEDF0000124993	1/2 - 1 Mile SSW
W218	CAEDF0000070426	1/2 - 1 Mile NNW
V219	CAEDF0000052946	1/2 - 1 Mile SSW
Z220	CAEDF0000096697	1/2 - 1 Mile South
W221	CAEDF0000122368	1/2 - 1 Mile NNW
AA222	CAEDF0000116585	1/2 - 1 Mile WNW
T224	CAEDF0000121664	1/2 - 1 Mile SSW
Z225	CAEDF0000006092	1/2 - 1 Mile South
V226	CAEDF0000084833	1/2 - 1 Mile SSW
W227	CAEDF0000139897	1/2 - 1 Mile NNW
T228	CAEDF0000113511	1/2 - 1 Mile SSW
T229	CAEDF0000036924	1/2 - 1 Mile SSW
T230	CAEDF0000126345	1/2 - 1 Mile SSW
Z231	CAEDF0000089125	1/2 - 1 Mile South
AB232	CAEDF0000134129	1/2 - 1 Mile SSW
AC233	CAEDF0000033178	1/2 - 1 Mile SW
W234	CAEDF0000007863	1/2 - 1 Mile NNW
AC235	CAEDF0000115959	1/2 - 1 Mile SW
AC236	CAEDF0000109842	1/2 - 1 Mile SW
AC237	CAEDF0000016718	1/2 - 1 Mile SW
Y238	CAEDF0000137465	1/2 - 1 Mile WNW
AA239	CAEDF0000032085	1/2 - 1 Mile WNW
AA240	CAEDF0000101191	1/2 - 1 Mile WNW
AA241	CAEDF0000113556	1/2 - 1 Mile WNW
AA242	CAEDF0000035081	1/2 - 1 Mile WNW
Z243	CAEDF0000067978	1/2 - 1 Mile South

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
244	CAEDF0000082437	1/2 - 1 Mile SSW
AB245	CAEDF0000106725	1/2 - 1 Mile SSW
AD246	CAEDF0000003205	1/2 - 1 Mile WSW
AD247	CAEDF0000109069	1/2 - 1 Mile WSW
AD248	CAEDF0000075109	1/2 - 1 Mile WSW
AD249	CAEDF0000118793	1/2 - 1 Mile WSW
AD250	CAEDF0000120888	1/2 - 1 Mile WSW

PHYSICAL SETTING SOURCE MAP - 06923688.2r



County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location
Closest Hydrogeological Data
Oil, gas or related wells

SITE NAME:	38600 Cedar Blvd	CLIENT:	Engeo Inc.
ADDRESS:	38600 Cedar Blvd Newark CA 94560	CONTACT:	Divya Bhargava
LAT/LONG:	37.532095 / 122.008076	INQUIRY #:	06923688.2r
		DATE:	April 01, 2022 3:13 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
SSE
0 - 1/8 Mile
Higher

CA WELLS **CAEDF0000119983**

Well ID:	T0600100516-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100516&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100516&assigned_name=MW-6		

A2
SE
0 - 1/8 Mile
Higher

CA WELLS **CAEDF0000132672**

Well ID:	T0600100516-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100516&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100516&assigned_name=MW-1		

A3
SE
0 - 1/8 Mile
Higher

CA WELLS **CAEDF0000089837**

Well ID:	T0600100516-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100516&assigned_name=MW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100516&assigned_name=MW-7		

A4
ESE
0 - 1/8 Mile
Higher

CA WELLS **CAEDF0000104843**

Well ID:	T0600100516-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100516&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100516&assigned_name=MW-2		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A5
SSE
0 - 1/8 Mile
Higher

CA WELLS **CAEDF0000034312**

Well ID:	T0600100516-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100516&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100516&assigned_name=MW-8		

A6
ESE
0 - 1/8 Mile
Higher

CA WELLS **CAEDF0000117569**

Well ID:	T0600100516-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100516&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100516&assigned_name=MW-4		

A7
SE
0 - 1/8 Mile
Higher

CA WELLS **CAEDF0000094672**

Well ID:	T0600100516-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100516&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100516&assigned_name=MW-5		

A8
ESE
0 - 1/8 Mile
Higher

CA WELLS **CAEDF0000033820**

Well ID:	T0600100516-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100516&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100516&assigned_name=MW-3		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
A9 **SSE** **1/8 - 1/4 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	0045 SW 10.44 10.84 Not Reported 05/12/1998	**AQUIFLOW**	**69635**

B10
SW
1/8 - 1/4 Mile
Lower

CA WELLS **CADDW0000021462**

Well ID:	0110001-049	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	BELLFLOWER WELL	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=0110001-049&store_num=		
GeoTracker Data:	Not Reported		

B11
SW
1/8 - 1/4 Mile
Lower

FED USGS **USGS40000183594**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S001W06H004M	Type:	Well
Description:	Not Reported	HUC:	18050003
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19740411	Well Depth:	279
Well Depth Units:	ft	Well Hole Depth:	295
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	43	Level reading date:	1983-09-08
Feet below surface:	40.0	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1983-08-12	Feet below surface:	37.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-07-15	Feet below surface:	36.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-06-17	Feet below surface:	34.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-20	Feet below surface:	30.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-15	Feet below surface:	46.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1983-03-18	Feet below surface:	45.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1983-02-17	Feet below surface:	29.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-01-21	Feet below surface:	52.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1982-12-29	Feet below surface:	54.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1982-09-24	Feet below surface:	53.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-03-28	Feet below surface:	44.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-25	Feet below surface:	63.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-13	Feet below surface:	45.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-02	Feet below surface:	50.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-26	Feet below surface:	47.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-05	Feet below surface:	48.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-02	Feet below surface:	29.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-24	Feet below surface:	52.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-21	Feet below surface:	52.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-13	Feet below surface:	53.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-03	Feet below surface:	53.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-29	Feet below surface:	50.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-28	Feet below surface:	44.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-30	Feet below surface:	45.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-01	Feet below surface:	48.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-20	Feet below surface:	43.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1978-03-24	Feet below surface:	47.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1977-10-03	Feet below surface:	42.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1977-06-17	Feet below surface:	42.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1976-09-29	Feet below surface:	63.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-30	Feet below surface:	48.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-29	Feet below surface:	47.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-30	Feet below surface:	48.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-11	Feet below surface:	59.1
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1975-07-07	Feet below surface:	58.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1975-06-30	Feet below surface:	53.2
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1975-06-03	Feet below surface:	56.1
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1975-03-25	Feet below surface:	52.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-07	Feet below surface:	33.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-15	Feet below surface:	32.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-23	Feet below surface:	46.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-03	Feet below surface:	32.1
Feet to sea level:	Not Reported	Note:	Not Reported

12
SE
1/4 - 1/2 Mile Higher

Site ID:	0279
Groundwater Flow:	NW
Shallow Water Depth:	7.35
Deep Water Depth:	11.54
Average Water Depth:	Not Reported
Date:	03/26/1999

AQUIFLOW **69646**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
C13 **ENE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	0092 Not Reported 10.37 21.70 Not Reported 05/03/1999	**AQUIFLOW**	**69515**

C14
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000109791**

Well ID:	T0600101482-MW-22	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-22
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-22&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-22		

D15
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000002743**

Well ID:	T0600100346-C-11	Well Type:	MONITORING
Source:	EDF	Other Name:	C-11
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-11&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-11		

C16
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000136157**

Well ID:	T0600101482-MW-16	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-16
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-16&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-16		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E17
SSE **CA WELLS** **CAEDF0000066958**
1/4 - 1/2 Mile
Higher

Well ID:	T0600101483-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-2		

C18
ENE **CA WELLS** **CAEDF0000117281**
1/4 - 1/2 Mile
Higher

Well ID:	T0600101482-MW-15	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-15
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-15&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-15		

C19
ENE **CA WELLS** **CAEDF0000138304**
1/4 - 1/2 Mile
Higher

Well ID:	T0600101482-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-3		

C20
ENE **CA WELLS** **CAEDF0000032750**
1/4 - 1/2 Mile
Higher

Well ID:	T0600101482-MW-24	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-24
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-24&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-24		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C21
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000053922**

Well ID:	T0600101482-MW-14	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-14
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-14&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-14		

C22
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000126648**

Well ID:	T0600101117-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101117&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101117&assigned_name=MW-2		

E23
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000046611**

Well ID:	T0600101483-OWA	Well Type:	MONITORING
Source:	EDF	Other Name:	OWA
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=OWA&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=OWA		

C24
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000113478**

Well ID:	T0600101482-MW-9	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-9		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E25
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000138820**

Well ID:	T0600101483-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-3		

E26
South
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000072391**

Well ID:	T0600101483-MW-10	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-10
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-10&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-10		

E27
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000069926**

Well ID:	T0600101483-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-1		

E28
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000011096**

Well ID:	T0600101483-MW-9	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-9		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E29
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000118759**

Well ID:	T0600101483-OWB	Well Type:	MONITORING
Source:	EDF	Other Name:	OWB
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=OWB&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=OWB		

C30
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000069142**

Well ID:	T0600101482-MW-20	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-20
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-20&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-20		

E31
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000008897**

Well ID:	T0600101483-RW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	RW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=RW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=RW-2		

E32
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000101074**

Well ID:	T0600101483-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-8		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E33
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000079633**

Well ID:	T0600101483-OWC	Well Type:	MONITORING
Source:	EDF	Other Name:	OWC
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=OWC&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=OWC		

E34
South
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000061894**

Well ID:	T0600101483-MW-13	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-13
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-13&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-13		

E35
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000068163**

Well ID:	T0600101483-RW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	RW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=RW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=RW-1		

E36
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000040699**

Well ID:	T0600101483-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-4		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E37
South
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000136691**

Well ID:	T0600101483-MW-12	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-12
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-12&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-12		

C38
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000014112**

Well ID:	T0600101482-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-2		

C39
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000061970**

Well ID:	T0600101482-MW-23	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-23
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-23&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-23		

E40
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000082446**

Well ID:	T0600101483-MW-16	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-16
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-16&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-16		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E41
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000077128**

Well ID:	T0600101483-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-6		

D42
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000117404**

Well ID:	T0600101482-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-8		

C43
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000037641**

Well ID:	T0600101117-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101117&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101117&assigned_name=MW-3		

E44
South
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000051029**

Well ID:	T0600101483-MW-15	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-15
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-15&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-15		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C45
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000060851**

Well ID:	T0600101482-MW-11	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-11
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-11&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-11		

C46
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000024248**

Well ID:	T0600101482-MW-17	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-17
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-17&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-17		

D47
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000108308**

Well ID:	T0600100346-C-12	Well Type:	MONITORING
Source:	EDF	Other Name:	C-12
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-12&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-12		

E48
South
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000040435**

Well ID:	T0600101483-MW-14	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-14
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-14&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-14		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C49
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000047584**

Well ID:	T0600101482-EX-3	Well Type:	MONITORING
Source:	EDF	Other Name:	EX-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=EX-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=EX-3		

C50
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000067437**

Well ID:	T0600101482-MW-10	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-10
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-10&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-10		

D51
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000074577**

Well ID:	T0600100346-C-20	Well Type:	MONITORING
Source:	EDF	Other Name:	C-20
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-20&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-20		

E52
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000050046**

Well ID:	T0600101483-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-5		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E53
South
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000084616**

Well ID:	T0600101483-MW-18	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-18
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-18&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-18		

C54
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000070004**

Well ID:	T0600101482-MW-19	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-19
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-19&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-19		

D55
ENE
1/4 - 1/2 Mile
Higher

Site ID:	0037
Groundwater Flow:	S
Shallow Water Depth:	11.25
Deep Water Depth:	25.14
Average Water Depth:	Not Reported
Date:	12/18/1998

AQUIFLOW **50693**

C56
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000104145**

Well ID:	T0600101482-MW-21	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-21
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-21&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-21		

E57
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000104956**

Well ID:	T0600101483-MW-11	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-11

GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-11&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-11

D58
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000054493**

Well ID: T0600100346-C-5 Well Type: MONITORING
Source: EDF Other Name: C-5
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-5&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-5

D59
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000096635**

Well ID: T0600100346-CR-2 Well Type: MONITORING
Source: EDF Other Name: CR-2
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=CR-2&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=CR-2

F60
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000114351**

Well ID: T0600101482-MW-5 Well Type: MONITORING
Source: EDF Other Name: MW-5
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-5&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-5

E61
South
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000124423**

Well ID: T0600101483-MW-17 Well Type: MONITORING
Source: EDF Other Name: MW-17
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-17&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-17

D62
ENE **CA WELLS** **CAEDF0000047056**
1/4 - 1/2 Mile
Higher

Well ID:	T0600101482-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-6		

E63
SSE **CA WELLS** **CAEDF0000089005**
1/4 - 1/2 Mile
Higher

Well ID:	T0600101483-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-7		

D64
East **CA WELLS** **CAEDF0000101979**
1/4 - 1/2 Mile
Higher

Well ID:	T0600100346-C-15	Well Type:	MONITORING
Source:	EDF	Other Name:	C-15
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-15&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-15		

D65
East **CA WELLS** **CAEDF0000140786**
1/4 - 1/2 Mile
Higher

Well ID:	T0600100346-C-1	Well Type:	MONITORING
Source:	EDF	Other Name:	C-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-1		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D66
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000059001**

Well ID:	T0600100346-C-19	Well Type:	MONITORING
Source:	EDF	Other Name:	C-19
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-19&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-19		

G67
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000098174**

Well ID:	T0600100346-C-21	Well Type:	MONITORING
Source:	EDF	Other Name:	C-21
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-21&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-21		

D68
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000046496**

Well ID:	T0600100346-C-10	Well Type:	MONITORING
Source:	EDF	Other Name:	C-10
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-10&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-10		

F69
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000040461**

Well ID:	T0600101482-MW-18	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-18
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101482&assigned_name=MW-18&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101482&assigned_name=MW-18		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E70
South
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000052205**

Well ID:	T0600101483-MW-19	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-19
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101483&assigned_name=MW-19&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101483&assigned_name=MW-19		

D71
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000096710**

Well ID:	T0600100346-C-8	Well Type:	MONITORING
Source:	EDF	Other Name:	C-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-8		

G72
ESE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000062694**

Well ID:	T0600100346-C-24	Well Type:	MONITORING
Source:	EDF	Other Name:	C-24
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-24&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-24		

D73
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000118271**

Well ID:	T0600100346-C-13	Well Type:	MONITORING
Source:	EDF	Other Name:	C-13
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-13&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-13		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D74
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000023291**

Well ID:	T0600100346-C-18	Well Type:	MONITORING
Source:	EDF	Other Name:	C-18
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-18&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-18		

D75
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000107932**

Well ID:	T0600100346-C-6	Well Type:	MONITORING
Source:	EDF	Other Name:	C-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-6		

D76
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000015651**

Well ID:	T0600100346-CR-1	Well Type:	MONITORING
Source:	EDF	Other Name:	CR-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=CR-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=CR-1		

G77
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000076909**

Well ID:	T0600100346-C-23	Well Type:	MONITORING
Source:	EDF	Other Name:	C-23
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-23&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-23		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D78
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000135335**

Well ID:	T0600100346-C-14	Well Type:	MONITORING
Source:	EDF	Other Name:	C-14
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-14&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-14		

D79
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000037636**

Well ID:	T0600100346-C-16	Well Type:	MONITORING
Source:	EDF	Other Name:	C-16
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-16&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-16		

D80
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000130707**

Well ID:	T0600100346-C-2	Well Type:	MONITORING
Source:	EDF	Other Name:	C-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-2		

F81
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000059620**

Well ID:	T0600100346-C-17	Well Type:	MONITORING
Source:	EDF	Other Name:	C-17
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-17&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-17		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

82
WSW
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR0000006769**

Well ID:	05S01W06G001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	05S01W06G001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=05S01W06G001M&store_num=		
GeoTracker Data:	Not Reported		

H83
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000002074**

Well ID:	T0600100346-C-3	Well Type:	MONITORING
Source:	EDF	Other Name:	C-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-3		

F84
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000116441**

Well ID:	T0600100346-C-7	Well Type:	MONITORING
Source:	EDF	Other Name:	C-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-7		

85
ESE
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR0000023861**

Well ID:	05S01W05F001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	05S01W05F001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=05S01W05F001M&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H86
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000067580**

Well ID:	T0600100346-C-4	Well Type:	MONITORING
Source:	EDF	Other Name:	C-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-4		

H87
East
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000056648**

Well ID:	T0600100346-C-22	Well Type:	MONITORING
Source:	EDF	Other Name:	C-22
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100346&assigned_name=C-22&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100346&assigned_name=C-22		

F88
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000111061**

Well ID:	T0600101480-MW-19	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-19
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-19&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-19		

89
WNW
1/4 - 1/2 Mile
Higher

AQUIFLOW **69544**

Site ID:	0412
Groundwater Flow:	SW
Shallow Water Depth:	8.46’
Deep Water Depth:	11.28
Average Water Depth:	Not Reported
Date:	01/14/1997

I90
ENE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000039736**

Well ID:	T0600101480-MW-14	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-14

GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-14&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-14

I91
ENE **CA WELLS** **CAEDF0000056530**
1/4 - 1/2 Mile
Higher

Well ID: T0600101480-MW-20 Well Type: MONITORING
Source: EDF Other Name: MW-20
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-20&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-20

I92
ENE **CA WELLS** **CAEDF0000051630**
1/2 - 1 Mile
Higher

Well ID: T0600101480-U-2 Well Type: MONITORING
Source: EDF Other Name: U-2
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=U-2&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=U-2

I93
ENE **CA WELLS** **CAEDF0000044659**
1/2 - 1 Mile
Higher

Well ID: T0600101480-MW-10 Well Type: MONITORING
Source: EDF Other Name: MW-10
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-10&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-10

I94
ENE **CA WELLS** **CAEDF0000108215**
1/2 - 1 Mile
Higher

Well ID: T0600101480-MW-15 Well Type: MONITORING
Source: EDF Other Name: MW-15
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-15&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-15

I95
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000128050**

Well ID:	T0600101480-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-6		

I96
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000140383**

Well ID:	T0600101480-U-3	Well Type:	MONITORING
Source:	EDF	Other Name:	U-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=U-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=U-3		

I97
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000092475**

Well ID:	T0600101480-MW-11	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-11
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-11&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-11		

I98
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000038735**

Well ID:	SL0600199502-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600199502&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600199502&assigned_name=MW-3		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I99
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000022813**

Well ID:	T0600101480-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-7		

I100
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000050818**

Well ID:	T0600101480-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-8		

I101
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000007477**

Well ID:	T0600101480-EX-1	Well Type:	MONITORING
Source:	EDF	Other Name:	EX-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=EX-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=EX-1		

I102
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000082109**

Well ID:	T0600101480-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-4		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

J103
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000081741**

Well ID:	SL0600199502-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600199502&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600199502&assigned_name=MW-1		

I104
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000118959**

Well ID:	T0600101480-EX-2	Well Type:	MONITORING
Source:	EDF	Other Name:	EX-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=EX-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=EX-2		

J105
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000050771**

Well ID:	SL0600199502-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600199502&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600199502&assigned_name=MW-4		

I106
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000042605**

Well ID:	T0600101480-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-5		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I107
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000077514**

Well ID:	T0600101480-MW-13	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-13
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-13&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-13		

K108
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000131159**

Well ID:	T0600101480-MW-18	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-18
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-18&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-18		

I109
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000067490**

Well ID:	T0600101480-MW-9	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-9		

J110
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000104715**

Well ID:	SL0600199502-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600199502&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600199502&assigned_name=MW-2		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

K111
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000015219**

Well ID:	T0600101480-MW-21	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-21
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-21&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-21		

K112
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000137768**

Well ID:	T0600101480-MW-26	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-26
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-26&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-26		

113
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000056414**

Well ID:	T0600101480-MW-16	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-16
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-16&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-16		

K114
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000109565**

Well ID:	T0600101480-MW-23	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-23
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-23&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-23		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

K115
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000072310**

Well ID:	T0600101480-MW-17	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-17
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-17&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-17		

K116
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000096190**

Well ID:	T0600101480-EX-3	Well Type:	MONITORING
Source:	EDF	Other Name:	EX-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=EX-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=EX-3		

K117
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000016526**

Well ID:	T0600101480-MW-22	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-22
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-22&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-22		

118
East
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000000814**

Well ID:	0110001-050	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	FARWELL WELL	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=0110001-050&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
K119 **ENE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	0004 N 14.70 34.28 Not Reported 04/15/1994	**AQUIFLOW**	**69613**

K120
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000034627**

Well ID:	T0600101480-MW-28	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-28
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-28&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-28		

L121
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000033625**

Well ID:	T0600100548-MW5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW5		

L122
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000139039**

Well ID:	T0600101480-MW-25	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-25
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-25&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-25		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

L123
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000033155**

Well ID:	T0600100548-MW6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW6		

L124
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000101492**

Well ID:	T0600100548-MW4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW4		

L125
NE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000005812**

Well ID:	T0600100548-MW2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW2		

126
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000106692**

Well ID:	T0600101480-MW-24	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-24
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101480&assigned_name=MW-24&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101480&assigned_name=MW-24		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

L127
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000119301**

Well ID:	T0600100548-MW11R	Well Type:	MONITORING
Source:	EDF	Other Name:	MW11R
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW11R&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW11R		

L128
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000069516**

Well ID:	T0600100548-MW10	Well Type:	MONITORING
Source:	EDF	Other Name:	MW10
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW10&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW10		

L129
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000083062**

Well ID:	T0600100548-MW1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW1		

L130
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000111881**

Well ID:	T0600100548-MW3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW3		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

L131
NE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000023559**

Well ID:	T0600100548-MW13	Well Type:	MONITORING
Source:	EDF	Other Name:	MW13
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW13&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW13		

L132
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000031879**

Well ID:	T0600100548-MW9R	Well Type:	MONITORING
Source:	EDF	Other Name:	MW9R
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW9R&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW9R		

L133
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000101831**

Well ID:	T0600100548-MW12	Well Type:	MONITORING
Source:	EDF	Other Name:	MW12
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW12&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW12		

L134
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000126531**

Well ID:	T0600100548-MW8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW8		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

L135
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000095478**

Well ID:	T0600100548-MW7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW7		

L136
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000114492**

Well ID:	T0600100548-MW14	Well Type:	MONITORING
Source:	EDF	Other Name:	MW14
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW14&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW14		

L137
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000101556**

Well ID:	T0600100548-MW15	Well Type:	MONITORING
Source:	EDF	Other Name:	MW15
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW15&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW15		

L138
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000013128**

Well ID:	T0600100548-MW16	Well Type:	MONITORING
Source:	EDF	Other Name:	MW16
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW16&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW16		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

L139
ENE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000105357**

Well ID:	T0600100548-MW17	Well Type:	MONITORING
Source:	EDF	Other Name:	MW17
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100548&assigned_name=MW17&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100548&assigned_name=MW17		

M140
NW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000051629**

Well ID:	T0600102160-MW-10	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-10
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102160&assigned_name=MW-10&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102160&assigned_name=MW-10		

M141
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000079273**

Well ID:	T0600102160-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102160&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102160&assigned_name=MW-4		

M142
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000080448**

Well ID:	T0600102160-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102160&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102160&assigned_name=MW-3		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

M143
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000007268**

Well ID:	T0600102160-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102160&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102160&assigned_name=MW-2		

M144
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000013254**

Well ID:	T0600102160-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102160&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102160&assigned_name=MW-1		

M145
NW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000100573**

Well ID:	T0600102160-MW-9	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102160&assigned_name=MW-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102160&assigned_name=MW-9		

M146
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000119229**

Well ID:	T0600102160-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102160&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102160&assigned_name=MW-8		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

M147
NW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000050488**

Well ID:	T0600102160-MW-11	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-11
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102160&assigned_name=MW-11&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102160&assigned_name=MW-11		

M148
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000123049**

Well ID:	T0600102160-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102160&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102160&assigned_name=MW-6		

N149
NW
1/2 - 1 Mile
Higher

Site ID:	0299
Groundwater Flow:	Varies
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	25
Date:	06/03/1996

AQUIFLOW **50692**

M150
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000097225**

Well ID:	T0600102160-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102160&assigned_name=MW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102160&assigned_name=MW-7		

M151
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000124372**

Well ID:	T0600102160-MW-12C	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-12C

GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102160&assigned_name=MW-12C&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102160&assigned_name=MW-12C

O152
SW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000104544**

Well ID: SL0600113744-MW-4 Well Type: MONITORING
Source: EDF Other Name: MW-4
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600113744&assigned_name=MW-4&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600113744&assigned_name=MW-4

N153
NW
1/2 - 1 Mile
Higher

AQUIFLOW **69610**

Site ID: 0150
Groundwater Flow: WSW
Shallow Water Depth: 23.75
Deep Water Depth: 24.09
Average Water Depth: Not Reported
Date: 07/15/1997

M154
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000069082**

Well ID: T0600102160-MW-5C Well Type: MONITORING
Source: EDF Other Name: MW-5C
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102160&assigned_name=MW-5C&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102160&assigned_name=MW-5C

O155
SW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000087471**

Well ID: SL0600113744-MW-6 Well Type: MONITORING
Source: EDF Other Name: MW-6
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600113744&assigned_name=MW-6&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600113744&assigned_name=MW-6

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
156 **SW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	0254 SE 4’ 9.9’ Not Reported 01/09/1997	**AQUIFLOW**	**69641**

O157
SW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000009580**

Well ID:	SL0600113744-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600113744&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600113744&assigned_name=MW-5		

O158
SW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000130687**

Well ID:	SL0600113744-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600113744&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600113744&assigned_name=MW-1		

O159
SW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000116296**

Well ID:	SL0600113744-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600113744&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600113744&assigned_name=MW-2		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

O160
SW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000014713**

Well ID:	SL0600113744-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600113744&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600113744&assigned_name=MW-3		

P161
WNW
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000004052**

Well ID:	0110001-046	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	CEDAR WELL 02	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=0110001-046&store_num=		
GeoTracker Data:	Not Reported		

P162
WNW
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000002959**

Well ID:	0110001-045	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	CEDAR WELL 01	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=0110001-045&store_num=		
GeoTracker Data:	Not Reported		

P163
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAUSGS000002913**

P164
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00003498**

Well ID:	USGS-373200122010001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-373200122010001	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-373200122010001&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

P165
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000126636**

Well ID:	T0600102073-MW-28	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-28
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102073&assigned_name=MW-28&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102073&assigned_name=MW-28		

Q166
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000055764**

Well ID:	T0600100542-MW6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100542&assigned_name=MW6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100542&assigned_name=MW6		

Q167
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000117092**

Well ID:	T0600100542-MW9	Well Type:	MONITORING
Source:	EDF	Other Name:	MW9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100542&assigned_name=MW9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100542&assigned_name=MW9		

P168
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000124636**

Well ID:	T0600102073-MW-1B	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1B
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102073&assigned_name=MW-1B&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102073&assigned_name=MW-1B		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

P169
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000117166**

Well ID:	T0600101972-MW-1B	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1B
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101972&assigned_name=MW-1B&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101972&assigned_name=MW-1B		

P170
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000034318**

Well ID:	T0600101972-MW-1A	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1A
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101972&assigned_name=MW-1A&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101972&assigned_name=MW-1A		

Q171
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000076520**

Well ID:	T0600100542-MW8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100542&assigned_name=MW8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100542&assigned_name=MW8		

Q172
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000075627**

Well ID:	T0600100542-VW1	Well Type:	MONITORING
Source:	EDF	Other Name:	VW1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100542&assigned_name=VW1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100542&assigned_name=VW1		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Q173
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000042014**

Well ID:	T0600100542-MW11	Well Type:	MONITORING
Source:	EDF	Other Name:	MW11
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100542&assigned_name=MW11&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100542&assigned_name=MW11		

Q174
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000080266**

Well ID:	T0600100542-MW1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100542&assigned_name=MW1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100542&assigned_name=MW1		

Q175
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000130536**

Well ID:	T0600100542-MW4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100542&assigned_name=MW4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100542&assigned_name=MW4		

Q176
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000115848**

Well ID:	T0600100542-VW3	Well Type:	MONITORING
Source:	EDF	Other Name:	VW3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100542&assigned_name=VW3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100542&assigned_name=VW3		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Q177
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000096141**

Well ID:	T0600100542-VW2	Well Type:	MONITORING
Source:	EDF	Other Name:	VW2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100542&assigned_name=VW2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100542&assigned_name=VW2		

Q178
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000047698**

Well ID:	T0600100542-MW2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100542&assigned_name=MW2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100542&assigned_name=MW2		

P179
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000084558**

Well ID:	T0600102073-MW-26	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-26
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102073&assigned_name=MW-26&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102073&assigned_name=MW-26		

Q180
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000020162**

Well ID:	T0600100542-MW3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100542&assigned_name=MW3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100542&assigned_name=MW3		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Q181
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000112402**

Well ID:	T0600100215-AW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	AW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100215&assigned_name=AW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100215&assigned_name=AW-5		

R182
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000070177**

Well ID:	T0600102073-MW-27	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-27
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102073&assigned_name=MW-27&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102073&assigned_name=MW-27		

P183
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000065815**

Well ID:	T0600101972-MW-2A	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2A
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101972&assigned_name=MW-2A&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101972&assigned_name=MW-2A		

184
ESE
1/2 - 1 Mile
Higher

AQUIFLOW **50264**

Site ID:	286
Groundwater Flow:	Not Reported
Shallow Water Depth:	12.42
Deep Water Depth:	23.92
Average Water Depth:	Not Reported
Date:	09/09/1998

Q185
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000102182**

Well ID:	T0600100215-AW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	AW-4

GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100215&assigned_name=AW-4&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100215&assigned_name=AW-4

Q186
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000123169**

Well ID: T0600100542-MW7 Well Type: MONITORING
Source: EDF Other Name: MW7
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100542&assigned_name=MW7&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100542&assigned_name=MW7

Q187
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000073796**

Well ID: T0600100542-MW10 Well Type: MONITORING
Source: EDF Other Name: MW10
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100542&assigned_name=MW10&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100542&assigned_name=MW10

Q188
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000007669**

Well ID: T0600100542-MW5 Well Type: MONITORING
Source: EDF Other Name: MW5
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100542&assigned_name=MW5&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100542&assigned_name=MW5

Q189
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000141874**

Well ID: T0600100215-MW-1 Well Type: MONITORING
Source: EDF Other Name: MW-1
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100215&assigned_name=MW-1&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100215&assigned_name=MW-1

Q190
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000113711**

Well ID:	T0600100215-AW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	AW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100215&assigned_name=AW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100215&assigned_name=AW-2		

Q191
NNW
1/2 - 1 Mile
Higher

AQUIFLOW **69528**

Site ID:	0076
Groundwater Flow:	S
Shallow Water Depth:	21.17
Deep Water Depth:	39.05
Average Water Depth:	Not Reported
Date:	04/26/1999

S192
SW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000104016**

Well ID:	T0600145392-OMW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	OMW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600145392&assigned_name=OMW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600145392&assigned_name=OMW-2		

Q193
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000109185**

Well ID:	T0600100215-MW-9	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100215&assigned_name=MW-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100215&assigned_name=MW-9		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

S194
SW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000006278**

Well ID:	T0600145392-OMW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	OMW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600145392&assigned_name=OMW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600145392&assigned_name=OMW-1		

Q195
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000058289**

Well ID:	T0600100215-AW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	AW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100215&assigned_name=AW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100215&assigned_name=AW-1		

R196
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000042808**

Well ID:	T0600101972-MW-3A	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3A
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101972&assigned_name=MW-3A&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101972&assigned_name=MW-3A		

Q197
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000101714**

Well ID:	T0600100215-AW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	AW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100215&assigned_name=AW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100215&assigned_name=AW-3		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

T198
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000134552**

Well ID:	SL181261126-MW-IV-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-IV-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181261126&assigned_name=MW-IV-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181261126&assigned_name=MW-IV-3		

Q199
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000004511**

Well ID:	T0600100215-RW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	RW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100215&assigned_name=RW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100215&assigned_name=RW-1		

U200
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000007649**

Well ID:	T0600100215-AW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	AW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100215&assigned_name=AW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100215&assigned_name=AW-6		

S201
SW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000131917**

Well ID:	T0600145392-OMW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	OMW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600145392&assigned_name=OMW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600145392&assigned_name=OMW-3		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

V202
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000079168**

Well ID:	SL181271127-W-4	Well Type:	MONITORING
Source:	EDF	Other Name:	W-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181271127&assigned_name=W-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181271127&assigned_name=W-4		

S203
SW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000135633**

Well ID:	T0600145392-OMW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	OMW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600145392&assigned_name=OMW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600145392&assigned_name=OMW-4		

U204
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000032910**

Well ID:	T0600100215-AW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	AW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100215&assigned_name=AW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100215&assigned_name=AW-8		

V205
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000087968**

Well ID:	SL181271127-KW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	KW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181271127&assigned_name=KW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181271127&assigned_name=KW-5		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

V206
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000067189**

Well ID:	SL181271127-EC-3	Well Type:	MONITORING
Source:	EDF	Other Name:	EC-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181271127&assigned_name=EC-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181271127&assigned_name=EC-3		

V207
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000118460**

Well ID:	SL181271127-W-3	Well Type:	MONITORING
Source:	EDF	Other Name:	W-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181271127&assigned_name=W-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181271127&assigned_name=W-3		

V208
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000099708**

Well ID:	SL181271127-EC-2	Well Type:	MONITORING
Source:	EDF	Other Name:	EC-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181271127&assigned_name=EC-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181271127&assigned_name=EC-2		

W209
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000005660**

Well ID:	SL0600144536-DM-3	Well Type:	MONITORING
Source:	EDF	Other Name:	DM-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600144536&assigned_name=DM-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600144536&assigned_name=DM-3		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

W210
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000092243**

Well ID:	SL0600144536-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600144536&assigned_name=MW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600144536&assigned_name=MW-7		

W211
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000093207**

Well ID:	SL0600144536-MW-9	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600144536&assigned_name=MW-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600144536&assigned_name=MW-9		

V212
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000054750**

Well ID:	SL181271127-EC-1	Well Type:	MONITORING
Source:	EDF	Other Name:	EC-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181271127&assigned_name=EC-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181271127&assigned_name=EC-1		

V213
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000000517**

Well ID:	SL181271127-KW-9	Well Type:	MONITORING
Source:	EDF	Other Name:	KW-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181271127&assigned_name=KW-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181271127&assigned_name=KW-9		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
U214 **NNW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000101739**

Well ID:	T0600100542-MW12	Well Type:	MONITORING
Source:	EDF	Other Name:	MW12
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100542&assigned_name=MW12&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100542&assigned_name=MW12		

X215 **NNE** **1/2 - 1 Mile** **Higher**	Site ID:	94538	**AQUIFLOW**	**69549**
	Groundwater Flow:	NW		
	Shallow Water Depth:	29.57		
	Deep Water Depth:	38.82		
	Average Water Depth:	Not Reported		
	Date:	06/25/1998		

	Database	EDR ID Number
T216 **SSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000124993**

Well ID:	SL181261126-MW-24	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-24
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181261126&assigned_name=MW-24&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181261126&assigned_name=MW-24		

Y217 **NW** **1/2 - 1 Mile** **Higher**	Site ID:	194	**AQUIFLOW**	**50260**
	Groundwater Flow:	W		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	15		
	Date:	12/1998		

	Database	EDR ID Number
W218 **NNW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000070426**

Well ID:	SL0600144536-EW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	EW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600144536&assigned_name=EW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600144536&assigned_name=EW-1		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

V219
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000052946**

Well ID:	SL181271127-W-8	Well Type:	MONITORING
Source:	EDF	Other Name:	W-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181271127&assigned_name=W-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181271127&assigned_name=W-8		

Z220
South
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000096697**

Well ID:	SL181261126-MW-21	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-21
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181261126&assigned_name=MW-21&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181261126&assigned_name=MW-21		

W221
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000122368**

Well ID:	SL0600144536-EW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	EW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600144536&assigned_name=EW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600144536&assigned_name=EW-2		

AA222
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000116585**

Well ID:	T0600102073-MW-29	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-29
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102073&assigned_name=MW-29&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102073&assigned_name=MW-29		

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
X223 **NNE** **1/2 - 1 Mile** **Higher**	Site ID:	0229	**AQUIFLOW**	**69520**
	Groundwater Flow:	NW		
	Shallow Water Depth:	29.57		
	Deep Water Depth:	38.82		
	Average Water Depth:	Not Reported		
	Date:	06/25/1998		

T224
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000121664**

Well ID:	SL181261126-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181261126&assigned_name=MW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181261126&assigned_name=MW-7		

Z225
South
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000006092**

Well ID:	SL181261126-MW-20	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-20
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181261126&assigned_name=MW-20&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181261126&assigned_name=MW-20		

V226
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000084833**

Well ID:	SL181271127-W-10	Well Type:	MONITORING
Source:	EDF	Other Name:	W-10
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181271127&assigned_name=W-10&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181271127&assigned_name=W-10		

Map ID Direction Distance Elevation	Database	EDR ID Number

W227
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000139897**

Well ID:	SL0600144536-DM-4	Well Type:	MONITORING
Source:	EDF	Other Name:	DM-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600144536&assigned_name=DM-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600144536&assigned_name=DM-4		

T228
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000113511**

Well ID:	SL181261126-EW-E	Well Type:	MONITORING
Source:	EDF	Other Name:	EW-E
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181261126&assigned_name=EW-E&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181261126&assigned_name=EW-E		

T229
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000036924**

Well ID:	SL181261126-MW-22	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-22
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181261126&assigned_name=MW-22&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181261126&assigned_name=MW-22		

T230
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000126345**

Well ID:	SL181261126-MW-9	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181261126&assigned_name=MW-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181261126&assigned_name=MW-9		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Z231
South
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000089125**

Well ID:	SL181261126-EW-H	Well Type:	MONITORING
Source:	EDF	Other Name:	EW-H
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181261126&assigned_name=EW-H&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181261126&assigned_name=EW-H		

AB232
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000134129**

Well ID:	SL181271127-W-12A	Well Type:	MONITORING
Source:	EDF	Other Name:	W-12A
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181271127&assigned_name=W-12A&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181271127&assigned_name=W-12A		

AC233
SW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000033178**

Well ID:	T0600138629-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600138629&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600138629&assigned_name=MW-3		

W234
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000007863**

Well ID:	SL0600144536-DM-1	Well Type:	MONITORING
Source:	EDF	Other Name:	DM-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL0600144536&assigned_name=DM-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL0600144536&assigned_name=DM-1		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AC235
SW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000115959**

Well ID:	T0600138629-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600138629&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600138629&assigned_name=MW-4		

AC236
SW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000109842**

Well ID:	T0600138629-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600138629&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600138629&assigned_name=MW-1		

AC237
SW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000016718**

Well ID:	T0600138629-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600138629&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600138629&assigned_name=MW-5		

Y238
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000137465**

Well ID:	T0600102073-MW-24	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-24
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102073&assigned_name=MW-24&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102073&assigned_name=MW-24		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AA239
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000032085**

Well ID:	T0600102073-PZ-2	Well Type:	MONITORING
Source:	EDF	Other Name:	PZ-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102073&assigned_name=PZ-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102073&assigned_name=PZ-2		

AA240
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000101191**

Well ID:	T0600102073-MW-22	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-22
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102073&assigned_name=MW-22&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102073&assigned_name=MW-22		

AA241
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000113556**

Well ID:	T0600102073-PZ-1	Well Type:	MONITORING
Source:	EDF	Other Name:	PZ-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102073&assigned_name=PZ-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102073&assigned_name=PZ-1		

AA242
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000035081**

Well ID:	T0600102073-MW-25	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-25
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102073&assigned_name=MW-25&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102073&assigned_name=MW-25		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Z243
South
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000067978**

Well ID:	SL181261126-EW-G	Well Type:	MONITORING
Source:	EDF	Other Name:	EW-G
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181261126&assigned_name=EW-G&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181261126&assigned_name=EW-G		

244
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000082437**

Well ID:	SL181261126-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181261126&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181261126&assigned_name=MW-8		

AB245
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000106725**

Well ID:	SL181271127-W-6	Well Type:	MONITORING
Source:	EDF	Other Name:	W-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=SL181271127&assigned_name=W-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=SL181271127&assigned_name=W-6		

AD246
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000003205**

Well ID:	T0600101019-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101019&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101019&assigned_name=MW-4		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AD247
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000109069**

Well ID:	T0600101019-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101019&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101019&assigned_name=MW-8		

AD248
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000075109**

Well ID:	T0600101019-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101019&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101019&assigned_name=MW-6		

AD249
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000118793**

Well ID:	T0600101019-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101019&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101019&assigned_name=MW-5		

AD250
WSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000120888**

Well ID:	T0600101019-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101019&assigned_name=MW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101019&assigned_name=MW-7		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
1G **NNE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	94538 NW 29.57 38.82 Not Reported 06/25/1998	**AQUIFLOW**	**69549**
2G **NNE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	0229 NW 29.57 38.82 Not Reported 06/25/1998	**AQUIFLOW**	**69520**
3G **NNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	0076 S 21.17 39.05 Not Reported 04/26/1999	**AQUIFLOW**	**69528**
4G **NW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	0150 WSW 23.75 24.09 Not Reported 07/15/1997	**AQUIFLOW**	**69610**
5G **NW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	0299 Varies Not Reported Not Reported 25 06/03/1996	**AQUIFLOW**	**50692**
6G **NW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	194 W Not Reported Not Reported 15 12/1998	**AQUIFLOW**	**50260**
7G **ENE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	0004 N 14.70 34.28 Not Reported 04/15/1994	**AQUIFLOW**	**69613**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
8G **WNW** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	0412 SW 8.46’ 11.28 Not Reported 01/14/1997	**AQUIFLOW**	**69544**
9G **ENE** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	0092 Not Reported 10.37 21.70 Not Reported 05/03/1999	**AQUIFLOW**	**69515**
10G **ENE** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	0037 S 11.25 25.14 Not Reported 12/18/1998	**AQUIFLOW**	**50693**
11G **SSE** **1/8 - 1/4 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	0045 SW 10.44 10.84 Not Reported 05/12/1998	**AQUIFLOW**	**69635**
12G **SE** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	0279 NW 7.35 11.54 Not Reported 03/26/1999	**AQUIFLOW**	**69646**
13G **SW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	0254 SE 4’ 9.9’ Not Reported 01/09/1997	**AQUIFLOW**	**69641**
14G **ESE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	286 Not Reported 12.42 23.92 Not Reported 09/09/1998	**AQUIFLOW**	**50264**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94560	19	0

Federal EPA Radon Zone for ALAMEDA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for ALAMEDA COUNTY, CA

Number of sites tested: 49

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.776 pCi/L	100%	0%	0%
Living Area - 2nd Floor	-0.400 pCi/L	100%	0%	0%
Basement	1.338 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX B

FIRST AMERICAN TITLE COMPANY

Preliminary Title Report

First American Title

First American Title Company
4750 Willow Road, Suite 275
Pleasanton, CA 94588

File No.: 0131-625291ala (ah)

This report has been amended/updated to reflect the following matters:

[X] No changes made to the report other than the Effective Date

[ ] Property address has been revised

[ ] Vesting has been revised

[ ] Legal Description has been revised

[ ] Taxes have been updated

[ ] Original item number(s) have been removed

[ ] New item number(s) have been added

[ ] Original item number(s) have been revised

[ ] Other:

Updated

First American Title

First American Title Company

4750 Willow Road, Suite 275
Pleasanton, CA 94588
California Department of Insurance License No. 151

Escrow Officer:	Tammi Buna
Phone:	(925)201-6674
Fax No.:	(866)648-7806
E-Mail:	TBuna@firstam.com
Title Officer:	Ariane Howell
Phone:	(925)738-4040
Fax No.:	(925)738-4041
E-Mail:	arhowell@firstam.com
E-Mail Loan Documents to:	Lenders please contact the Escrow Officer for email address for sending loan documents.
Buyer:	Waymark Development LLC
Owner:	Ohana Land Company LLC
Property:	38600 Cedar Boulevard, & 38683 Timber Street Newark, CA 94560

PRELIMINARY REPORT

In response to the above referenced application for a policy of title insurance, this company hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a Policy or Policies of Title Insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an Exception below or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations of said Policy forms.

The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said policy or policies are set forth in Exhibit A attached. *The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties*. Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Exhibit A. Copies of the policy forms should be read. They are available from the office which issued this report.

Please read the exceptions shown or referred to below and the exceptions and exclusions set forth in Exhibit A of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.

It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects, and encumbrances affecting title to the land.

Please be advised that any provision contained in this document, or in a document that is attached, linked or referenced in this document, that under applicable law illegally discriminates against a class of individuals based

upon personal characteristics such as race, color, religion, sex, sexual orientation, gender identity, familial status, disability, national origin, or any other legally protected class, is illegal and unenforceable by law.

This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.

Dated as of March 18, 2022 at 7:30 A.M.

The form of Policy of title insurance contemplated by this report is:

ALTA Extended Loan Policy - 2006

ALTA Extended Owner Policy - 2006

A specific request should be made if another form or additional coverage is desired.

Title to said estate or interest at the date hereof is vested in:

OHANA LAND COMPANY, LLC

The estate or interest in the land hereinafter described or referred to covered by this Report is:

A fee.

The Land referred to herein is described as follows:

(See attached Legal Description)

At the date hereof exceptions to coverage in addition to the printed Exceptions and Exclusions in said policy form would be as follows:

1. General and special taxes and assessments for the fiscal year 2022-2023, a lien not yet due or payable.

2. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.

3. An easement for water lines, sanitary sewers, natural gas lines, electrical lines and incidental purposes, recorded October 14, 1969 as Book/Reel 2495, Page/Image 540 of Official Records.
   In Favor of: City of Newark, a municipal corporation, in Resolution No. 1786, abandoning portions of Moores Avenue and Timber Street
   Affects: Parcel 1

4. An easement for right at any time, and from time to time, to excavate for, install, replace (of the initial or any other size), maintain and use such pipe lines as second party shall from time to time elect for conveying gas, oil, petroleum products, or any other liquids, gases, or substances which can be transported through a pipe line, with necessary and proper valves and other appliances and fittings, and devices for controlling electrolysis for use in connection with said pipe lines, together with adequate protection and incidental purposes, recorded November 29, 1979 as Instrument No. 1979-242804 of Official Records.
   In Favor of: Pacific Gas and Electric Company, a California corporation
   Affects: As described therein

5. An easement for right to construct and maintain traffic signal equipment, detection loops and their appurtenances and incidental purposes, recorded April 17, 1985 as Instrument No. 1985-075172 of Official Records.
   In Favor of: City of Newark, a municipal corporation
   Affects: As described therein

6. An easement for landscape planting and irrigation and incidental purposes, recorded September 20, 1990 as Instrument No. 1990-251114 of Official Records.
   In Favor of: City of Newark, a municipal corporation
   Affects: As described therein

7. The terms, provisions and easement(s) contained in the document entitled "Landscape Maintenance Agreement" recorded April 1, 2003 as Instrument No. 2003-190703 of Official Records.

   The location of the easement cannot be determined from record information.

8. The fact that the land lies within the boundaries of the Newark Redevelopment Project No. 2, as disclosed by various documents of record.

9. Rights of the public in and to that portion of the Land lying within any Road, Street, Alley or Highway.

10. Water rights, claims or title to water, whether or not shown by the Public Records.

11. Any facts, rights, interests or claims which would be disclosed by a correct ALTA/NSPS survey.

12. Rights of parties in possession.

Prior to the issuance of any policy of title insurance, the Company will require:

13. With respect to OHANA LAND COMPANY, LLC, a California limited liability company:
a. A copy of its operating agreement and any amendments thereto;
b. If it is a California limited liability company, that a certified copy of its articles of organization (LLC-1) and any certificate of correction (LLC-11), certificate of amendment (LLC-2), or restatement of articles of organization (LLC-10) be recorded in the public records;
c. If it is a foreign limited liability company, that a certified copy of its application for registration (LLC-5) be recorded in the public records;
d. With respect to any deed, deed of trust, lease, subordination agreement or other document or instrument executed by such limited liability company and presented for recordation by the Company or upon which the Company is asked to rely, that such document or instrument be executed in accordance with one of the following, as appropriate:
(i) If the limited liability company properly operates through officers appointed or elected pursuant to the terms of a written operating agreement, such document must be executed by at least two duly elected or appointed officers, as follows: the chairman of the board, the president or any vice president, and any secretary, assistant secretary, the chief financial officer or any assistant treasurer;
(ii) If the limited liability company properly operates through a manager or managers identified in the articles of organization and/or duly elected pursuant to the terms of a written operating agreement, such document must be executed by at least two such managers or by one manager if the limited liability company properly operates with the existence of only one manager.
e. Other requirements which the Company may impose following its review of the material required herein and other information which the Company may require

14. An ALTA/NSPS survey of recent date which complies with the current minimum standard detail requirements for ALTA/NSPS land title surveys.

INFORMATIONAL NOTES

Note: The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than the certain dollar amount set forth in any applicable arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. If you desire to review the terms of the policy, including any arbitration clause that may be included, contact the office that issued this Commitment or Report to obtain a sample of the policy jacket for the policy that is to be issued in connection with your transaction.

1. General and special taxes and assessments for the fiscal year 2021-2022.

First Installment:	$4,937.25, PAID
Penalty:	$0.00
Second Installment:	$4,937.25, PAID
Penalty:	$0.00
Tax Rate Area:	11-045
A. P. No.:	092A-2585-031

   Affects: Parcel 1

2. General and special taxes and assessments for the fiscal year 2021-2022.

First Installment:	$2,821.91, PAID
Penalty:	$0.00
Second Installment:	$2,821.91, PAID
Penalty:	$0.00
Tax Rate Area:	11-046
A. P. No.:	092A-2585-012-01

   Affects: Parcel 2

3. According to the latest available equalized assessment roll in the office of the county tax assessor, there is located on the land a(n) COMMERCIAL STRUCTURE known as 38683 TIMBER STREET, NEWARK, CALIFORNIA.

   Affects: Parcel 1

4. According to the latest available equalized assessment roll in the office of the county tax assessor, there is located on the land a(n) COMMERCIAL STRUCTURE known as 38600 CEDAR BOULEVARD, NEWARK, CALIFORNIA.

   Affects: Parcel 2

5. According to the public records, there has been no conveyance of the land within a period of twenty-four months prior to the date of this report, except as follows:

   None

6. We find no outstanding voluntary liens of record affecting subject property. Disclosure should be made concerning the existence of any unrecorded lien or other indebtedness which could give rise to any possible security interest in the subject property.

The map attached, if any, may or may not be a survey of the land depicted hereon. First American expressly disclaims any liability for loss or damage which may result from reliance on this map except to the extent coverage for such loss or damage is expressly provided by the terms and provisions of the title insurance policy, if any, to which this map is attached.

LEGAL DESCRIPTION

Real property in the City of Newark , County of Alameda, State of California, described as follows:

PARCEL 1:

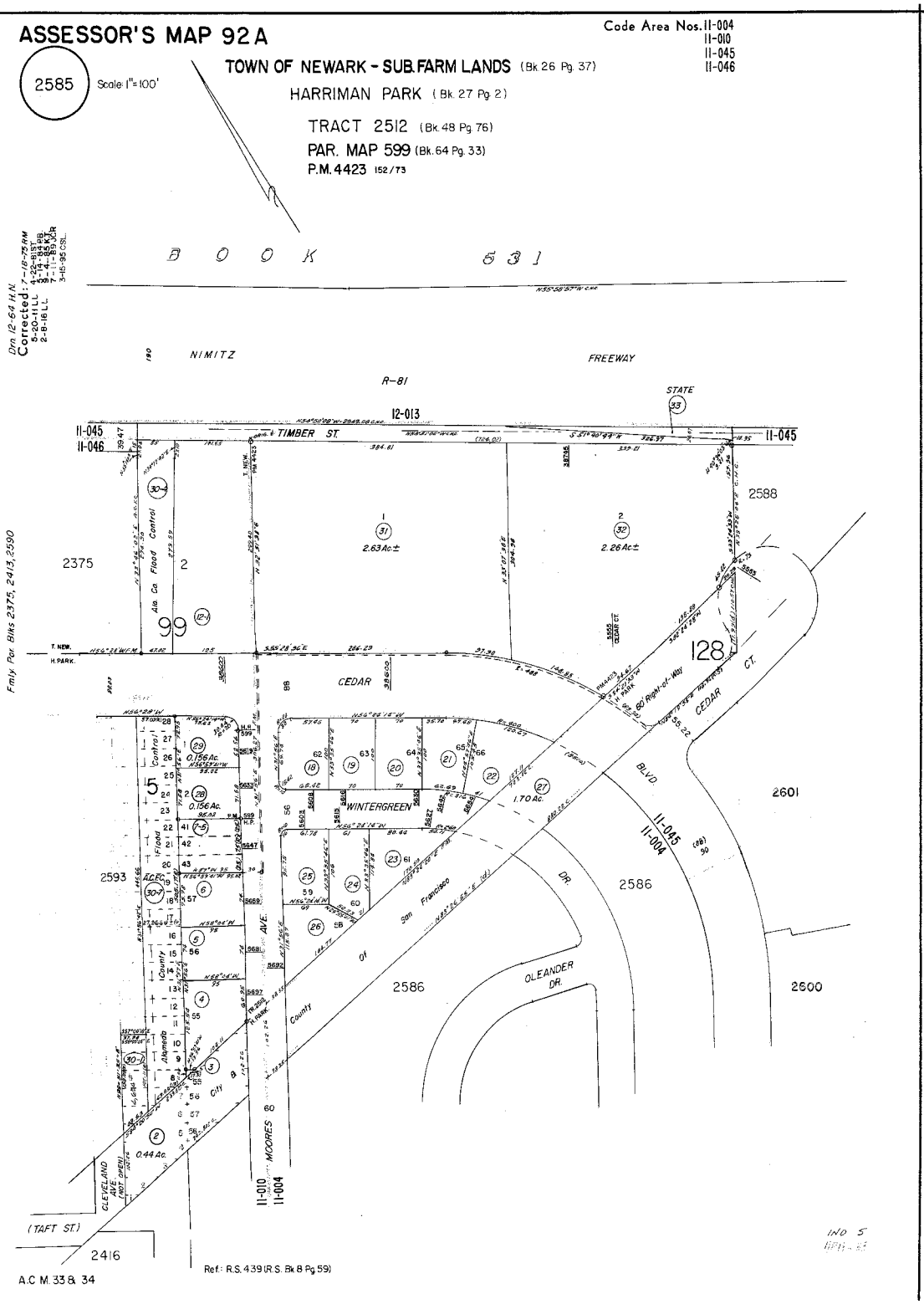
PARCEL 1 OF PARCEL MAP 4423, PER MAP FILED MARCH 27, 1985, IN BOOK 152 OF PARCEL MAPS, PAGE 73, ALAMEDA COUNTY RECORDS.

PARCEL 2:

A PORTION OF LOT 2, BLOCK 99, MAP SHOWING THE SUBDIVISION OF A PART OF THE FARM LANDS OF THE TOWN OF NEWARK, FILED JULY 15, 1911, IN MAP BOOK 26, PAGE 37, ALAMEDA COUNTY RECORDS DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE CENTER LINE OF CEDAR ROAD WITH THE CENTER LINE OF THE MOORES AVENUE, AS SHOWN ON SAID MAP; AND RUNNING THENCE ALONG SAID CENTER LINE OF CEDAR ROAD NORTH 55° 46' WEST 111.65 FEET; THENCE ALONG THE SOUTHEASTERN LINE OF THE PARCEL OF LAND DESCRIBED IN THE DEED TO ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, RECORDED NOVEMBER 12, 1957, IN BOOK 8517 OF OFFICIAL RECORDS OF ALAMEDA COUNTY, PAGE 377 (AM/111925) SOUTH 34° 17' 42" WEST 27.10 FEET AND SOUTH 34° 29' 46" WEST 273.59 FEET TO THE SOUTHWESTERN LINE OF SAID LOT 2; THENCE ALONG LAST SAID LINE SOUTH 56° 28' EAST 124.87 FEET TO SAID CENTER LINE OF MOORES AVENUE; THENCE ALONG LAST SAID LINE NORTHEASTERLY 299.40 FEET TO THE POINT OF BEGINNING.

APN(S): 092A-2585-031 (PARCEL 1) AND 092A-2585-012-01 (PARCEL 2)


ASSESSOR'S MAP 92A
Code Area Nos. 11-004
11-010
11-045
11-046
2585
Scale: 1"=100'
TOWN OF NEWARK - SUB. FARM LANDS (Bk. 26 Pg. 37)
HARRIMAN PARK (Bk. 27 Pg. 2)
TRACT 2512 (Bk. 48 Pg. 76)
PAR. MAP 599 (Bk. 64 Pg. 33)
P.M. 4423 152/73
BOOK 531
Drn. 12-64 H.N.
Corrected: 7-18-75 AM
5-20-11 LL
2-8-16 LL
NIMITZ
FREEWAY
R-81
STATE
TIMBER ST.
11-045
11-046
12-013
2588
2375
2593
2586
2601
2600
2416
2.63 Ac±
2.26 Ac±
0.156 Ac.
0.156 Ac.
0.44 Ac.
1.70 Ac.
CEDAR
CEDAR BLVD
CEDAR CT.
WINTERGREEN
DR.
OLEANDER DR.
MOORES
CLEVELAND AVE
(TAFT ST.)
Alameda County Flood Control
San Francisco Bay
City of Newark
A.C.M. 33 & 34
Ref: R.S. 439 (R.S. Bk. 8 Pg. 59)
Fmly. Por. Blks 2375, 2413, 2590

NOTICE

Section 12413.1 of the California Insurance Code, effective January 1, 1990, requires that any title insurance company, underwritten title company, or controlled escrow company handling funds in an escrow or sub-escrow capacity, wait a specified number of days after depositing funds, before recording any documents in connection with the transaction or disbursing funds. This statute allows for funds deposited by wire transfer to be disbursed the same day as deposit. In the case of cashier's checks or certified checks, funds may be disbursed the next day after deposit. In order to avoid unnecessary delays of three to seven days, or more, please use wire transfer, cashier's checks, or certified checks whenever possible.

EXHIBIT A
LIST OF PRINTED EXCEPTIONS AND EXCLUSIONS (BY POLICY TYPE)

CLTA STANDARD COVERAGE POLICY – 1990
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building or zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien, or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
   (c) resulting in no loss or damage to the insured claimant;
   (d) attaching or created subsequent to Date of Policy; or
   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate of interest insured by this policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

EXCEPTIONS FROM COVERAGE - SCHEDULE B, PART I

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
   Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public, records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.
6. Any lien or right to a lien for services, labor or material unless such lien is shown by the public records at Date of Policy.

CLTA/ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE (12-02-13)
EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:
   a. building;
   b. zoning;
   c. land use;

d. improvements on the Land;
e. land division; and
f. environmental protection.
This Exclusion does not limit the coverage described in Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23 or 27.

2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
4. Risks:
   a. that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
   b. that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;
   c. that result in no loss to You; or
   d. that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.e., 25, 26, 27 or 28.
5. Failure to pay value for Your Title.
6. Lack of a right:
   a. to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
   b. in streets, alleys, or waterways that touch the Land.
   This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
7. The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.
8. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
9. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

LIMITATIONS ON COVERED RISKS

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows:
For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.
The deductible amounts and maximum dollar limits shown on Schedule A are as follows:

	Your Deductible Amount	Our Maximum Dollar Limit of Liability
Covered Risk 16:	1% of Policy Amount Shown in Schedule A or $2,500 (whichever is less)	$10,000
Covered Risk 18:	1% of Policy Amount Shown in Schedule A or $5,000 (whichever is less)	$25,000
Covered Risk 19:	1% of Policy Amount Shown in Schedule A or $5,000 (whichever is less)	$25,000
Covered Risk 21:	1% of Policy Amount Shown in Schedule A or $2,500 (whichever is less)	$5,000

2006 ALTA LOAN POLICY (06-17-06)
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to

   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;

   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;

(c) resulting in no loss or damage to the Insured Claimant;
(d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or
(e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.

4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
(a) a fraudulent conveyance or fraudulent transfer, or
(b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

[Except as provided in Schedule B - Part II,[t[or T]his policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:

[PART I

[The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material unless such lien is shown by the Public Records at Date of Policy.

PART II

In addition to the matters set forth in Part I of this Schedule, the Title is subject to the following matters, and the Company insures against loss or damage sustained in the event that they are not subordinate to the lien of the Insured Mortgage:]

2006 ALTA OWNER'S POLICY (06-17-06)
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to

(i) the occupancy, use, or enjoyment of the Land;
(ii) the character, dimensions, or location of any improvement erected on the Land;
(iii) the subdivision of land; or
(iv) environmental protection;

or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
(b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
(a) created, suffered, assumed, or agreed to by the Insured Claimant;
(b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;

(c) resulting in no loss or damage to the Insured Claimant;
(d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 or 10); or
(e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.

4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the Title as shown in Schedule A, is
(a) a fraudulent conveyance or fraudulent transfer, or
(b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.
5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:
[The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material unless such lien is shown by the Public Records at Date of Policy.
7. [Variable exceptions such as taxes, easements, CC&R's, etc. shown here.]

ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (07-26-10)
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to

(i) the occupancy, use, or enjoyment of the Land;
(ii) the character, dimensions, or location of any improvement erected on the Land;
(iii) the subdivision of land; or
(iv) environmental protection;

or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
(b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
(a) created, suffered, assumed, or agreed to by the Insured Claimant;
(b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
(c) resulting in no loss or damage to the Insured Claimant;
(d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
(e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the

Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.

7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.
9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   (a) a fraudulent conveyance or fraudulent transfer, or
   (b) a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.
10. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
11. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

First American Title™

Privacy Notice

Effective: October 1, 2019

Notice Last Updated: January 1, 2022

This Privacy Notice describes how First American Financial Corporation and its subsidiaries and affiliates (together referred to as "First American," "we," "us," or "our") collect, use, store, and share your information with the exception that a subsidiary or affiliate has their own privacy policy, that policy governs. This Privacy Notice applies to information we receive from you offline only, as well as from third parties, when you interact with us and/or use and access our services and products ("Products"). For more information about our privacy practices, including our online practices, please visit https://www.firstam.com/privacy-policy/. The practices described in this Privacy Notice are subject to applicable laws in the places in which we operate.

What Type Of Information Do We Collect About You? We collect a variety of categories of information about you. To learn more about the categories of information we collect, please visit https://www.firstam.com/privacy-policy/.

How Do We Collect Your Information? We collect your information: (1) directly from you; (2) automatically when you interact with us; and (3) from third parties, including business parties and affiliates.

How Do We Use Your Information? We may use your information in a variety of ways, including but not limited to providing the services you have requested, fulfilling your transactions, comply with relevant laws and our policies, and handling a claim. To learn more about how we may use your information, please visit https://www.firstam.com/privacy-policy/.

How Do We Share Your Information? We do not sell your personal information. We only share your information, including to subsidiaries, affiliates, and to unaffiliated third parties: (1) with your consent; (2) in a business transfer; (3) to service providers; and (4) for legal process and protection. To learn more about how we share your information, please visit https://www.firstam.com/privacy-policy/.

How Do We Store and Protect Your Information? The security of your information is important to us. That is why we take commercially reasonable steps to make sure your information is protected. We use our best efforts to maintain commercially reasonable technical, organizational, and physical safeguards, consistent with applicable law, to protect your information.

How Long Do We Keep Your Information? We keep your information for as long as necessary in accordance with the purpose for which it was collected, our business needs, and our legal and regulatory obligations.

Your Choices We provide you the ability to exercise certain controls and choices regarding our collection, use, storage, and sharing of your information. You can learn more about your choices by visiting https://www.firstam.com/privacy-policy/.

International Jurisdictions: Our Products are offered in the United States of America (US), and are subject to US federal, state, and local law. If you are accessing the Products from another country, please be advised that you may be transferring your information to us in the US, and you consent to that transfer and use of your information in accordance with this Privacy Notice. You also agree to abide by the applicable laws of applicable US federal, state, and local laws concerning your use of the Products, and your agreements with us.

We may change this Privacy Notice from time to time. Any and all changes to this Privacy Notice will be reflected on this page, and where appropriate provided in person or by another electronic method. YOUR CONTINUED USE, ACCESS, OR INTERACTION WITH OUR PRODUCTS OR YOUR CONTINUED COMMUNICATIONS WITH US AFTER THIS NOTICE HAS BEEN PROVIDED TO YOU WILL REPRESENT THAT YOU HAVE READ AND UNDERSTOOD THIS PRIVACY NOTICE.

Contact Us dataprivacy@firstam.com or toll free at 1-866-718-0097.

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For California Residents

If you are a California resident, you may have certain rights under California law, including but not limited to the California Consumer Privacy Act of 2018 ("CCPA"). All phrases used in this section shall have the same meaning as those phrases are used under California law, including the CCPA.

Right to Know. You have a right to request that we disclose the following information to you: (1) the categories of personal information we have collected about or from you; (2) the categories of sources from which the personal information was collected; (3) the business or commercial purpose for such collection and/or disclosure; (4) the categories of third parties with whom we have shared your personal information; and (5) the specific pieces of your personal information we have collected. To submit a verified request for this information, go to our online privacy policy at www.firstam.com/privacy-policy to submit your request or call toll-free at 1-866-718-0097. You may also designate an authorized agent to submit a request on your behalf by going to our online privacy policy at www.firstam.com/privacy-policy to submit your request or by calling toll-free at 1-866-718-0097

Right of Deletion. You also have a right to request that we delete the personal information we have collected from and about you. This right is subject to certain exceptions available under the CCPA and other applicable law. To submit a verified request for deletion, go to our online privacy policy at www.firstam.com/privacy-policy to submit your request or call toll-free at 1-866-718-0097. You may also designate an authorized agent to submit a request on your behalf by going to our online privacy policy at www.firstam.com/privacy-policy to submit your request or by calling toll-free at 1-866-718-0097.

Verification Process. For either a request to know or delete, we will verify your identity before responding to your request. To verify your identity, we will generally match the identifying information provided in your request with the information we have on file about you. Depending on the sensitivity of the information requested, we may also utilize more stringent verification methods to verify your identity, including but not limited to requesting additional information from you and/or requiring you to sign a declaration under penalty of perjury.

Notice of Sale. We do not sell California resident information, nor have we sold California resident information in the past 12 months. To the extent any First American affiliated entity has a different practice, it will be stated in the applicable privacy policy. We have no actual knowledge of selling the information of minors under the age of 16.

Right of Non-Discrimination. You have a right to exercise your rights under California law, including under the CCPA, without suffering discrimination. Accordingly, First American will not discriminate against you in any way if you choose to exercise your rights under the CCPA.

Notice of Collection. To learn more about the categories of personal information we have collected about California residents over the last 12 months, please see "What Information Do We Collect About You" in https://www.firstam.com/privacy-policy. To learn about the sources from which we have collected that information, the business and commercial purpose for its collection, and the categories of third parties with whom we have shared that information, please see "How Do We Collect Your Information", "How Do We Use Your Information", and "How Do We Share Your Information" in https://www.firstam.com/privacy-policy.

Notice of Sale. We have not sold the personal information of California residents in the past 12 months.

Notice of Disclosure. To learn more about the categories of personal information we may have disclosed about California residents in the past 12 months, please see "How Do We Use Your Information" and "How Do We Share Your Information" in https://www.firstam.com/privacy-policy.

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APPENDIX C

ENVIRONMENTAL DATA RESOURCES, INC.

Historical Topographic Map Report

38600 Cedar Blvd

38600 Cedar Blvd

Newark, CA 94560

Inquiry Number: 6923688.4

April 01, 2022

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

04/01/22

Site Name:	Client Name:
38600 Cedar Blvd	Engeo Inc.
38600 Cedar Blvd	2010 Crow Canyon Place
Newark, CA 94560	San Ramon, CA 94583
EDR Inquiry # 6923688.4	Contact: Divya Bhargava

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Engeo Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	15799.003.000	**Latitude:**	37.532095 37° 31' 56" North
Project:	38600 Cedar Blvd	**Longitude:**	-122.008076 -122° 0' 29" West
		UTM Zone:	Zone 10 North
		UTM X Meters:	587639.84
		UTM Y Meters:	4154364.24
		Elevation:	28.92' above sea level

Maps Provided:

2018	1959, 1961
2015	1953
2012	1948
1997	1947
1996	1941
1980	1915
1973	1906
1968	1899

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2018 Source Sheets



Newark
2018
7.5-minute, 24000



Niles
2018
7.5-minute, 24000

2015 Source Sheets



Newark
2015
7.5-minute, 24000



Niles
2015
7.5-minute, 24000

2012 Source Sheets



Newark
2012
7.5-minute, 24000



Niles
2012
7.5-minute, 24000

1997 Source Sheets

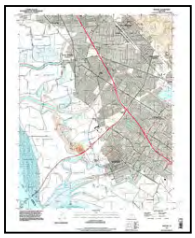


Newark
1997
7.5-minute, 24000
Aerial Photo Revised 1997

Topo Sheet Key

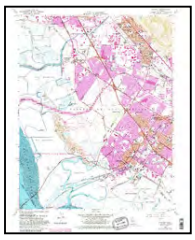
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1996 Source Sheets



Newark
1996
7.5-minute, 24000
Aerial Photo Revised 1993

1980 Source Sheets



Newark
1980
7.5-minute, 24000
Aerial Photo Revised 1979



Niles
1980
7.5-minute, 24000
Aerial Photo Revised 1978

1973 Source Sheets

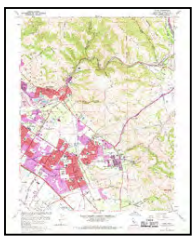


Niles
1973
7.5-minute, 24000
Aerial Photo Revised 1973



Newark
1973
7.5-minute, 24000
Aerial Photo Revised 1973

1968 Source Sheets



Niles
1968
7.5-minute, 24000
Aerial Photo Revised 1968

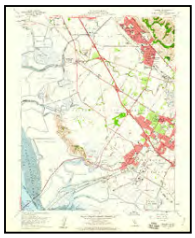


Newark
1968
7.5-minute, 24000
Aerial Photo Revised 1968

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1959, 1961 Source Sheets



Newark
1959
7.5-minute, 24000
Aerial Photo Revised 1958



Niles
1961
7.5-minute, 24000
Aerial Photo Revised 1960

1953 Source Sheets



Niles
1953
7.5-minute, 24000
Aerial Photo Revised 1948

1948 Source Sheets



Newark
1948
7.5-minute, 24000
Aerial Photo Revised 1946

1947 Source Sheets



Newark
1947
7.5-minute, 24000
Aerial Photo Revised 1946

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1941 Source Sheets



Pleasanton
1941
15-minute, 62500
Aerial Photo Revised 1937

1915 Source Sheets

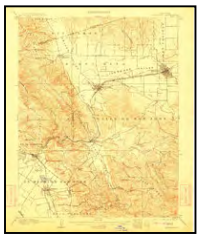


Haywards
1915
15-minute, 62500



Hayward
1915
15-minute, 62500

1906 Source Sheets

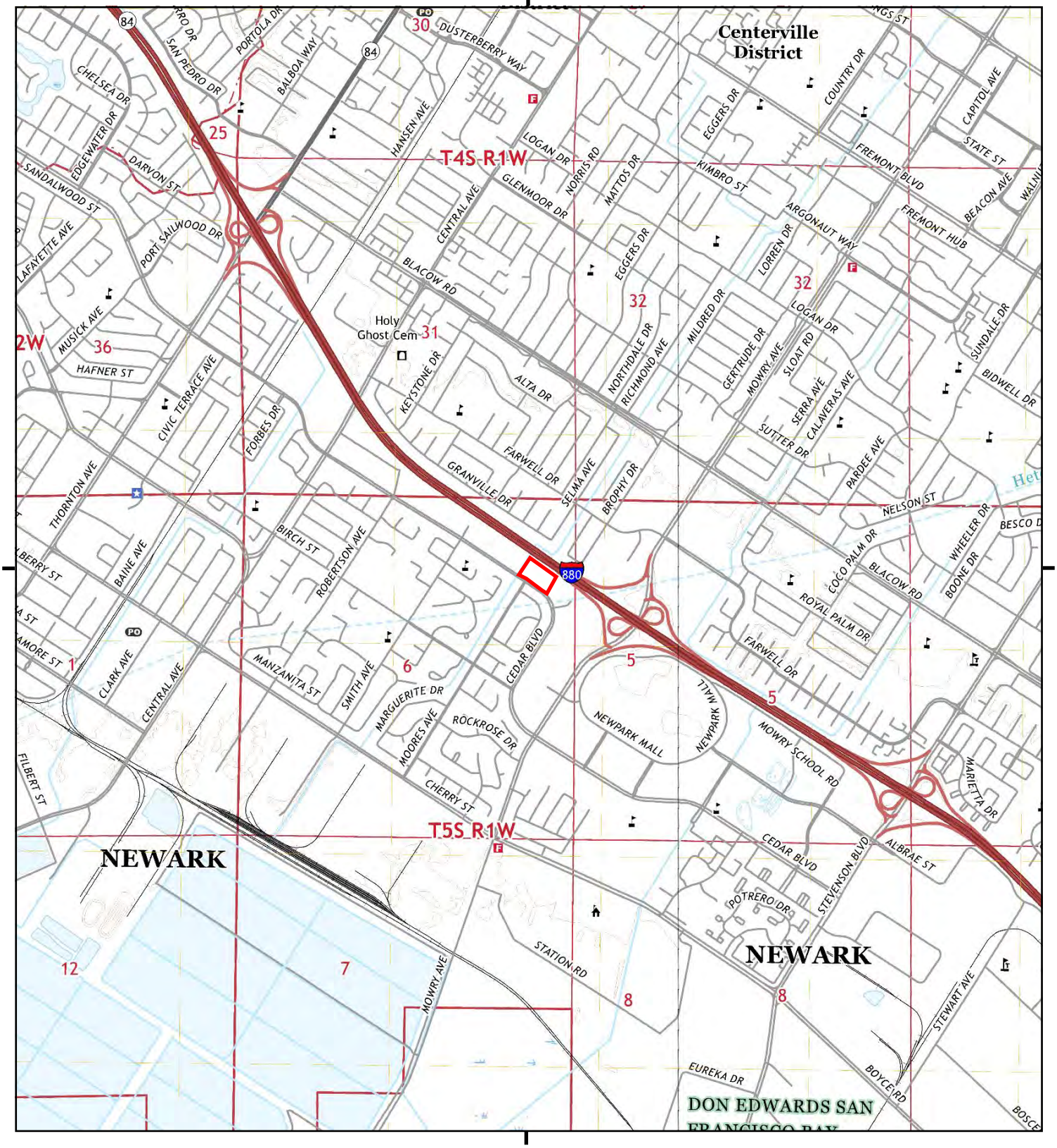


Pleasanton
1906
15-minute, 62500

1899 Source Sheets

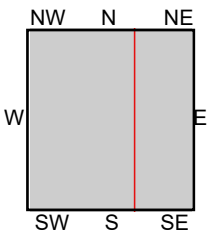


Haywards
1899
15-minute, 62500



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

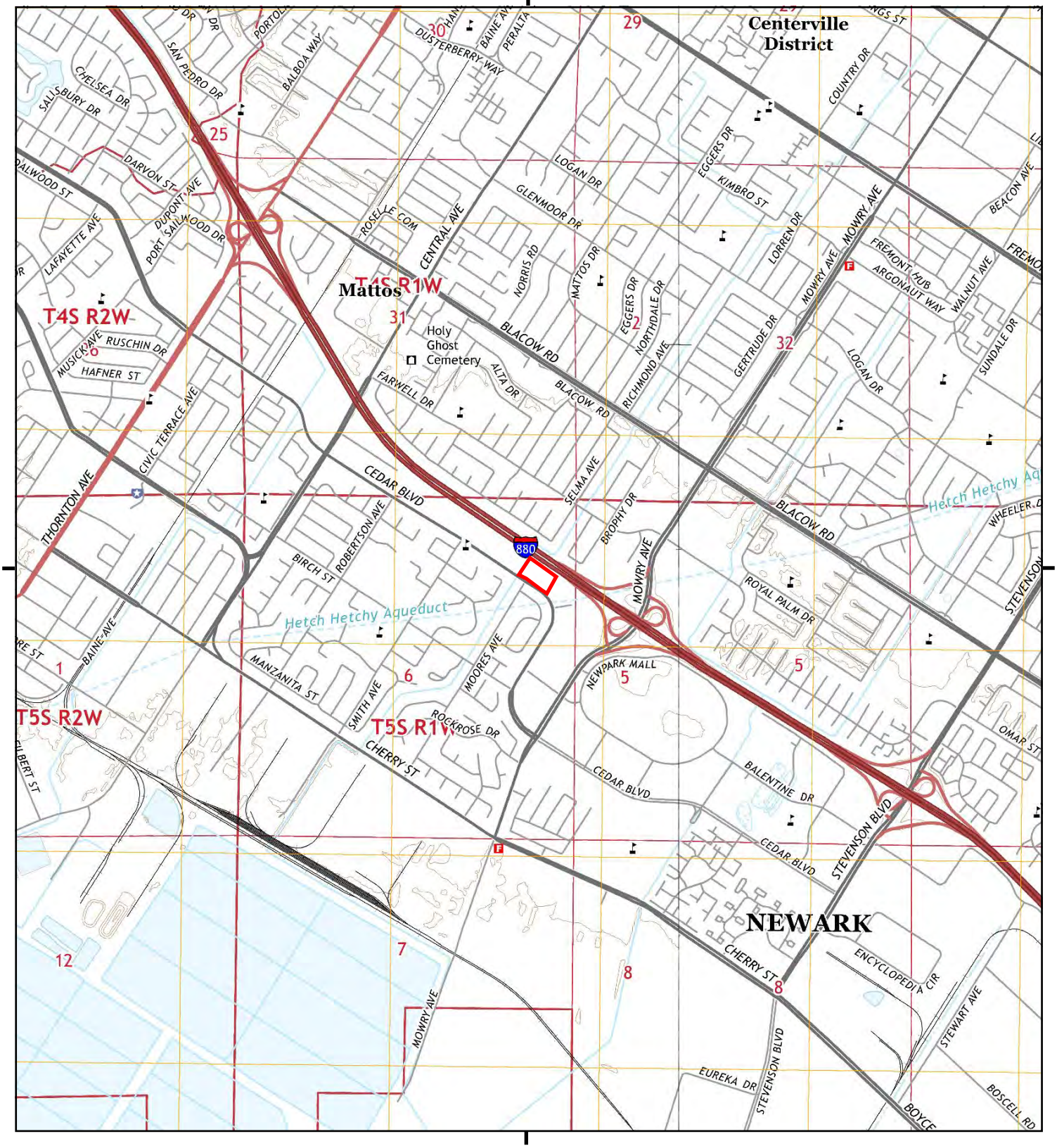


TP, Newark, 2018, 7.5-minute
NE, Niles, 2018, 7.5-minute

SITE NAME: 38600 Cedar Blvd
ADDRESS: 38600 Cedar Blvd
Newark, CA 94560
CLIENT: Engeo Inc.

Historical Topo Map

2015



This report includes information from the following map sheet(s).

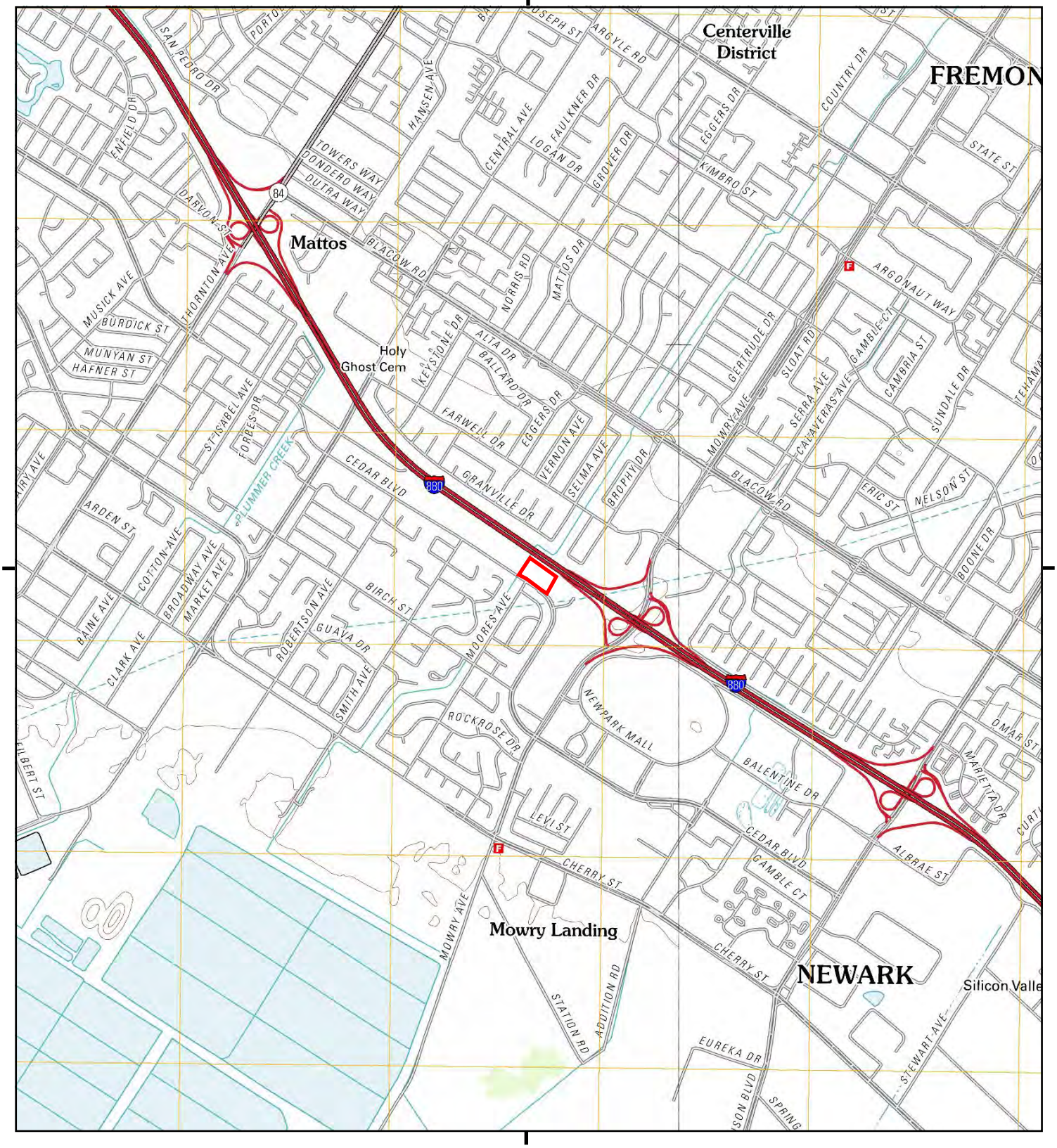
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newark, 2015, 7.5-minute
NE, Niles, 2015, 7.5-minute

SITE NAME: 38600 Cedar Blvd
ADDRESS: 38600 Cedar Blvd
Newark, CA 94560
CLIENT: Engeo Inc.

N



This report includes information from the following map sheet(s).

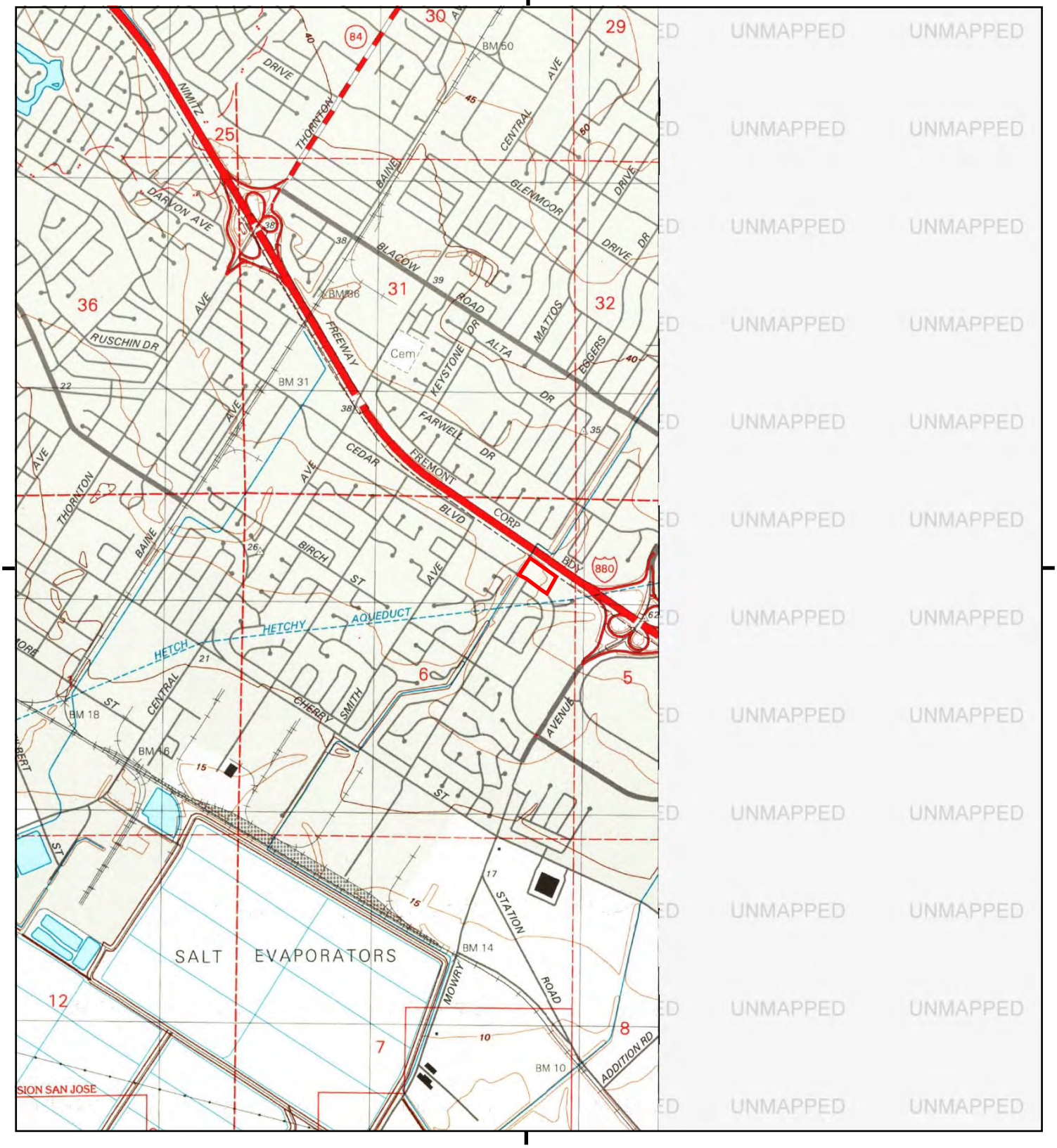
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newark, 2012, 7.5-minute
NE, Niles, 2012, 7.5-minute

SITE NAME: 38600 Cedar Blvd
ADDRESS: 38600 Cedar Blvd
Newark, CA 94560
CLIENT: Engeo Inc.

N



This report includes information from the following map sheet(s).

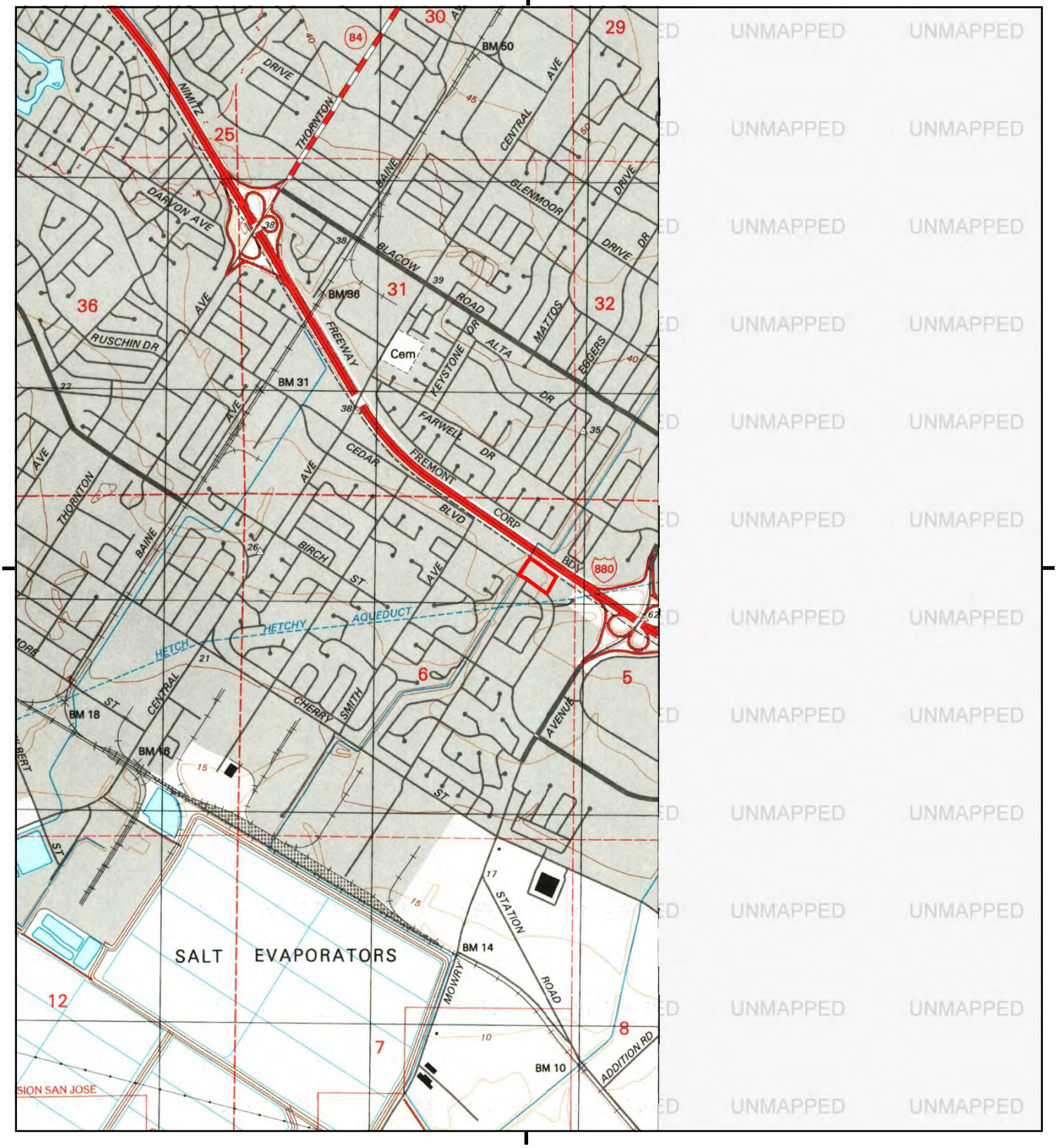
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newark, 1997, 7.5-minute

SITE NAME: 38600 Cedar Blvd
ADDRESS: 38600 Cedar Blvd
Newark, CA 94560
CLIENT: Engeo Inc.

N



This report includes information from the following map sheet(s).

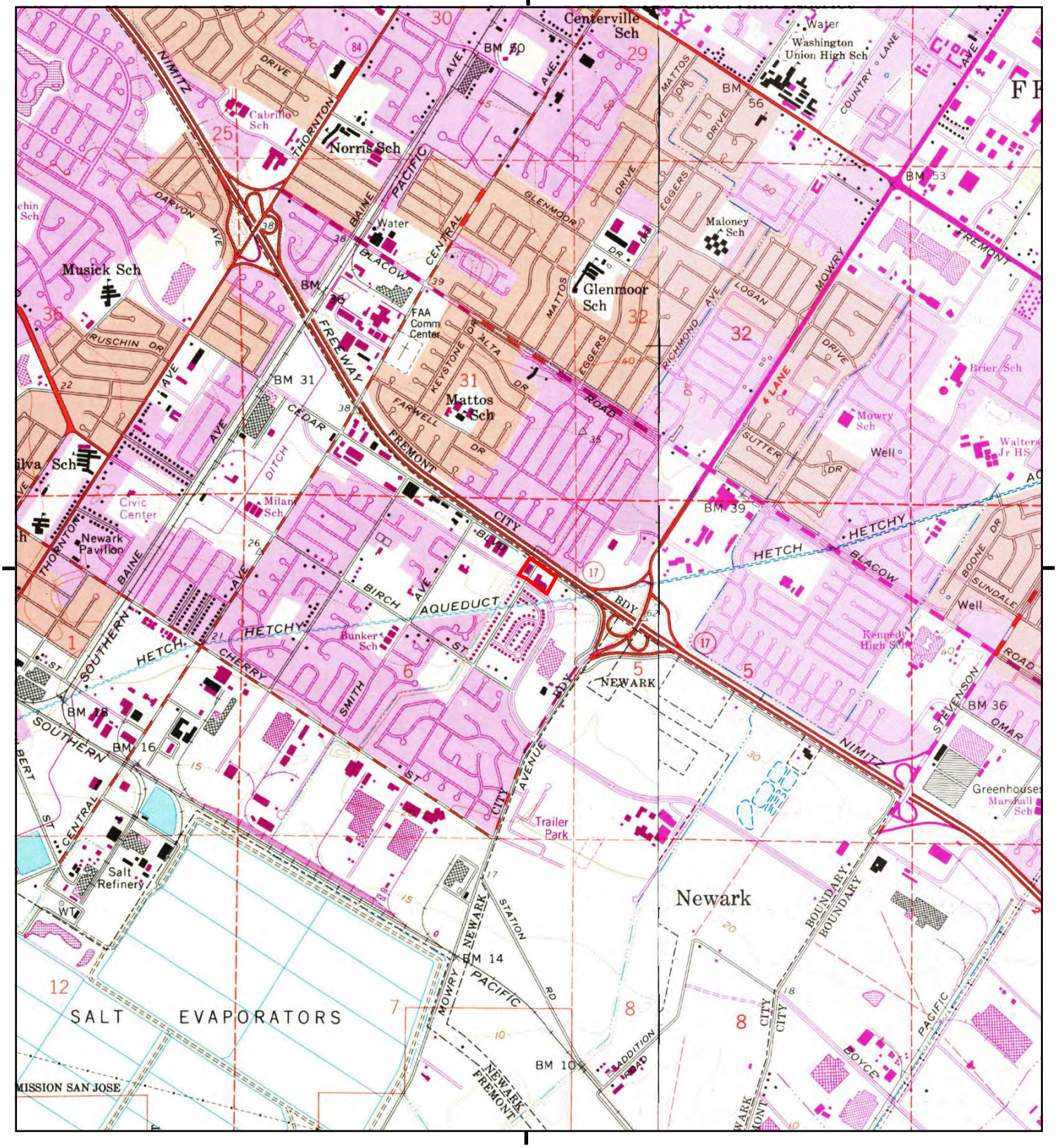
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newark, 1996, 7.5-minute

SITE NAME: 38600 Cedar Blvd
ADDRESS: 38600 Cedar Blvd
Newark, CA 94560
CLIENT: Engeo Inc.

N



This report includes information from the following map sheet(s).

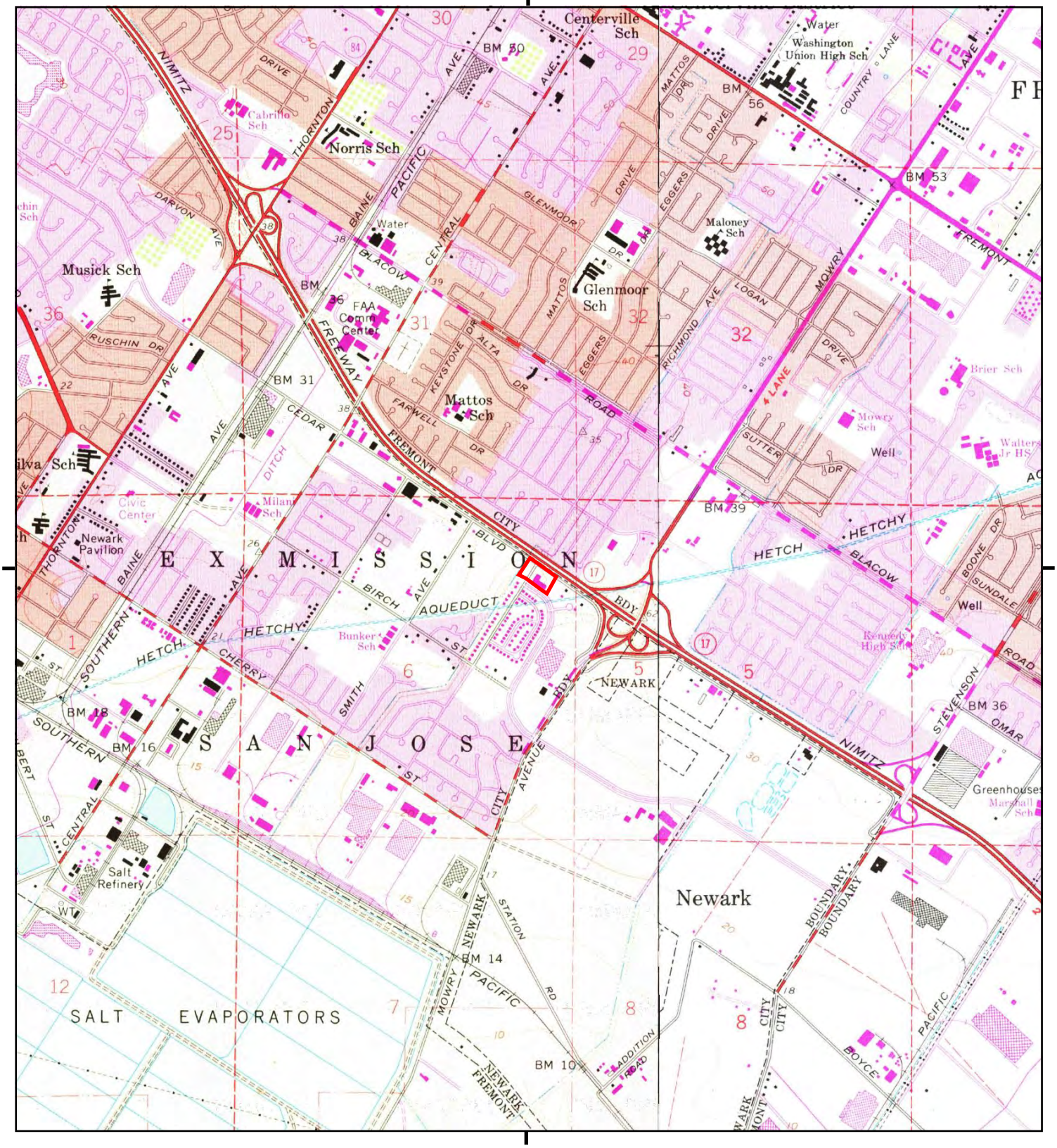
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newark, 1980, 7.5-minute
NE, Niles, 1980, 7.5-minute

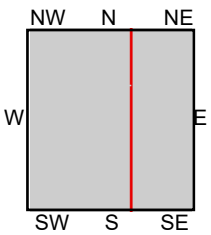
SITE NAME: 38600 Cedar Blvd
ADDRESS: 38600 Cedar Blvd
Newark, CA 94560
CLIENT: Engeo Inc.

N



This report includes information from the following map sheet(s).

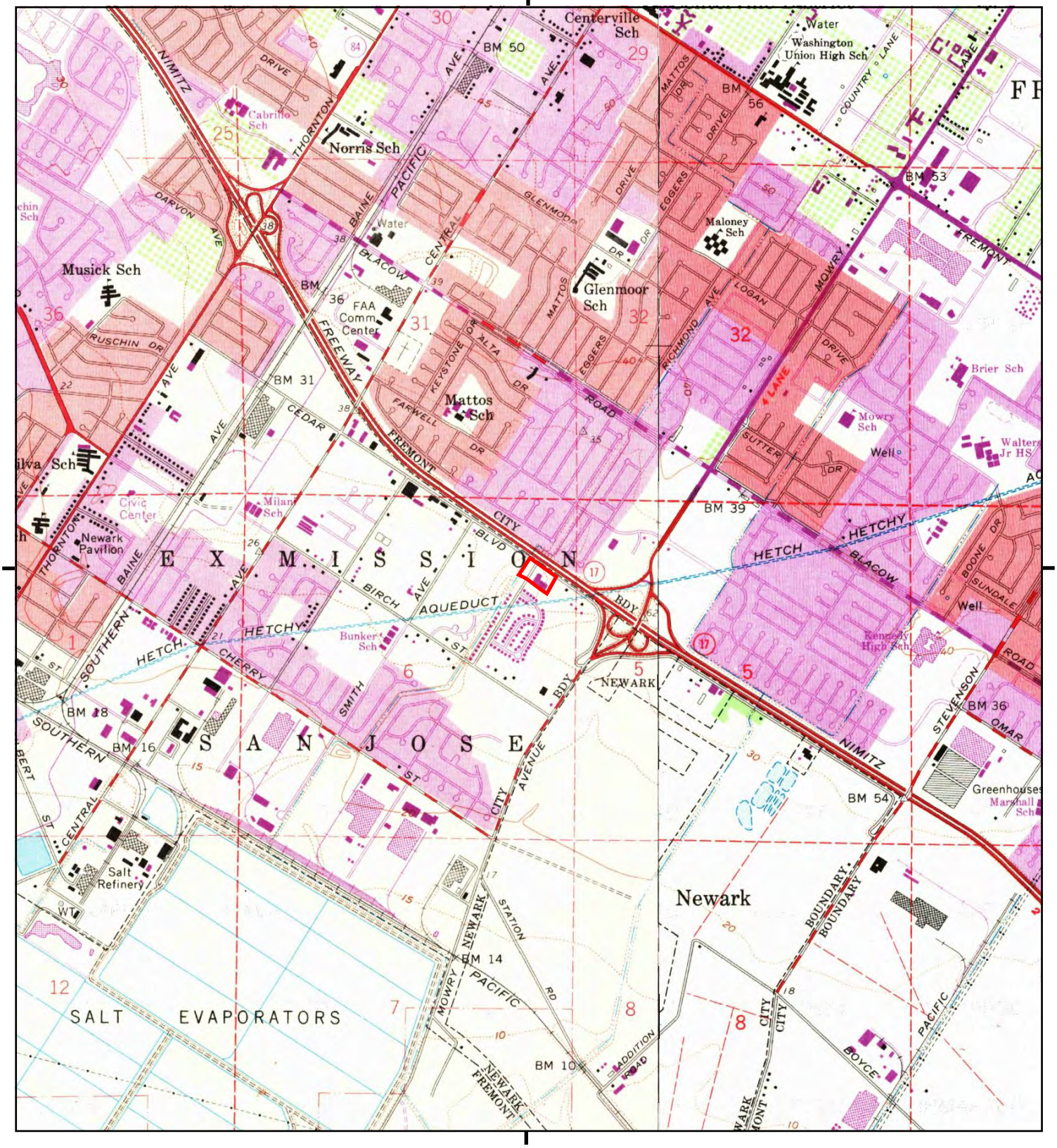
0 Miles 0.25 0.5 1 1.5



TP, Newark, 1973, 7.5-minute
NE, Niles, 1973, 7.5-minute

SITE NAME: 38600 Cedar Blvd
ADDRESS: 38600 Cedar Blvd
Newark, CA 94560
CLIENT: Engeo Inc.

N



This report includes information from the following map sheet(s).

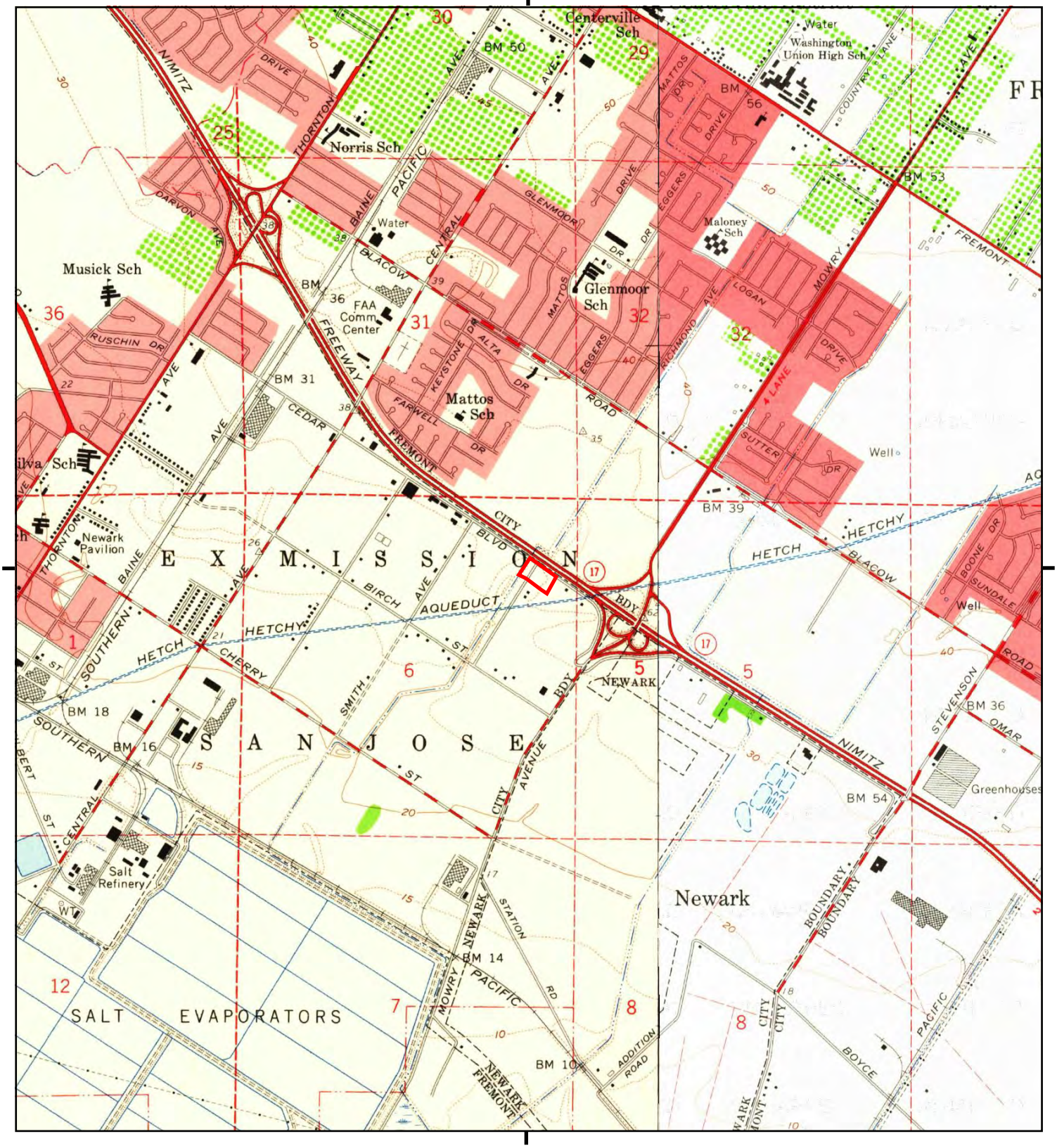
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newark, 1968, 7.5-minute
NE, Niles, 1968, 7.5-minute

SITE NAME: 38600 Cedar Blvd
ADDRESS: 38600 Cedar Blvd
Newark, CA 94560
CLIENT: Engeo Inc.

N



This report includes information from the following map sheet(s).

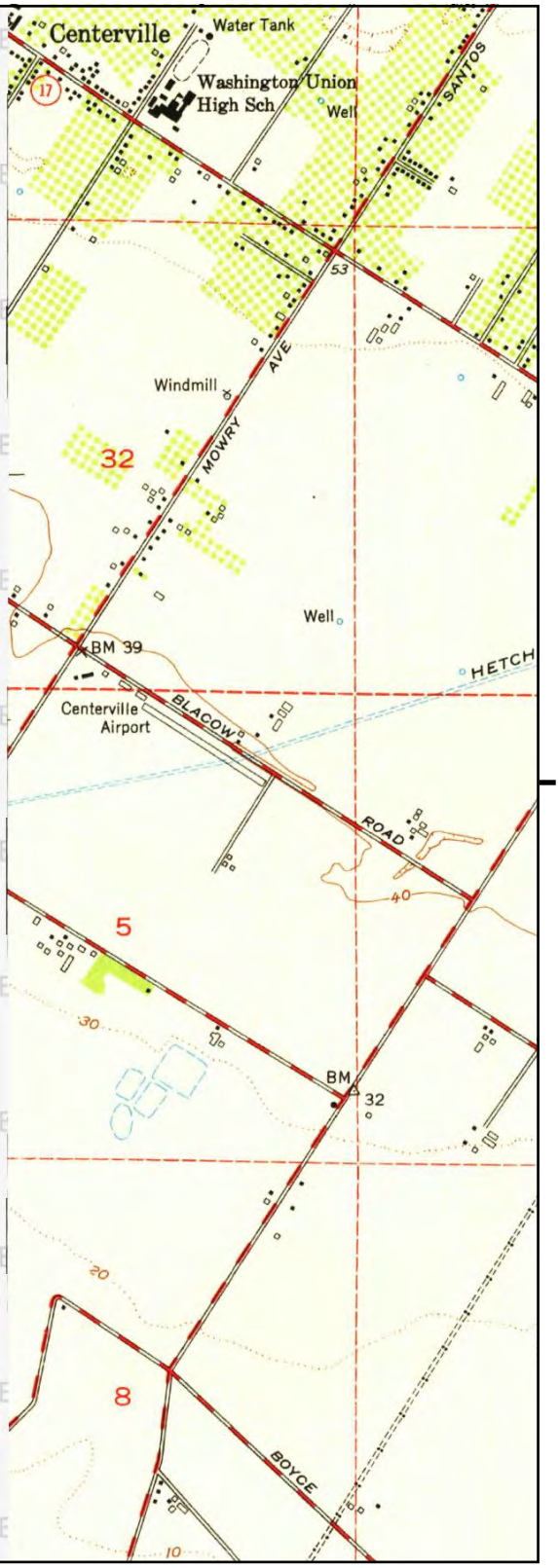
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newark, 1959, 7.5-minute
NE, Niles, 1961, 7.5-minute

SITE NAME: 38600 Cedar Blvd
ADDRESS: 38600 Cedar Blvd
Newark, CA 94560
CLIENT: Engeo Inc.

N



This report includes information from the following map sheet(s).

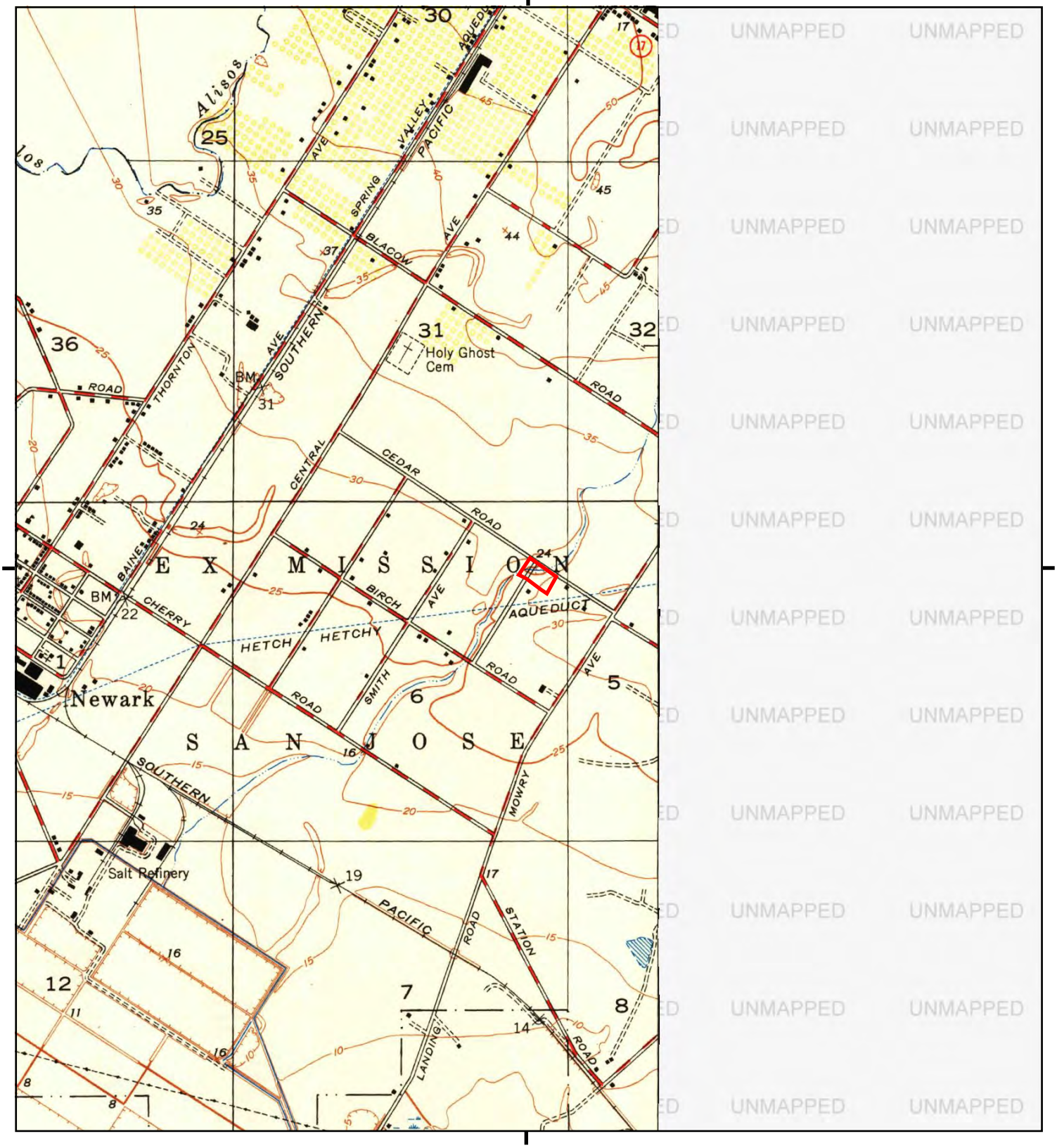
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

NE, Niles, 1953, 7.5-minute

SITE NAME: 38600 Cedar Blvd
ADDRESS: 38600 Cedar Blvd
Newark, CA 94560
CLIENT: Engeo Inc.

N



This report includes information from the following map sheet(s).

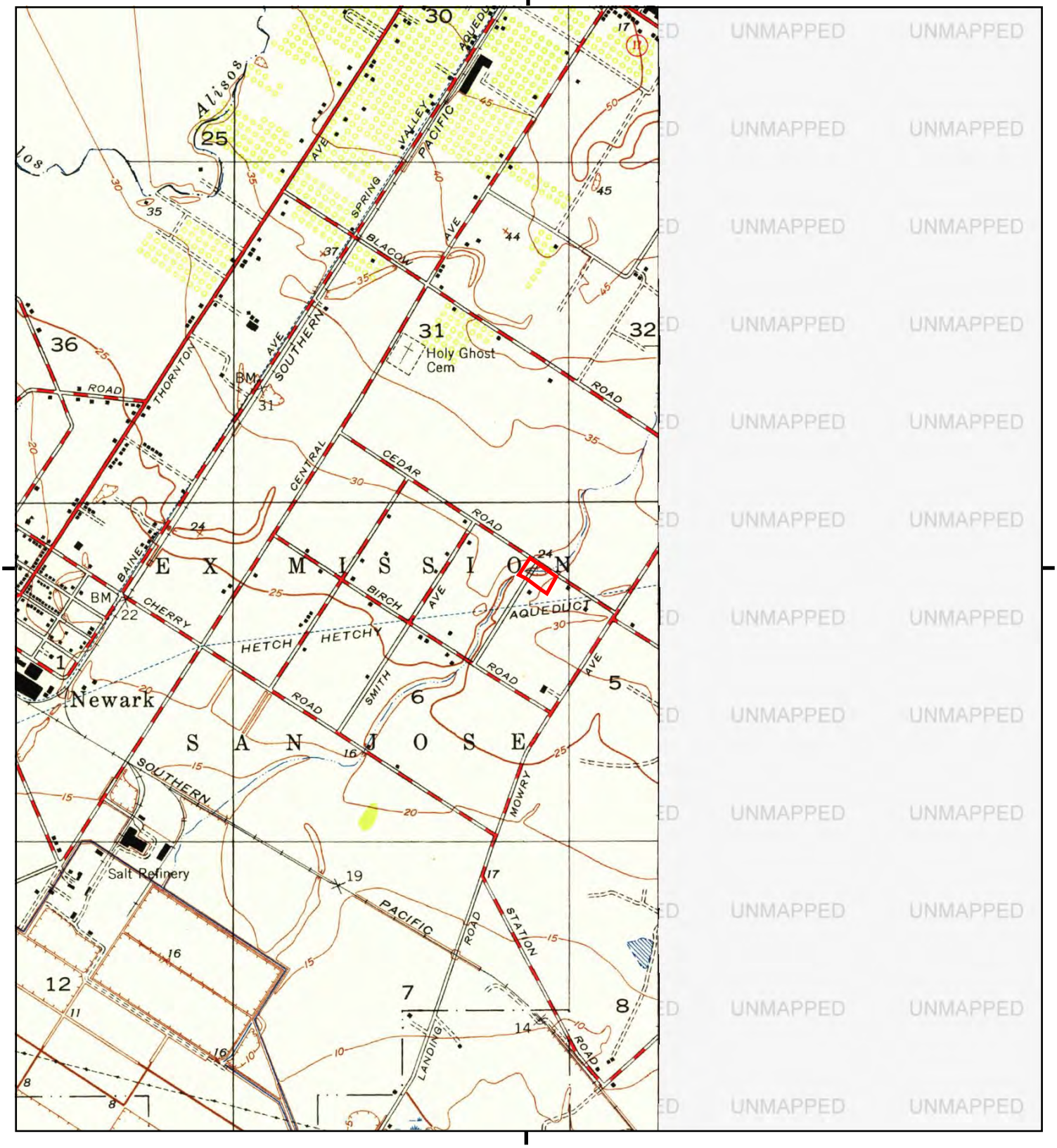
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newark, 1948, 7.5-minute

SITE NAME: 38600 Cedar Blvd
ADDRESS: 38600 Cedar Blvd
Newark, CA 94560
CLIENT: Engeo Inc.

N



This report includes information from the following map sheet(s).

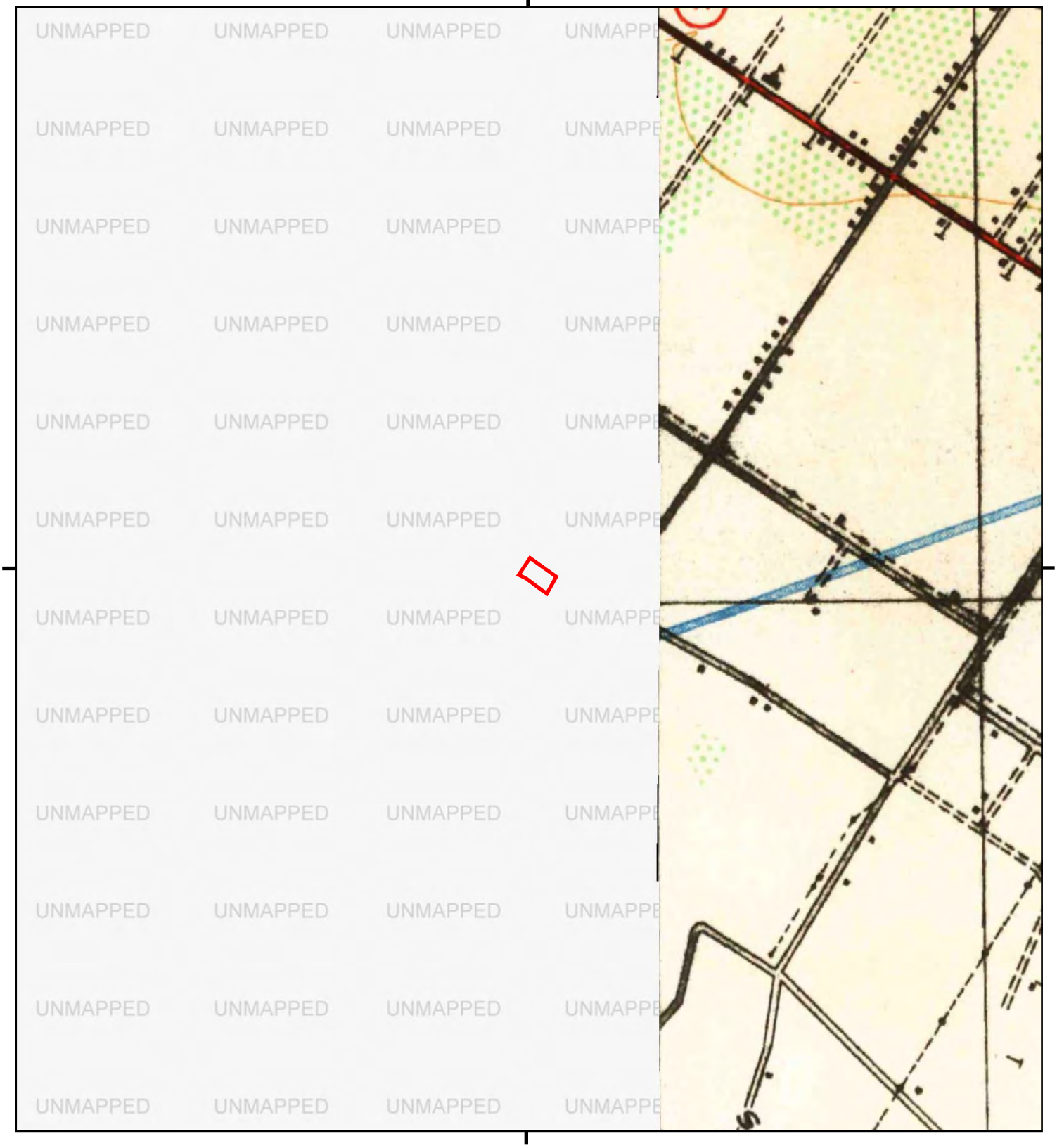
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newark, 1947, 7.5-minute

SITE NAME: 38600 Cedar Blvd
ADDRESS: 38600 Cedar Blvd
Newark, CA 94560
CLIENT: Engeo Inc.

N



This report includes information from the following map sheet(s).

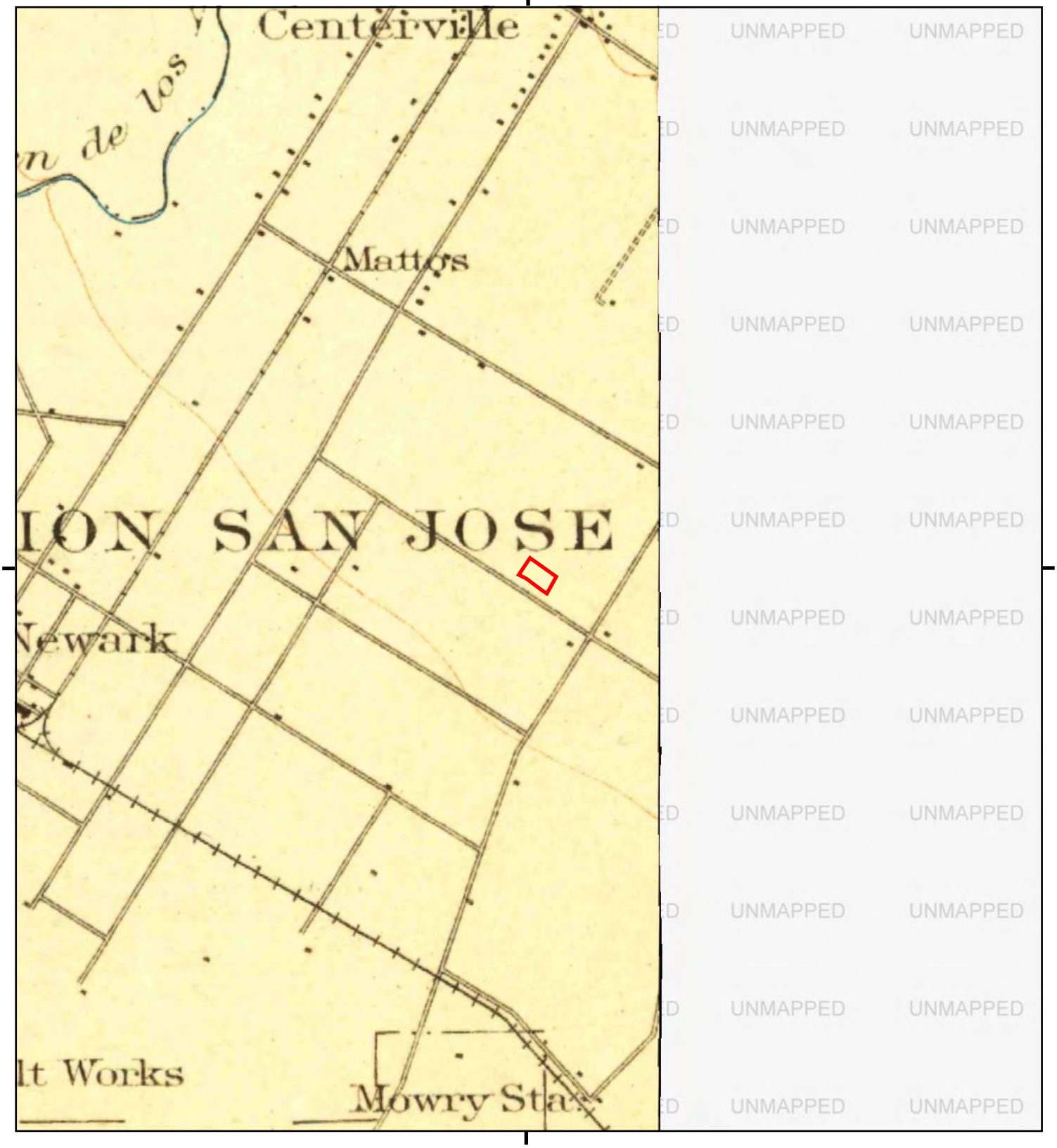
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

NE, Pleasanton, 1941, 15-minute

SITE NAME: 38600 Cedar Blvd
ADDRESS: 38600 Cedar Blvd
Newark, CA 94560
CLIENT: Engeo Inc.

N



This report includes information from the following map sheet(s).

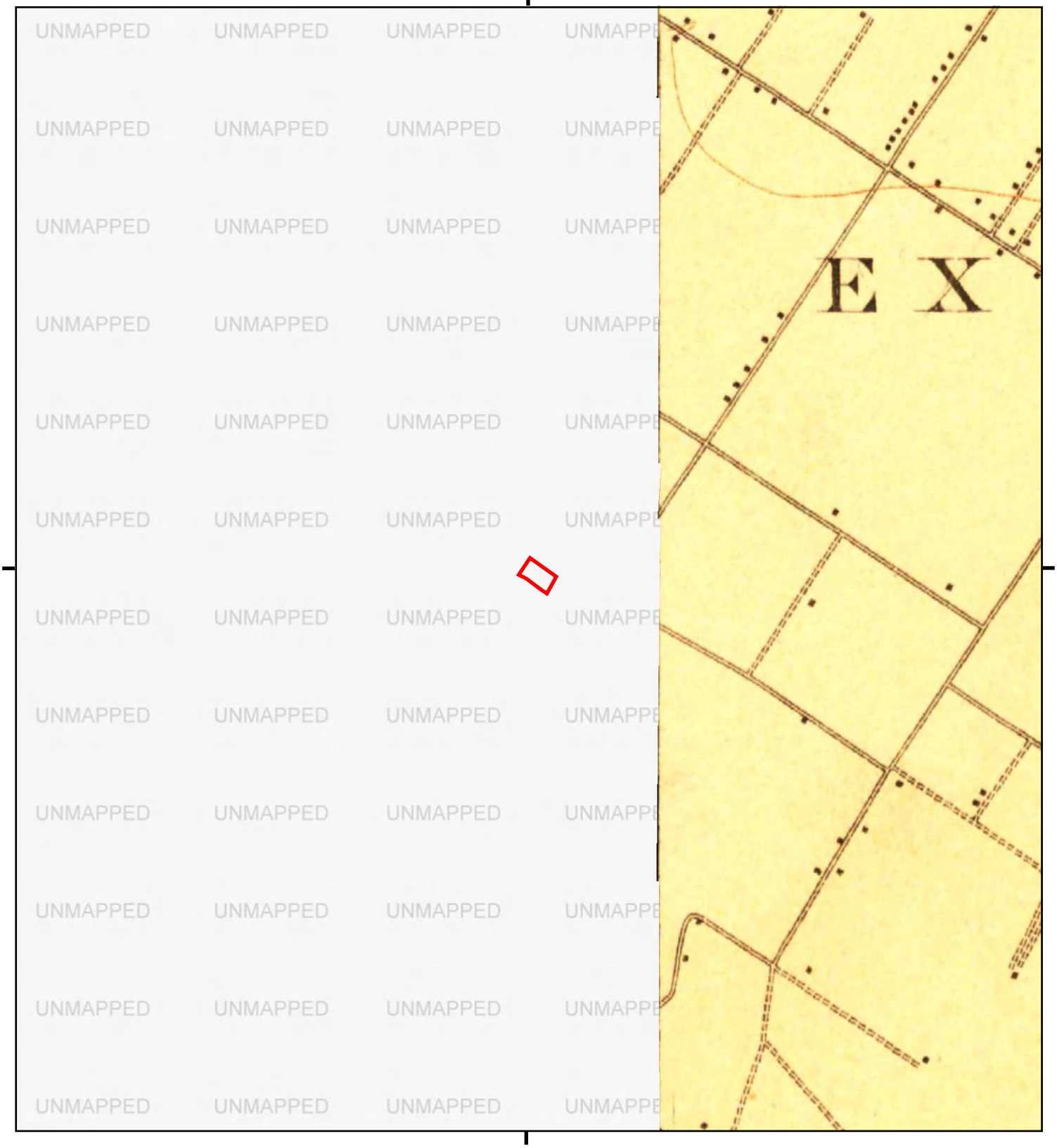
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Haywards, 1915, 15-minute
TP, Hayward, 1915, 15-minute

SITE NAME: 38600 Cedar Blvd
ADDRESS: 38600 Cedar Blvd
Newark, CA 94560
CLIENT: Engeo Inc.

N



This report includes information from the following map sheet(s).

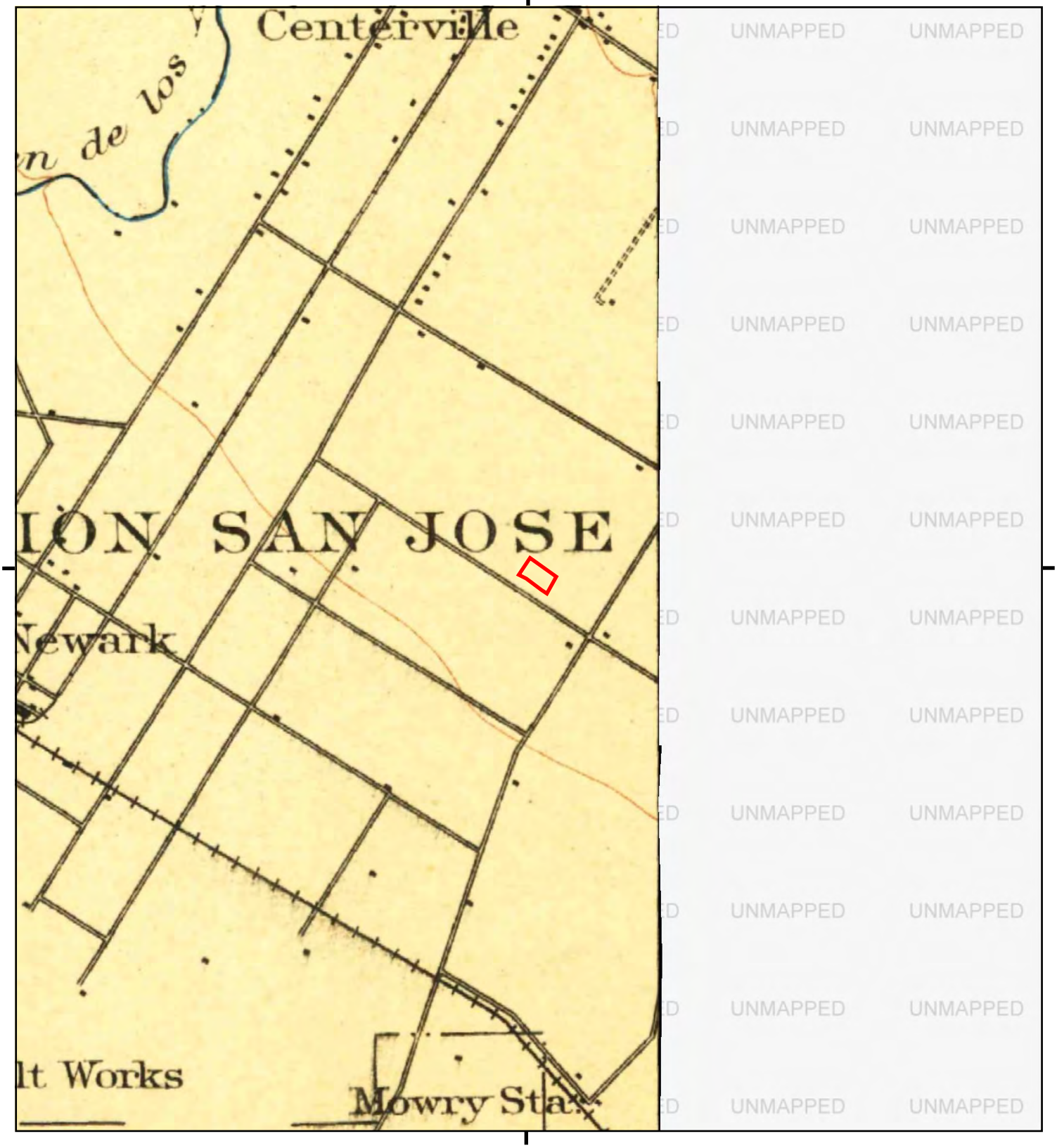
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

NE, Pleasanton, 1906, 15-minute

SITE NAME: 38600 Cedar Blvd
ADDRESS: 38600 Cedar Blvd
Newark, CA 94560
CLIENT: Engeo Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Haywards, 1899, 15-minute

SITE NAME: 38600 Cedar Blvd
ADDRESS: 38600 Cedar Blvd
Newark, CA 94560
CLIENT: Engeo Inc.

N



APPENDIX D

ENVIRONMENTAL DATA RESOURCES, INC.

Aerial Photo Decade Package

38600 Cedar Blvd

38600 Cedar Blvd

Newark, CA 94560

Inquiry Number: 6923688.8

April 01, 2022

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

04/01/22

Site Name:

38600 Cedar Blvd
38600 Cedar Blvd
Newark, CA 94560
EDR Inquiry # 6923688.8

Client Name:

Engeo Inc.
2010 Crow Canyon Place
San Ramon, CA 94583
Contact: Divya Bhargava

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Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Flight Date: September 06, 1998	USDA
1993	1"=500'	Acquisition Date: January 01, 1993	USGS/DOQQ
1982	1"=500'	Flight Date: July 05, 1982	USDA
1979	1"=500'	Flight Date: August 16, 1979	USDA
1974	1"=500'	Flight Date: October 14, 1974	USGS
1968	1"=500'	Flight Date: June 14, 1968	USGS
1963	1"=500'	Flight Date: June 24, 1963	EDR Proprietary Aerial Viewpoint
1958	1"=500'	Flight Date: July 21, 1958	USGS
1948	1"=500'	Flight Date: September 26, 1948	USDA
1946	1"=500'	Flight Date: July 29, 1946	USGS
1939	1"=500'	Flight Date: July 26, 1939	USDA

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INQUIRY #: 6923688.8
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 6923688.8
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 6923688.8
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 6923688.8
YEAR: 2006
= 500'
N
EDR


INQUIRY #: 6923688.8
YEAR: 1998
= 500'
N
EDR


INQUIRY #: 6923688.8
YEAR: 1993
= 500'
N
EDR


INQUIRY #: 6923688.8
YEAR: 1982
= 500'
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YEAR: 1968
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INQUIRY #: 6923688.8
YEAR: 1963
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INQUIRY #: 6923688.8
YEAR: 1958
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EDR


INQUIRY #: 6923688.8
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EDR


INQUIRY #: 6923688.8
YEAR: 1946
= 500'
N
EDR


INQUIRY #: 6923688.8
YEAR: 1939
= 500'
N
EDR



APPENDIX E

ENVIRONMENTAL DATA RESOURCES, INC.

Sanborn Map Report

38600 Cedar Blvd

38600 Cedar Blvd

Newark, CA 94560

Inquiry Number: 6923688.3

April 01, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

04/01/22

Site Name:

38600 Cedar Blvd
38600 Cedar Blvd
Newark, CA 94560
EDR Inquiry # 6923688.3

Client Name:

Engeo Inc.
2010 Crow Canyon Place
San Ramon, CA 94583
Contact: Divya Bhargava

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Engeo Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 6289-4502-8585

PO # 15799.003.000

Project 38600 Cedar Blvd

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 6289-4502-8585

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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APPENDIX F

ENVIRONMENTAL DATA RESOURCES, INC.

City Directory

38600 Cedar Blvd
38600 Cedar Blvd
Newark, CA 94560

Inquiry Number: 6923688.5
April 04, 2022

The EDR-City Directory Abstract

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2017	Cole Information Services	X	X	X	-
2014	Cole Information Services	X	X	X	-
2009	Cole Information Services	-	X	X	-
2006	Haines Company, Inc.	-	-	-	-
2004	Cole Information Services	X	X	X	-
2002	Haines & Company	-	X	X	-
	Haines & Company	X	X	X	-
	R. L. Polk & Co.	-	X	X	-
	R. L. Polk & Co.	X	X	X	-
2000	Pacific Bell	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1999	Cole Information Services	X	X	X	-
1996	PACIFIC BELL DIRECTORY	-	-	-	-
1994	Cole Information Services	X	X	X	-
1993	Pacific Bell	-	-	-	-
1992	PACIFIC BELL DIRECTORY	-	-	-	-
1991	PACIFIC BELL WHITE PAGES	X	-	X	-
1986	Pacific Bell	X	-	X	-
1984	Pacific Bell	-	-	-	-
1982	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1980	Pacific Telephone	X	-	X	-
1979	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1976	R. L. Polk & Co.	-	X	X	-
1975	Pacific Telephone	-	-	-	-
1973	Pacific Telephone	-	X	X	-
1970	Pacific Telephone and Telegraph Co	-	X	X	-
	Pacific Telephone and Telegraph Co	X	X	X	-
1967	R. L. Polk Co.	-	-	-	-
1965	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	-	-	-
1960	Pacific Telephone	-	-	-	-
1959	R. L. Polk & Co.	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co. of California	-	-	-	-
1951	R. L. Polk & Co.	-	-	-	-
1950	The Pacific Telephone & Telegraph Co.	-	-	-	-
1946	R. L. Polk & Co.	-	-	-	-
1945	The Pacific Telephone & Telegraph Co.	-	-	-	-
1943	R. L. Polk & Co.	-	-	-	-
1940	R. L. Polk & Co.	-	-	-	-
1938	Pacific Telephone	-	-	-	-
1933	R. L. Polk & Co.	-	-	-	-
1932	R. L. Polk & Co. of California	-	-	-	-
1928	R. L. Polk Co. of California	-	-	-	-
1926	R. L. Polk & Co.	-	-	-	-
1925	R. L. Polk & Co. of California	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1920	R. L. Polk & Co. of California	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

38600 Cedar Blvd
Newark, CA 94560

FINDINGS DETAIL

Target Property research detail.

CEDAR BLVD

38600 CEDAR BLVD

Year	Uses	Source
2017	PAPE GROUP	Cole Information Services
	PAPE MACHINERY INC	Cole Information Services
2014	PAPE MACHINERY INC	Cole Information Services
2004	NORTRAX WEST	Cole Information Services
2002	HORTONJohn	Haines & Company
	HORTONJohn	R. L. Polk & Co.
1999	EMPIRE EQUIPMENT COMPANY	Cole Information Services
1994	EMPIRE TRACTOR & EQUIPMENT CO	Cole Information Services
	MORTON, JOHN R	Cole Information Services
1991	Employ Exterminators Oakland Office	PACIFIC BELL WHITE PAGES
	Employee Assistance Program	PACIFIC BELL WHITE PAGES
	Employee Assistant Professional Assn	PACIFIC BELL WHITE PAGES
	i Empleo S	PACIFIC BELL WHITE PAGES
1986	Horton Equipment Inc	PACIFIC BELL WHITE PAGES
1982	HORTON EQUIPMENT INC NEWARK	Pacific Telephone
1980	Horton Equipment Inc	Pacific Telephone
1970	INTERNATIONAL HARVESTER CO CONST EQUIP BR NEWARK	Pacific Telephone Directory

CEDAR CT

38600 CEDAR CT

Year	Uses	Source
1979	HORTON EQUIPMENT INC	Pacific Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

AJUGA CT

38410 AJUGA CT

Year	Uses	Source
2017	KATIA MORENO	Cole Information Services
2014	GULSHAD AHMAD	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	PAUL HOLLAND	Cole Information Services
2002	HOLLANOPaul	R. L. Polk & Co.
	HOLLANOPaul	Haines & Company
1994	PURA, ROGER	Cole Information Services

38411 AJUGA CT

Year	Uses	Source
2017	ROCIO MORENO	Cole Information Services
2014	DOUGLAS GAMEZ	Cole Information Services
2009	VENKATESAN CHANDRASENKARAN	Cole Information Services
2004	VENKATESAN CHANDRASENKARAN	Cole Information Services
2002	VENKATESAN 6 C	R. L. Polk & Co.
	VENKATESAN 6 C	Haines & Company
	CHANDRASEKARV	R. L. Polk & Co.
	CHANDRASEKARV	Haines & Company
1999	VENKATESAN CHANDRASENKARAN	Cole Information Services

38414 AJUGA CT

Year	Uses	Source
2017	BATOOR SAYED	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	MOHAMMAD ROSTA	Cole Information Services
2002	OROSTAMohamanad Y	Haines & Company
	OROSTAMohamanad Y	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1999	OCCUPANT UNKNOWN	Cole Information Services

38415 AJUGA CT

Year	Uses	Source
2017	PAULA SCHMIDT	Cole Information Services
2014	PAULA SCHMIDT	Cole Information Services
2009	PAULA SCHMIDT	Cole Information Services
2004	PAULA SCHMIDT	Cole Information Services
2002	SCHMIDTPaula	Haines & Company
1999	PAULA SCHMIDT	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1994	SCHMIDT, JAMES	Cole Information Services

38419 AJUGA CT

Year	Uses	Source
2017	RONALD NOLASCO	Cole Information Services
2014	MATTHEW MILLER	Cole Information Services
2009	MATTHEW MILLER	Cole Information Services
2004	ROBERT SEAH	Cole Information Services
2002	OSAKAIAlan	R. L. Polk & Co.
	OSAKAIAlan	Haines & Company
1999	MATTHEW MILLER	Cole Information Services
1994	JOHNSON, RALPH P	Cole Information Services

AMARYLLIS PL

38363 AMARYLLIS PL

Year	Uses	Source
2014	ELISEO VILLAFUERTE	Cole Information Services
2009	ELISEO VILLAFUERTE	Cole Information Services
2004	ELISEO VILLAFUERTE	Cole Information Services
1999	ELISEO VILLAFUERTE	Cole Information Services

FINDINGS

38369 AMARYLLIS PL

Year	Uses	Source
2017	TERENCE NG	Cole Information Services
2014	TERENCE NG	Cole Information Services
2009	TERENCE NG	Cole Information Services
2004	KEITH FREITAS	Cole Information Services
1999	TERENCE NG	Cole Information Services

38374 AMARYLLIS PL

Year	Uses	Source
2017	FERNANDO JOSE	Cole Information Services
2014	FERNANDO JOSE	Cole Information Services
2009	FERNANDO JOSE	Cole Information Services
2004	GLYNN SURATOS	Cole Information Services
1999	FERNANDO JOSE	Cole Information Services

38375 AMARYLLIS PL

Year	Uses	Source
2017	PAUL YUM	Cole Information Services
2014	PAUL YUM	Cole Information Services
2009	ANDREW IWAMASA	Cole Information Services
2004	ANDREW IWAMASA	Cole Information Services
1999	ANDREW IWAMASA	Cole Information Services

38381 AMARYLLIS PL

Year	Uses	Source
2017	MOHAMMAD ROSTA	Cole Information Services
2014	MOHAMMAD ROSTA	Cole Information Services
2009	MOHAMMAD ROSTA	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	MOHAMMAD ROSTA	Cole Information Services

38387 AMARYLLIS PL

Year	Uses	Source
2017	ROOPALI CHOWDHURY	Cole Information Services
2014	ROOPALI VERMA	Cole Information Services

FINDINGS

Year	Uses	Source
2009	CLEARPATH INFOSYSTEMS LLC	Cole Information Services
	RAJEEV NARANG	Cole Information Services
2004	RAJEEV NARANG	Cole Information Services
1999	RAJEEV NARANG	Cole Information Services

38390 AMARYLLIS PL

Year	Uses	Source
2017	HOMAIRA FAROOP	Cole Information Services
2014	MOHAMMAD BAREKSOY	Cole Information Services
2009	SIDIQ FAROOQ	Cole Information Services
2004	SIDIQ FAROOQ	Cole Information Services
1999	SIDIQ FAROOQ	Cole Information Services

38393 AMARYLLIS PL

Year	Uses	Source
2017	STEVE PANDOLF	Cole Information Services
2014	STEVE PANDOLF	Cole Information Services
2009	STEPHEN PANDOLF	Cole Information Services
2004	STEPHEN PANDOLF	Cole Information Services
1999	STEPHEN PANDOLF	Cole Information Services

CEDAR BLVD

38325 CEDAR BLVD

Year	Uses	Source
2017	GRACE OF GOD ALLIANCE CHURCH	Cole Information Services
2014	KINGS KIDS PRESCHOOL	Cole Information Services
	CEDAR BLVD NEIGHBORHOOD CHURCH	Cole Information Services
	FREMONT NEIGHBORHOOD CHURCH OF THE C	Cole Information Services
2009	KINGS KIDS PRESCHOOL	Cole Information Services
	VIETNAMESE ALLIANCE CHURCH IN NEWARK	Cole Information Services
	CEDAR BOULEVARD NEIGHBORHOOD CHURCH	Cole Information Services
	STELLAR ACADEMY FOR DYSLEXICS	Cole Information Services

FINDINGS

Year	Uses	Source
2004	OCCUPANT UNKNOWN	Cole Information Services
	CEDAR BOULEVARD NGHBRHD CHRCH	Cole Information Services
	VIETNAMESE ALNC CHURCH IN NWRK	Cole Information Services
	KINGS KIDS PRESCHOOL	Cole Information Services
2002	CEDAR BLVD CHURCH	Haines & Company
	CEDARBLVDC	Haines & Company
	KINGS KIDS PBESC	Haines & Company
	STELLARAC	Haines & Company
	BRDGE	Haines & Company
	MNSTRYSHPRD	Haines & Company
	GOOODSAMRTN	Haines & Company
	CHURCH	Haines & Company
	NEIGHBORHOOD	Haines & Company
	CEDAR BLVD CHURCH	R. L. Polk & Co.
	CEDARBLVDC	R. L. Polk & Co.
	CEDAR BLVD CHURCH	R. L. Polk & Co.
	PRSCHL PR	R. L. Polk & Co.
	NEIGHBORHOOD	R. L. Polk & Co.
	CHURCH	R. L. Polk & Co.
	GOOODSAMRTN	R. L. Polk & Co.
	MNSTRYSHPRD	R. L. Polk & Co.
	BRDGE	R. L. Polk & Co.
	KINGS KIDS PBESC	R. L. Polk & Co.
	STELLARAC	R. L. Polk & Co.
	FOR DYSLEXICS	R. L. Polk & Co.
	PRSCHL PR	Haines & Company
	FOR DYSLEXICS	Haines & Company
1999	CEDAR BLVD NEIGHBORHOOD CHURCH CHURCH OFFICE	Cole Information Services
	KINGS ACADEMY	Cole Information Services
	KINGS KIDS PRESCHOOL	Cole Information Services
	STELLAR ACADEMY FOR DYSLEXICS	Cole Information Services

FINDINGS

Year	Uses	Source
1999	FREMONT NEIGHBORHOOD CHURCH OF THE CHRISTIAN & MSSNRY ALL	Cole Information Services
1994	KINGS KIDS PRESCHOOL	Cole Information Services
	CEDAR BLVD NEIGHBORHOOD CHURCH	Cole Information Services
	KINGS ACADEMY	Cole Information Services
	CEDAR BLVD CH CNSLG	Cole Information Services
1982	FREMONT CHRISTIAN SCHOOLS	Pacific Telephone
	MESSENGER PRODUCTIONS NEWARK	Pacific Telephone
	FREMONT CHRISTIAN SCHOOLS	Pacific Telephone

38352 CEDAR BLVD

Year	Uses	Source
2002	XXXX	R. L. Polk & Co.
	XXXX	Haines & Company

38370 CEDAR BLVD

Year	Uses	Source
2017	FREMONT PAVING COMPANY INC	Cole Information Services
2014	FREMONT PAVING COMPANY INC	Cole Information Services
2009	FREMONT PAVING CO INC	Cole Information Services
2004	FREMONT PAVING CO	Cole Information Services
	ELLEN LEBON	Cole Information Services
2002	COMPANY INC	Haines & Company
	FREMONT P	Haines & Company
	FREMONT PAVING	R. L. Polk & Co.
	COMPANY INC	R. L. Polk & Co.
1994	FRANK A FREITAS	Cole Information Services
	FREMONT PAVING CO	Cole Information Services
1982	FREMONT PAVING COMPANY INC NEWARK	Pacific Telephone
	FREITAS FRANK A EXCAVTNG CONTR FREMONT	Pacific Telephone

38424 CEDAR BLVD

Year	Uses	Source
2017	APPLIED AIR FILTERS	Cole Information Services

FINDINGS

Year	Uses	Source
2014	APPLIED AIR FILTERS	Cole Information Services
2009	OVERHEAD DOOR CO	Cole Information Services
	J K J INC	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
2002	OVERHEADD	Haines & Company
	OVERHEADD	R. L. Polk & Co.
1999	OVERHEAD DOOR COMPANY OF THE BAY AREA	Cole Information Services
1994	OVERHEAD DOOR CO	Cole Information Services
1982	ANDAX ENGINEERS INC NEWARK	Pacific Telephone
1979	ANDAX ENGINEERS INC	Pacific Telephone

38456 CEDAR BLVD

Year	Uses	Source
2017	BRACHO MARBLE & GRANITE	Cole Information Services
	CALIFORNIA CAMPER RV REPAIR	Cole Information Services
2014	BRACHO MARBLE & GRANITE	Cole Information Services
	CALIFORNIA CAMPER RV REPAIR	Cole Information Services
2009	BRACHO MARBEL	Cole Information Services
	CALIFORNIA CAMPER REPAIR INC	Cole Information Services
2004	CALIFORNIA CAMPER REPAIR	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
2002	REPAIR	Haines & Company
	CALIFORNIACAMPER	Haines & Company
	REPAIR	R. L. Polk & Co.
	CALIFORNIACAMPER	R. L. Polk & Co.
1999	CALIFORNIA CAMPER REPAIR	Cole Information Services
1994	CALIFORNIA CAMPER REPAIR	Cole Information Services
1982	SOUTHEAST ROOFING SUPPLY INC NEWARK	Pacific Telephone

38472 CEDAR BLVD

Year	Uses	Source
2017	BAY AREA BODY SHOP	Cole Information Services
2014	BAY AREA BODY SHOP	Cole Information Services

FINDINGS

Year	Uses	Source
2009	BAY AREA BODY SHOP	Cole Information Services
2004	DAVID SERRADELL	Cole Information Services
	BAY AREA BODY SHOP	Cole Information Services
2002	BAY AREA BODY SHOP	Haines & Company
	BAY AREA BODY SHOP	R. L. Polk & Co.
1999	DOLLAR RENT A CAR	Cole Information Services
	BAY AREA BODY SHOP	Cole Information Services
1994	BAY AREA BODY SHOP	Cole Information Services

38478 CEDAR BLVD

Year	Uses	Source
2002	FREITASFrank C	R. L. Polk & Co.
	FREITASFrank 00 C	Haines & Company
1982	B & L AUTOMOTIVE CORP NEWARK	Pacific Telephone
	SAL S CUSTOM PAINTS NEWARK	Pacific Telephone
	CUSTOM PAINTS BY SAL NEWARK	Pacific Telephone
1979	CUSTOM PAINTS BY SAL	Pacific Telephone

38486 CEDAR BLVD

Year	Uses	Source
2017	EUROBAHN MOTOR SPORTS	Cole Information Services
2014	EUROBAHN MOTOR SPORTS	Cole Information Services
2009	CABINET SHOP THE	Cole Information Services
2004	CABINET SHOP	Cole Information Services
2002	RESOURCE	R. L. Polk & Co.
	JAG FINE	R. L. Polk & Co.
	WOODWORKING SECO	R. L. Polk & Co.
	RESOURCE	Haines & Company
	WOODWORKING SECO	Haines & Company
	JAG FINE	Haines & Company
1999	ADAMS TAILORED WOODWORKING	Cole Information Services
	ADAMS TAILORED WOODWORKING	Cole Information Services
1994	ADAMS TAILORED WOODWORKING	Cole Information Services

FINDINGS

38592 CEDAR BLVD

Year	Uses	Source
2017	AUTOLAND	Cole Information Services
	MT SMOG TEST ONLY	Cole Information Services
	MT SMOG CHECK STAR STATION	Cole Information Services
2014	AUTOLAND	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
	MT SMOG TEST ONLY	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	A AMERICAN BONAFIDE DNTN SRVC	Cole Information Services
	HOMETOWN AUTO REPAIR	Cole Information Services
	AUTO CRITIC SERVICES	Cole Information Services
	GOLD WHEEL AUTO	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
2002	SEOVICES HOMETOWN AUTO	Haines & Company
	REPAIR	Haines & Company
	BONAFIDE DONATION	Haines & Company
	REPAIR	R. L. Polk & Co.
	SEOVICES HOMETOWN AUTO	R. L. Polk & Co.
	BONAFIDE DONATION	R. L. Polk & Co.
1999	ALS ROOFING SUPPLY	Cole Information Services

38594 CEDAR BLVD

Year	Uses	Source
2017	GOLDEN STATE COLLISION REPAIR CENTER	Cole Information Services
	GOLDEN STATE AUTO BODY	Cole Information Services
2014	GOLDEN STATE COLLISION REPAIR CENTER	Cole Information Services
	GOLDEN STATE AUTO BODY	Cole Information Services
2009	HOMETOWN AUTO REPAIR	Cole Information Services
	CAR STEREO INSTALLATIONS UNLIMITED	Cole Information Services
	IMPERIAL TRUCK & TRAILER REPAIR	Cole Information Services
2004	CAR STEREO	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services

FINDINGS

Year	Uses	Source
2002	PREMIER UPHOLSTERY	Haines & Company
	TOPS&INTERIORS	Haines & Company
	UNLMTD PREMIERAUTO	Haines & Company
	INSTALLATION	Haines & Company
	PREMIER UPHOLSTERY	R. L. Polk & Co.
	CAR STEREO	Haines & Company
	TOPS&INTERIORS	R. L. Polk & Co.
	UNLMTD PREMIERAUTO	R. L. Polk & Co.
	INSTALLATION	R. L. Polk & Co.
	CAR STEREO	R. L. Polk & Co.
1999	PREMIER AUTO UPHOLSTERY	Cole Information Services
1994	JIM PISCIOTTA MARINE	Cole Information Services

CEDAR CT

38325 CEDAR CT

Year	Uses	Source
1979	MESSENGER PRODUCTIONS	Pacific Telephone

DICHONDRA PL

5758 DICHONDRA PL

Year	Uses	Source
2017	ARCENIO WONG	Cole Information Services
2014	RAYMOND WONG	Cole Information Services
2009	ABRAHAM WONG	Cole Information Services
2004	RAYMOND WONG	Cole Information Services
2002	WONG Raymond	R. L. Polk & Co.
	WONG Raymond	Haines & Company
1999	ABRAHAM WONG	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services

5759 DICHONDRA PL

Year	Uses	Source
2009	RAYMOND WONG	Cole Information Services

FINDINGS

Year	Uses	Source
2004	RAYMOND WONG	Cole Information Services
1999	RAYMOND WONG	Cole Information Services

5760 DICHONDRA PL

Year	Uses	Source
2017	STEVE ROSE	Cole Information Services
2014	DAWN STAAB	Cole Information Services
2009	ALFRED JEPSEN	Cole Information Services
	AL CON CONCRETE CONTRACTORS INC	Cole Information Services
2004	ALFRED JEPSEN	Cole Information Services
	AL CON CONCRETE CONTRACTORS	Cole Information Services
2002	OJEPSEN Alfred H	R. L. Polk & Co.
	ALCONCONCRETE	R. L. Polk & Co.
	CONTRACTORS	R. L. Polk & Co.
	OJEPSEN Alfred H	Haines & Company
	CONTRACTORS	Haines & Company
	ALCONCONCRETE	Haines & Company
1999	AL-CON CONCRETE CONTRACTORS	Cole Information Services
	ALFRED JEPSEN	Cole Information Services
1994	JEPSEN, ALFRED H	Cole Information Services
	J&M CONCRETE	Cole Information Services

5762 DICHONDRA PL

Year	Uses	Source
2017	ADWOA ONI	Cole Information Services
2014	DAVID BERMAN	Cole Information Services
2009	ADWOA ONI	Cole Information Services
2004	BENNIE WOLLBERG	Cole Information Services
2002	WCLLBERGBennie R	Haines & Company
	WCLLBERGBennie R	R. L. Polk & Co.
1999	ADWOA ONI	Cole Information Services
1994	WOLLBERG, BENNIE R	Cole Information Services

FINDINGS

5764 DICHONDRA PL

Year	Uses	Source
2017	FRANCISCO YIP	Cole Information Services
2014	FRANCISCO YIP	Cole Information Services
2009	MARIA MEDEIROS	Cole Information Services
2004	TONY MEDEIROS	Cole Information Services
2002	OMEDEIROS Waller	R. L. Polk & Co.
	MEDEIROSWaller	Haines & Company
	MEDEIROSWaller	R. L. Polk & Co.
	OMEDEIROS Waller	Haines & Company
1999	MARIA MEDEIROS	Cole Information Services
1994	MEDEIROS, WALTER	Cole Information Services

5765 DICHONDRA PL

Year	Uses	Source
2017	EMILY KOTTKAMP	Cole Information Services
2014	MATT DALIDA	Cole Information Services
2009	EMILY KOTTKAMP	Cole Information Services
2004	EMILY KOTTKAMP	Cole Information Services
2002	PERRONEJames D	R. L. Polk & Co.
	PERRONEJames 00 D	Haines & Company
1999	EMILY KOTTKAMP	Cole Information Services

5766 DICHONDRA PL

Year	Uses	Source
2017	RAYMOND MCDONELL	Cole Information Services
2014	RAYMOND MCDONELL	Cole Information Services
2009	RAYMOND MCDONELL	Cole Information Services
2004	AV MEDIUM	Cole Information Services
	RAYMOND MCDONELL	Cole Information Services
2002	MCDONELLRay	R. L. Polk & Co.
	MCDONELLRay	Haines & Company
1999	RAYMOND MCDONELL	Cole Information Services

FINDINGS

5767 DICHONDRA PL

Year	Uses	Source
2014	BRENDA MARTINEZ	Cole Information Services
2009	FERDINAND GARCIA	Cole Information Services
2004	KEVIN KANE	Cole Information Services
2002	KANE Kevin	R. L. Polk & Co.
	KANE Kevin	Haines & Company
1999	FERDINAND GARCIA	Cole Information Services

5768 DICHONDRA PL

Year	Uses	Source
2017	VICTORIA MORGAN	Cole Information Services
2014	VICTORIA MORGAN	Cole Information Services
2009	VICTORIA MORGAN	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
2002	SCHOIJung H	Haines & Company
	SCHOIJung H	R. L. Polk & Co.
	DICHONDRAPL 94560 CONT	R. L. Polk & Co.
	DICHONDRAPL 94560 CONT	Haines & Company
1999	OCCUPANT UNKNOWN	Cole Information Services
	VICTORIA MORGAN	Cole Information Services

5769 DICHONDRA PL

Year	Uses	Source
2017	JOSE ARROYO	Cole Information Services
2014	JOSE ARROYO	Cole Information Services
2009	JOSE ARROYO	Cole Information Services
2004	GUADALUPE BARRAGAN	Cole Information Services
2002	BARRAGAN S Gu Ddailupe	R. L. Polk & Co.
	ARROYOJose	Haines & Company
	BARPAGAN S Gvdailupe	Haines & Company
	ARROYOJose C	R. L. Polk & Co.
1999	JOSE ARROYO	Cole Information Services
1994	ZAFAR, NAEEM	Cole Information Services

FINDINGS

5770 DICHONDRA PL

Year	Uses	Source
2017	VASAVI BALASUBRAMANYAM	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	LINDA CRUZ	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
2002	MARTIN	R. L. Polk & Co.
	MARTIN	Haines & Company
1999	AARON MARTIN	Cole Information Services
	LINDA CRUZ	Cole Information Services
1994	MARTIN, AARON	Cole Information Services

5772 DICHONDRA PL

Year	Uses	Source
2017	KIRSTEN CALLES	Cole Information Services
	ALEGRIA COMMUNITY LIVINGDICHONDRA	Cole Information Services
2014	ALAN CARLILE	Cole Information Services
	ALEGRIA COMMUNITY LIVINGDICHONDRA	Cole Information Services
2009	ALAN CARLILE	Cole Information Services
2004	ALAN CARLILE	Cole Information Services
2002	CARLILEAlan G	R. L. Polk & Co.
	CARLILEAlan G	Haines & Company
1999	ALAN CARLILE	Cole Information Services
1994	CARLILE, ALAN G	Cole Information Services

5773 DICHONDRA PL

Year	Uses	Source
2017	GREG MAGARIO	Cole Information Services
2014	ANTHONY WALLACE	Cole Information Services
2009	GREG MAGARIO	Cole Information Services
2004	GREG MAGARIO	Cole Information Services
2002	MAGARI	R. L. Polk & Co.
	MAGARI	Haines & Company
1999	GREG MAGARIO	Cole Information Services
1994	CUNNINGHAM, FRANK	Cole Information Services

FINDINGS

5774 DICHONDRA PL

Year	Uses	Source
2017	ROSENDO ARTEAGA	Cole Information Services
2014	ROBERT ARTEAGA	Cole Information Services
2009	ROSENDO ARTEAGA	Cole Information Services
	R C A OIL RECOVERY	Cole Information Services
2004	ROSENDO ARTEAGA	Cole Information Services
	RCA OIL RECOVERY	Cole Information Services
2002	ARTEAGA Rosendo	R. L. Polk & Co.
	ARTEAGA Rosendo	Haines & Company
1999	ROSENDO ARTEAGA	Cole Information Services

5775 DICHONDRA PL

Year	Uses	Source
2017	COURTNEY LARA	Cole Information Services
2014	COURTNEY LARA	Cole Information Services
2009	HERBERT LARA	Cole Information Services
2004	HERBERT LARA	Cole Information Services
2002	SLARAHerb	Haines & Company
	SLARAHer l	R. L. Polk & Co.
1999	HERBERT LARA	Cole Information Services
1994	LARA, HERB	Cole Information Services

5776 DICHONDRA PL

Year	Uses	Source
2017	VIG RIDDERSHOLM	Cole Information Services
2014	ALEJANDRO CALLES	Cole Information Services
2009	ALEJANDRO CALLES	Cole Information Services
2004	ALEJANDRO CALLES	Cole Information Services
2002	CALLESAte landro	R. L. Polk & Co.
	CALLESAltjandro	Haines & Company
1999	A CALLES	Cole Information Services
	ALEJANDRO CALLES	Cole Information Services

FINDINGS

5777 DICHONDRA PL

Year	Uses	Source
2017	MANUEL ALEGRE	Cole Information Services
2014	MANUEL ALEGRE	Cole Information Services
2009	MANUEL ALEGRE	Cole Information Services
2004	MANUEL ALEGRE	Cole Information Services
2002	ALEGREManuel	Haines & Company
	ALEGREManuel	R. L. Polk & Co.
1999	OCCUPANT UNKNOWN	Cole Information Services
	MANUEL ALEGRE	Cole Information Services

5778 DICHONDRA PL

Year	Uses	Source
2009	FERNANDO ANDRADE	Cole Information Services
2004	ROBERT CASTELLANOS	Cole Information Services
2002	CASTELLANOSRobert	R. L. Polk & Co.
	CASTELLANOSRobert	Haines & Company
1999	OCCUPANT UNKNOWN	Cole Information Services
	FERNANDO ANDRADE	Cole Information Services

5779 DICHONDRA PL

Year	Uses	Source
2017	YI KU	Cole Information Services
2014	YI KU	Cole Information Services
2009	ERIC CALANDE	Cole Information Services
2004	CHARRISH BIRRELL	Cole Information Services
2002	BIRRELLJodr	Haines & Company
	BIRRELLJodo	R. L. Polk & Co.
1999	ERIC CALANDE	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services

5780 DICHONDRA PL

Year	Uses	Source
2017	RONALD DRAPER	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services

FINDINGS

Year	Uses	Source
2002	DRAPERRonald	Haines & Company
	MAWLAVIZADAShard	Haines & Company
	DRAPER Ronald MAWLAVIZADASharu	R. L. Polk & Co.
1999	OCCUPANT UNKNOWN	Cole Information Services
	DRAPER RONALD S TEACHER OF PIANO	Cole Information Services
1994	RONALD S DRAPER TEACHER	Cole Information Services

5782 DICHONDRA PL

Year	Uses	Source
2017	MICHAEL FINK	Cole Information Services
2014	MICHAEL FINK	Cole Information Services
2009	MICHAEL FINK	Cole Information Services
2004	MARTIN KOBYLECKY	Cole Information Services
2002	BRENNAN Celesline	Haines & Company
	BRENNAN Celesline	R. L. Polk & Co.
1999	OCCUPANT UNKNOWN	Cole Information Services
	MICHAEL FINK	Cole Information Services

5784 DICHONDRA PL

Year	Uses	Source
2017	MICHAEL PRESTON	Cole Information Services
2014	MICHAEL PRESTON	Cole Information Services
2009	MICHAEL PRESTON	Cole Information Services
2004	MICHAEL PRESTON	Cole Information Services
2002	PRESTON Michael	Haines & Company
	PRESTON Michael	R. L. Polk & Co.
1999	MICHAEL PRESTON	Cole Information Services

5786 DICHONDRA PL

Year	Uses	Source
2014	MARIO RUBIO	Cole Information Services
2004	STEPHANIE YEH	Cole Information Services
2002	GREENBERG Roger	R. L. Polk & Co.
	GREENBERG Roger	Haines & Company

FINDINGS

5788 DICHONDRA PL

Year	Uses	Source
2017	GREGORY LEMOS	Cole Information Services
2014	G LEMOS	Cole Information Services
2009	G LEMOS	Cole Information Services
2004	GREGORY LEMOS	Cole Information Services
2002	LEMOSK	Haines & Company
	LEMOSK	R. L. Polk & Co.
1999	G LEMOS	Cole Information Services

5790 DICHONDRA PL

Year	Uses	Source
2017	PHILLIP CHAGOYA	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	JOHN REINOSA	Cole Information Services
2004	JOHN REINOSA	Cole Information Services
2002	REIh OSAJohn	Haines & Company
	REINOSAJo On	R. L. Polk & Co.
1999	JOHN REINOSA	Cole Information Services

5791 DICHONDRA PL

Year	Uses	Source
2017	SEAN MCFERRAN	Cole Information Services
2014	SEAN MCFERRAN	Cole Information Services
2009	GERALD MCFERRAN	Cole Information Services
2004	GERALD MCFERRAN	Cole Information Services
2002	SAYOTAurora	Haines & Company
	SAYOTAurora i	R. L. Polk & Co.
1999	GERALD MCFERRAN	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1994	BADAWY, ADEL	Cole Information Services

5792 DICHONDRA PL

Year	Uses	Source
2017	KRISHNA TIWARI	Cole Information Services

FINDINGS

Year	Uses	Source
2014	ROSA MACIAS	Cole Information Services
2009	C PUROHIT	Cole Information Services
2004	MOHAMED MASOUD	Cole Information Services
2002	UNDERTHE 0 N 1 LE	Haines & Company
	MASOUDMohamed	R. L. Polk & Co.
	UNDER 5 THENILE	R. L. Polk & Co.
	UNDERTHEINILE	R. L. Polk & Co.
	UNDER THEHNILE	Haines & Company
	MASOUDMohaamed	Haines & Company
1999	MOHAMED MASOUD	Cole Information Services
	C PUROHIT	Cole Information Services
1994	MASOUD, MOHAMED	Cole Information Services

5793 DICHONDRA PL

Year	Uses	Source
2014	CECILIA PEREZ	Cole Information Services
2009	MINESH PATEL	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
2002	PATELMI 09sh	Haines & Company
	OPATELB	Haines & Company
	PATELMi OOsh	R. L. Polk & Co.
	PATEL	R. L. Polk & Co.
1999	MINESH PATEL	Cole Information Services

5794 DICHONDRA PL

Year	Uses	Source
2017	LEE WONG	Cole Information Services
2014	ROBERT YEE	Cole Information Services
2009	ROBERT YEE	Cole Information Services
2004	ROBERT YEE	Cole Information Services
2002	YEE Lsda	Haines & Company
	YEE Linda	R. L. Polk & Co.
1999	ROBERT YEE	Cole Information Services

FINDINGS

5795 DICHONDRA PL

Year	Uses	Source
2017	LOUIS ASTORRI	Cole Information Services
2014	LOUIS ASTORRI	Cole Information Services
2009	BRUCE ASTORRI	Cole Information Services
2004	BRUCE ASTORRI	Cole Information Services
2002	ASTORRi Low s	R. L. Polk & Co.
	ASTORRi Louas	Haines & Company
1999	BRUCE ASTORRI	Cole Information Services

MOORES AVE

5619 MOORES AVE

Year	Uses	Source
2014	SOHAN SHARMA	Cole Information Services
2009	CHERYL HALL	Cole Information Services
2004	RICHARD HALL	Cole Information Services
2002	HALL Richard	Haines & Company
	HALL Richard	R. L. Polk & Co.
1999	CHERYL HALL	Cole Information Services
1982	NAVAS DALE NEWARK	Pacific Telephone

5633 MOORES AVE

Year	Uses	Source
2017	EKALAVYA BACHU	Cole Information Services
2014	ROGERIO MACHADO	Cole Information Services
2009	ROGERIO MACHADO	Cole Information Services
2004	HENRY TAYLOR	Cole Information Services
2002	TAYLORHemy	R. L. Polk & Co.
	TAYLORHemy	Haines & Company
1999	ROGERIO MACHADO	Cole Information Services
1994	EBEN, NOEL	Cole Information Services
1982	EBEN NOEL NEWARK	Pacific Telephone
1979	EBEN NOEL	Pacific Telephone
1976	EBEN NOEL	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1973	CLOUD LEROY REV	Pacific Telephone

5647 MOORES AVE

Year	Uses	Source
2017	RICHARD DOMINGUEZ	Cole Information Services
2014	RICHARD DOMINGUEZ	Cole Information Services
2009	RICHARD DOMINGUEZ	Cole Information Services
2004	RICHARD DOMINGUEZ	Cole Information Services
2002	DOMINGUEZ Richard	R. L. Polk & Co.
	DOMINGUEZ Richard	Haines & Company
1999	RICHARD DOMINGUEZ	Cole Information Services

5659 MOORES AVE

Year	Uses	Source
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	ANGELIQUE HORTON	Cole Information Services
2004	AARON GETREU	Cole Information Services
2002	OLIVARESIsmael	Haines & Company
	OLIVARESIsmael	R. L. Polk & Co.
1999	ANGELIQUE HORTON	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1982	TAYLOR BRIAN NEWARK	Pacific Telephone
1973	NELSON GERALD D	Pacific Telephone
1970	NELSON GERALD D	Pacific Telephone and Telegraph Co

5681 MOORES AVE

Year	Uses	Source
2017	JESUS ARROYO	Cole Information Services
2009	JESUS ARROYO	Cole Information Services
2004	JOSE ARROYO	Cole Information Services
2002	COURTNEY Janel	Haines & Company
	COURTNEY Janel	R. L. Polk & Co.
1999	JESUS ARROYO	Cole Information Services
	JANET COURTNEY	Cole Information Services

FINDINGS

Year	Uses	Source
1994	COURTNEY, JANET	Cole Information Services
1982	COURTNEY KENNETH & JANET NEWARK	Pacific Telephone

5692 MOORES AVE

Year	Uses	Source
2017	ROBERT NELSON	Cole Information Services
2014	ROBERT NELSON	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	ROBERT NELSON	Cole Information Services
2002	NELSON Robert 00th	Haines & Company
	NELSON Robert 00th	R. L. Polk & Co.
1999	OCCUPANT UNKNOWN	Cole Information Services
1973	KRASOVAC M	Pacific Telephone
1970	KRASOVAC M	Pacific Telephone and Telegraph Co

5697 MOORES AVE

Year	Uses	Source
2014	CECIL EVANS	Cole Information Services
2009	HENRY BARROW	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
2002	BARROWHenry	Haines & Company
	BARROWHenry	R. L. Polk & Co.
1999	HENRY BARROW	Cole Information Services
1976	BORBA CARLOS A	R. L. Polk & Co.

5712 MOORES AVE

Year	Uses	Source
1970	DECENA FRANK M	Pacific Telephone and Telegraph Co

WINTERGREEN DR

5603 WINTERGREEN DR

Year	Uses	Source
2017	BETTY PAYNE	Cole Information Services
2014	BETTY PAYNE	Cole Information Services

FINDINGS

Year	Uses	Source
2009	BETTY PAYNE	Cole Information Services
2004	PATRICK VACCHIERI	Cole Information Services
2002	PAYNE Belly	Haines & Company
	PAYNE Belly	R. L. Polk & Co.
1999	BETTY PAYNE	Cole Information Services
1994	PAYNE, JEFF T	Cole Information Services
1982	PAYNE JEFF T NEWARK	Pacific Telephone
1979	PAYNE JEFF T	Pacific Telephone
1976	PAYNE JEFF T	R. L. Polk & Co.
1973	PAYNE JEFF T	Pacific Telephone
1970	PAYNE JEFF T	Pacific Telephone and Telegraph Co

5608 WINTERGREEN DR

Year	Uses	Source
2017	L LIU	Cole Information Services
2014	DANNENE LOVDAHL	Cole Information Services
2009	KYLE WRIGHT	Cole Information Services
2004	NANCY FENTON	Cole Information Services
	DANNENE LOVDAHL	Cole Information Services
2002	LOVDAHLDannene	R. L. Polk & Co.
	LOVDAHLDannene	Haines & Company
1999	KYLE WRIGHT	Cole Information Services
1982	SCHULTZ GARY L NEWARK	Pacific Telephone

5615 WINTERGREEN DR

Year	Uses	Source
2017	BRUCE JONES	Cole Information Services
2014	BRUCE JONES	Cole Information Services
2009	LEO WOOD	Cole Information Services
	REBECCA HOTTER	Cole Information Services
	BRUCE JONES	Cole Information Services
2004	LEO WOOD	Cole Information Services
2002	WOOD Leo T	Haines & Company
	WOOD Leo T	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1999	LEO WOOD	Cole Information Services
	REBECCA HOTTER	Cole Information Services
	BRUCE JONES	Cole Information Services
1994	SUTER, FRANK J	Cole Information Services
1982	SUTER FRANK J NEWARK	Pacific Telephone

5616 WINTERGREEN DR

Year	Uses	Source
2017	MICHAEL MARTINEZ	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	LINDA GRAY	Cole Information Services
2002	BURGESSMona	Haines & Company
	BURGESSMona	R. L. Polk & Co.
1979	HUNTSINGER GEORGE	Pacific Telephone
1973	IRVIN JOHN	Pacific Telephone
1970	IRVIN JOHN	Pacific Telephone and Telegraph Co

5627 WINTERGREEN DR

Year	Uses	Source
2014	HUONG TRAN	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	STEPHEN BARRETT	Cole Information Services
2002	BARRETTK	Haines & Company
	BARRETTK	R. L. Polk & Co.
1979	GIACHINP ANDREW A NEWARK 79779	Pacific Telephone
1973	GLACHINO ANDREW A	Pacific Telephone
1970	GIACHINO ANDREW A	Pacific Telephone and Telegraph Co

5630 WINTERGREEN DR

Year	Uses	Source
2017	ALBERT ALBERTI	Cole Information Services
2014	ALBERT ALBERTI	Cole Information Services
2009	JACQUELINE ALBERTI	Cole Information Services

FINDINGS

Year	Uses	Source
2004	JACQUELINE ALBERTI	Cole Information Services
2002	ALBERTIAlber SE	R. L. Polk & Co.
	OALBERTI Albert E	R. L. Polk & Co.
	ALBERTIAlber SE	Haines & Company
	OALBERTI Albert E	Haines & Company
1999	JACQUELINE ALBERTI	Cole Information Services
1994	ALBERTI, ALBERT E	Cole Information Services
1982	ALBERTI ALBERT E NEWARK	Pacific Telephone
1979	ALBERTI ALBERT E	Pacific Telephone
1976	ALBERTI ALBERT E	R. L. Polk & Co.
1973	ALBERTI ALBERT E	Pacific Telephone
1970	BRIGGS JOHN W	Pacific Telephone and Telegraph Co

5642 WINTERGREEN DR

Year	Uses	Source
2017	YONG TAN	Cole Information Services
2014	YONG TAN	Cole Information Services
2009	NICOLE RILEY	Cole Information Services
	KEYVAN K MONAJER	Cole Information Services
2004	KEYVAN MOHAJER	Cole Information Services
2002	LUChien Chung	Haines & Company
	NAVARRO Angelila	Haines & Company
	NAVARRO Angelila	R. L. Polk & Co.
	LUChien Chung	R. L. Polk & Co.
1999	NICOLE RILEY	Cole Information Services
1994	RAFFAELLI, BRIAN	Cole Information Services
1982	BEANAN GREGORY NEWARK	Pacific Telephone
1979	BEANAN GREGORY	Pacific Telephone

5654 WINTERGREEN DR

Year	Uses	Source
2017	DAVID WINN	Cole Information Services
2014	DAVID WINN	Cole Information Services
2009	DAVID WINN	Cole Information Services

FINDINGS

Year	Uses	Source
2002	WINN David	R. L. Polk & Co.
	8 WINN David	Haines & Company
1999	DAVID WINN	Cole Information Services

WINTERWSREEN DR

5627 WINTERWSREEN DR

Year	Uses	Source
1976	GIACHINO ANDREW A	R. L. Polk & Co.

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
38325 CEDAR BLVD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38325 CEDAR BLVD	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38325 CEDAR CT	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38352 CEDAR BLVD	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38363 AMARYLLIS PL	2017, 2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38369 AMARYLLIS PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38370 CEDAR BLVD	2006, 2002, 2000, 1999, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38370 CEDAR BLVD	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38374 AMARYLLIS PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38375 AMARYLLIS PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38381 AMARYLLIS PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38387 AMARYLLIS PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38390 AMARYLLIS PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
38393 AMARYLLIS PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38410 AJUGA CT	2006, 2002, 2000, 1999, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38410 AJUGA CT	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38411 AJUGA CT	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38411 AJUGA CT	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38414 AJUGA CT	2014, 2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38414 AJUGA CT	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38415 AJUGA CT	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38415 AJUGA CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38419 AJUGA CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38419 AJUGA CT	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38424 CEDAR BLVD	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38424 CEDAR BLVD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38456 CEDAR BLVD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
38456 CEDAR BLVD	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38472 CEDAR BLVD	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38472 CEDAR BLVD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38478 CEDAR BLVD	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38486 CEDAR BLVD	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38486 CEDAR BLVD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38592 CEDAR BLVD	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38592 CEDAR BLVD	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38594 CEDAR BLVD	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
38594 CEDAR BLVD	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5603 WINTERGREEN DR	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5603 WINTERGREEN DR	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5608 WINTERGREEN DR	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5608 WINTERGREEN DR	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
5615 WINTERGREEN DR	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5615 WINTERGREEN DR	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5616 WINTERGREEN DR	2006, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5616 WINTERGREEN DR	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5619 MOORES AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5619 MOORES AVE	2017, 2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5627 WINTERGREEN DR	2017, 2006, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5627 WINTERGREEN DR	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5627 WINTERWSREEN DR	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5630 WINTERGREEN DR	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5630 WINTERGREEN DR	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5633 MOORES AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5633 MOORES AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5642 WINTERGREEN DR	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5642 WINTERGREEN DR	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
5647 MOORES AVE	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5647 MOORES AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5654 WINTERGREEN DR	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5654 WINTERGREEN DR	2006, 2004, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5659 MOORES AVE	2017, 2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5659 MOORES AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5681 MOORES AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5681 MOORES AVE	2014, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5692 MOORES AVE	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5692 MOORES AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5697 MOORES AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5697 MOORES AVE	2017, 2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5712 MOORES AVE	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5758 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
5758 DICHONDRA PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5759 DICHONDRA PL	2017, 2014, 2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5760 DICHONDRA PL	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5760 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5762 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5762 DICHONDRA PL	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5764 DICHONDRA PL	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5764 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5765 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5765 DICHONDRA PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5766 DICHONDRA PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5766 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5767 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5767 DICHONDRA PL	2017, 2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
5768 DICHONDRA PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5768 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5769 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5769 DICHONDRA PL	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5770 DICHONDRA PL	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5770 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5772 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5772 DICHONDRA PL	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5773 DICHONDRA PL	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5773 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5774 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5774 DICHONDRA PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5775 DICHONDRA PL	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5775 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
5776 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5776 DICHONDRA PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5777 DICHONDRA PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5777 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5778 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5778 DICHONDRA PL	2017, 2014, 2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5779 DICHONDRA PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5779 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5780 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5780 DICHONDRA PL	2014, 2009, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5782 DICHONDRA PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5782 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5784 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5784 DICHONDRA PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
5786 DICHONDRA PL	2017, 2009, 2006, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5786 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5788 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5788 DICHONDRA PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5790 DICHONDRA PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5790 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5791 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5791 DICHONDRA PL	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5792 DICHONDRA PL	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5792 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5793 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5793 DICHONDRA PL	2017, 2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5794 DICHONDRA PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5794 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
5795 DICHONDRA PL	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
5795 DICHONDRA PL	2006, 2002, 2000, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
38600 Cedar Blvd	2009, 2006, 2000, 1996, 1993, 1992, 1984, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920



APPENDIX G

ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRES (2)

ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE
FOR CLIENT

To evaluate the potential for possible environmentally related impacts and site contamination the following information is requested. This questionnaire is to be completed by the user of the phase one environmental site assessment, or their authorized representative.

PART I

1. Property address and Assessor's Parcel Number (APN):

38600 Cedar Blvd., Newark; 92A-2585-12-1 and 92A-2585-31.

2. Current property owner (name, address, voice/fax number):

Ohana Land Company, LLC

3. Date current property owner assumed title of property:

Unknown

4. Current property development/improvements:

Heavy construction equipment sales/parts/service

5. Past property use, development/improvements:

Unknown

6. Neighboring property uses:

Industrial, residential, commercial, motel

PART II

Unk: unknown

1.	Are you aware of any environmental cleanup liens against the *property* that are filed under federal, tribal, local or state law?	☐ Yes	☒ Unk	
2.	Are you aware of any activity and land use limitations, such as engineering controls, land use restrictions, or institutional controls that are in place at the property and/or have been filed or recorded in a registry under federal, tribal, state or local law?	☐ Yes	☒ Unk	
3.	Do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the *property* or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?	☐ Yes	☒ No	
4.	If a property transaction is occurring in conjunction with this environmental assessment, does the purchase price of this *property* reasonably reflect the fair market value of the *property*?	☐ Yes	☒ Unk	
5.	If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property?*	☐ Yes	☐ No	☒ N/A
6.	Are you aware of any commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, (a) do you know of specific chemicals that are present or once were present at the *property*? (b) do you know of spills or other chemical releases that have taken place at the *property*? (c) do you know of any environmental cleanups that have taken place at the *property*?	☐ Yes	☒ Unk	
7.	Based on your knowledge and experience related to the *property* are there any obvious indicators that point to the presence or likely presence of contamination at the *property*?	☐ Yes	☒ Unk	

If a "Yes" response was provided to any of the above questions, please provide details below:

I certify that the information herein is true and correct to the best of my knowledge as of the date signed below.

Name (Printed/Typed): Susan Wilson

Signature: [signature] Date: 4/25/22

ENGEO
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ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE
FOR KEY SITE MANAGER

To evaluate the potential for possible environmentally related impacts and site contamination the following information is requested. This questionnaire is to be preferably completed by the current property owner, or owner representative, leasing agent, or other person having good knowledge of the uses and physical characteristics of the property (Key Site Manager).

PART I

1. Property Address/Location and Assessor's Parcel Number (APN):

38600 Cedar Blvd., Newark; 92A-2585-12-1 and 92A-2585-31

2. Current property owner (name, address, voice/fax number):

Ohana Land Company, LLC

3. Date current property owner assumed title of property:

2009

4. Current property development/improvements:

Heavy construction equipment sales/parts/service

5. Past property use, development/improvements:

Unknown

6. Neighboring property uses:

Industrial, residential, commercial, motel

PART II - The following questions should be answered to the best of your knowledge.

Unk: unknown

1. Is/has the *property* or any adjoining property used/been used for industrial purposes?	☒ Yes	☐ No
2. Has the *property* or any adjoining property been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	☐ Yes	☒ Unk
3. Are there currently, or have there been previously, any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than 5 gal in volume or 50 gal in the aggregate, stored on or used at the *property* or at the facility?	☒ Yes	☐ No
4. Has undocumented soil been brought onto the property at any time? If yes, estimated quantity is _____ cubic yards.	☐ Yes	☒ Unk
5. Has soil been brought onto the property that originated from a contaminated site or that is of an unknown origin?	☐ Yes	☒ Unk
6. Are there currently, or have there been previously, any pits, ponds, or lagoons located on the *property* in connection with waste treatment or waste disposal?	☐ Yes	☒ Unk
7. Is there currently, or has there been previously, any stained soil on the *property*?	☒ Yes	☐ No
8. Are there currently, or have there been previously, any registered or unregistered storage tanks (above or underground) located on the *property*?	☒ Yes	☐ No
9. Are there currently, or have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the *property* or adjacent to any structure located on the *property*?	☐ Yes	☒ Unk
10. Are there currently, or have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?	☐ Yes	☒ Unk
11. Are there any domestic, irrigation or monitoring wells on the property?	☒ Yes	☐ No
12. If the *property* is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government environmental/health agency?	☐ Yes	☒ No
13. Have you been informed of the past or current existence of *hazardous substances* or *petroleum products* or environmental violations with respect to the *property* or any facility located on the *property*?	☒ Yes	☐ No
14. Have there been any *environmental site assessments* of the *property* or facility that indicated the presence of *hazardous substances* or *petroleum products* on, or contamination of, the *property* or recommended further assessment of the *property*?	☒ Yes	☐ No
15. Have there been any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any *hazardous substance* or *petroleum products* involving the *property*?	☐ Yes	☒ No
16. Has there been any past agricultural use of the *property*, such as orchards or seed crop cultivation?	☐ Yes	☒ Unk
17. Have any *hazardous substances* or *petroleum products*, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried and/or burned on the *property*?	☐ Yes	☒ Unk
18. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?	☐ Yes	☒ Unk

If a "Yes" response was provided to any of the above questions, please provide details below:

#1: Heavy construction equipment sales/parts/service

#3: See #1

#7: Previous fuel and waste oil spill. Mitigated.

#8: Five USTs removed 1989.

#11: Existing monitoring wells (two off-site), associated with former USTs.

#13: Soil, groundwater, and soil gas impacts documented (see ENGEO reports).

#14: See #13.

I certify that the information herein is true and correct to the best of my knowledge as of the date signed below.

Name (Printed/Typed): Darcy Horton

Signature: Darcy Horton Date: 4/22/22



APPENDIX H

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL

SHAWN MUNGER, CHG
Principal

EDUCATION
BS Geology University of California, Davis 1985

EXPERIENCE
Years with ENGEO: 36

REGISTRATIONS & CERTIFICATIONS
Certified Hydrogeologist, CA 413
Professional Geologist, CA 5810
HAZWOPER 40 Hour Training, CA 100830513934
HAZWOPER 8 Hour Training, CA 180720576014

SPECIALIZATIONS
- Environmental Assessments and Remediation
- Environmental Restoration
- Water Quality Studies
- Water Wells/Hydrogeology

Since 1985, Shawn has been managing groundwater supply evaluations, hydrogeologic studies, chemical assessments, Phase I and II Site Assessments, UST site investigations, risk-based corrective action (RBCA), VOC remediation, and agricultural impact evaluations. He serves as Principal-in-Charge or Project Manager with extensive expertise in environmental and hazardous materials projects involving groundwater, hydrology, contaminant fate and transport, and complex remediation programs. A renowned expert in his field, Shawn has successfully solved many difficult environmental challenges to achieve desired project outcomes.

SELECT PROJECT EXPERIENCE

Heritage Fields, Great Park Neighborhoods—Irvine, CA
Principal in Charge. Shawn provided principal oversight of the preparation of over 50 phase I and Phase II Environmental Site Assessments for the former El Toro Marine Corps Air Station (MCAS). The site is currently under development as a large-scale mixed-use development including several schools, residential subdivisions, recreational facilities and commercial development. Shawn also provided consultation regarding environmental site characterization and remediation at the site.

Hanover Cannery Park Project No. 14-473—San Jose, CA
Principal in Charge. Shawn provided principal oversight and review of the Phase I ESA, and soil, groundwater, and soil gas sampling. The historical use of the site resulted in chlorinated solvent impacts to groundwater and soil gas. Results were communicated to the client as well as the oversight regulatory agency to come with the proposed remediation. The project consists of redeveloping an approximately 9-acre commercial/industrial property listed on the California Regional Water Quality Control Board's GeoTracker database as an open site assessment cleanup program site. Elevated concentrations of VOCs (specifically PCE and TCE) have been previously detected in soil, groundwater, and soil gas at the property.

Mission Village—Valencia, CA
Principal in Charge. Shawn provided principal oversight of multiple phase I/II environmental site assessments and site remediation. The project site consists of a large scale, residential and mixed-use subdivision, which was a former oil/gas production field, with more than 40 abandoned oil/gas wells.

Vita Pakt—Covina, CA
Principal in Charge. Shawn provided principal oversight of phase I/II environmental site assessments and risk evaluations. The approximately 5.9-acre site formerly operated as fruit processing and dehydration business (ceased operation by 2016) and is planned to be redeveloped into residential housing. Subsurface soil gas impacts were identified in association with past operations.

Innovation at Warm Springs—Fremont, CA
Principal in Charge. Shawn provided oversight of the preparation of Phase I and II ESAs, along with a Preliminary Endangerment Assessment (PEA) for a new elementary school site. The approximately 109-acre site is currently occupied by a parking lot, warehouse buildings, agricultural fields, and UPRR railroad tracks. The southern portion of the Property was a part of the former auto manufacturing and distribution facility jointly owned by Toyota and General Motors. The northern portion of the Property has been used for agricultural purposes since at least the late 1930s. Additionally, railroad tracks are present along the eastern boundary of the Property.

Former gasoline ASTs existed on the Property, along with a pump station and fuel dispensers, which were removed in 2010. The former car wash area also had a wastewater recovery system, which included oil/water separators, clarifiers, and interceptor tanks. One UST was located in the southeast portion of the agricultural fields, which was removed in 2004. Four 10,000-gallon diesel and gasoline USTs were formerly located in the southwestern portion of the Property in the haul-away parking lot area. Mixed-use redevelopment is planned for the Property. A phase II ESA was recommended for the Site, including soil and groundwater sampling.

277 Fairchild 228/236 Evandale Ave—Mountain View, CA
Principal in Charge. Shawn provided oversight of soil, groundwater and soil gas characterizations, risk evaluations and Response Action Plan preparation under USEPA oversight. The site is within the Middlefield-Ellis-Whisman (MEW) Superfund site, contaminated with chlorinated solvents from legacy semiconductor plant operations. On-going remedial activities included soil vapor extraction, groundwater treatment using bioaugmentation, and groundwater/soil gas monitoring. The proposed site development consists of detached single-family homes and townhomes.

The Rivers—West Sacramento, CA
Principal in Charge. Shawn provided oversight of during the preparation of a Removal Action Workplan (RAW) in coordination with CAL-EPA DTSC. The property is a proposed charter school site. ENGEO performed environmental site characterization work to address residual pesticide contamination die to historic termiticide applications. A Removal Action Workplan was developed under the oversight of CAL-EPA to excavate and remove the pesticide impacted soils. Remedial activities were completed in 2018 and DTSC issued a “no further action” letter.

Sparklizing Cleaners and Laundry—Fremont, CA
Group Leader, Principal in Charge, Project Manager. Shawn provided principal review and data analysis for this former dry cleaning facility, which had released tetrachloroethylene (PCE) to site soil and groundwater.

The project site consists of a dry-cleaning facility located within a commercial/retail center. Dry-cleaning operations have been conducted at the facility since 1974 and have resulted in chlorinated solvent impacts to soil and groundwater beneath the site. As a result, the CRWQCB opened a Spills, Leaks, Investigations, and Cleanups (SLIC) case and the site was referred to the Alameda County Water District (ACWD) for lead agency oversight. A series of soil and

groundwater investigations identified a source area beneath the drycleaner suite and an adjoining retail suite. ENGEO prepared a Corrective Action Plan (CAP) and coordinated the in-situ chemical oxidation program, which consisted of injecting 35,000 gallons of potassium permanganate to the subsurface to oxidize chlorinated solvents. The project is currently in the post remediation monitoring phase.

Pleasant Hill BART Station—Walnut Creek, CA
Principal in Charge. Shawn provided oversight, data analysis and consultation during the preparation of a Phase II Environmental Site Assessment. The property is an existing BART station that encompasses 20 acres, including the platform/station area, electrical facilities, a parking garage and additional paved parking areas.

Westshore—Richmond, CA
Project Manager. Shawn conducted Phase I and II Site Assessments, risk evaluations and prepared a soil management plan. The property was a former automotive manufacturing plant proposed for a multi-unit condominium development, including a 6-story podium structure to include five residential floors with 269 units and one parking floor.

Rancho Miramonte—Chino, CA
Principal in Charge. Shawn performed Principal review of ENGEO's environmental documents for this large former dairy facility, proposed for a large-scale detached single-family residential subdivision. Issues with the site included former leaking USTs, nitrate impacts from manure disposal, and surface water impairments. The project was approved for development by the County Environmental Health Department.

Hercules Property—Hercules, CA
Project Manager. Shawn provided oversight of a Phase I Environmental Site Assessment, site asbestos survey, site characterization, and demolition observation/contaminant assessment. The project area consists of ±167 acres located near and along the southeastern shore of San Pablo Bay in Hercules. The property was once a portion of a 1300-acre manufacturing facility that was operated by DuPont from 1879 to 1913 and Hercules Incorporated from 1913 to 1979. The planned development includes single/multi-family residential development with some commercial components.

Highlands Ranch—Pittsburgh, CA
Principal in Charge. Shawn provided oversight, data analysis, and collaboration with RWQCB personnel. The project site consists of a 140-acre portion of the former Chevron Los Medanos Tank Farm located in Pittsburg, California. The site was historically occupied by 24 crude oil tanks and four wax ponds. Remediation of the crude oil tank and wax pond locations was conducted according to a remedial action plan (RAP) and oversight was provided by the CRWQCB. Remediation was performed over a period of four months and consisted of excavating approximately 110,000 cubic yards of impacted soil and placing the material in windrows for ex-situ bioremediation.



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GEOTECHNICAL
ENVIRONMENTAL
WATER RESOURCES
CONSTRUCTION SERVICES
COASTAL/MARINE GEOTECHNICS

Project No.
15799.004.000

July 12, 2021
Revised October 21, 2022

Caden Proctor
Cedar Blvd Townhomes, LLC
2801 West Coast Highway, Suite 270
Newport Beach, CA 92663

Subject: 38600 Cedar Boulevard
Newark, California

PHASE II ENVIRONMENTAL SITE ASSESSMENT

We are pleased to submit this phase II environmental site assessment (ESA) for soil, groundwater, and soil gas characterization at the subject property (Property), located at 38600 Cedar Boulevard in Newark, California (Figure 1).

BACKGROUND

The Property is approximately 3.5 acres in area and consists of two parcels identified with Assessor's Parcel Numbers (APNs) 92A-2585-12-1 and 92A-2585-31. The Property is an open Leaking Underground Storage Tank (LUST) case with the Alameda County Water District (ACWD) and the San Francisco Bay Regional Water Quality Control Board (RWQCB); *Nortrax West (T0600100516)*.

The Property is designated as medium density residential under the City's current general plan, permitting 14 to 30 homes per net acre. The proposed development is consistent with the City's housing element and provides seventy-six (76) three-story townhomes at an approximate density of 20 homes per acre designing around and accommodating the many existing underground utilities in their current location.

This assessment was performed to address remaining impediments to closure and future development, which included additional soil, groundwater, and soil gas testing near the former underground storage tanks (USTs, Figure 2). Further sampling of the existing eight groundwater monitoring wells was also part of the scope.

BACKGROUND

Nortrax West (GeoTracker case ID T0600100516) is the open cleanup case pertaining to the Property. The Property has been occupied by various construction and agricultural equipment rental, sales, and/or repair businesses throughout its history. The first known tenant was International Harvester Company. The site was purchased by the Horton family in the 1970s. Between 1975 and 1979, the western warehouse was constructed. Horton Equipment Company operated at the Property until 1985, at which time Empire Tractor and Equipment Company began leasing the site. Nortrax purchased Empire in 2001 and were subsequently purchased by Papé Machinery in 2005, which remains the current tenant.

The following summarizes relevant past documentation and reports associated with the Property.

One 10,000-gallon diesel underground storage tank (UST), one 10,000-gallon gasoline UST, and two 550-gallon diesel USTs were formerly located in the eastern area of the 38683 Timber Street parcel. A former 550-gallon waste oil tank was located in the southern area of the parcel, south of the building, near Cedar Boulevard. The 10,000-gallon gasoline UST, 10,000-gallon diesel UST, 550-gallon diesel UST, and 550-gallon waste oil tank were known to exist when the Property was purchased by the current owner in the 1970s. An additional 500-gallon diesel UST was discovered during the UST removal in 1989. Four groundwater monitoring wells (MW-1 through MW-4) were first installed in the vicinity of the known fuel USTs in 1986, in accordance with ACWD regulations for USTs. Soil samples were collected from the unsaturated zone at depths targeted near the bottom of each nearest UST (7 to 13 feet bgs). This initial sampling did not detect total petroleum hydrocarbons (TPH) above laboratory reporting limits.

A semi-annual groundwater monitoring event in March 1988 did not indicate significant concentrations of TPH or VOCs. However, a subsequent semi-annual groundwater monitoring event conducted in October 1988 reported 1/16th inch of light non-aqueous phase liquid, reportedly diesel, in the sample collected from MW-2. The sample from MW-2 had a concentration of 230,000 µg/L of TPH as gasoline (TPH-g). An UST release report was filed by the Newark Fire Department with ACWD. The 500-gallon diesel UST was ordered to be emptied immediately and removed. All USTs were removed from the site in April 1989 under oversight of the Fire Department and ACWD. During tank excavations and removals, the additional 500-gallon diesel UST was discovered. In total, five tanks were removed, and visibly contaminated soil was excavated for disposal (Ramboll, 2016).

Quarterly groundwater monitoring was conducted intermittently between 1991 and 1993, 1997 and 1998, and in 2001, which indicated that contamination was not sufficiently remediated. According to the site history section on GeoTracker, TPH-g was detected in groundwater at concentrations up to 4,300 µg/L in 1992. In 1993, total petroleum hydrocarbons as diesel (TPH-d) were detected in groundwater in concentrations up to 120,000 µg/L. Methyl tert-butyl ether (MTBE) was either non-detect or detected at very low levels in soil and groundwater. Chlorinated volatile organic compounds (VOCs) were also detected onsite. Tetrachloroethylene (PCE) was detected in groundwater at a concentration of 160 µg/L; 1,1-trichloroethane (TCA) was detected up to 180 µg/L; and 1,1, -Dichloroethane (DCA) was detected up to 57 µg/L (Ramboll, 2016).

Hydro Analysis, Report of Subsurface Investigation, Nortrax West, 38600 Cedar Boulevard, Newark, California; November 16, 2004.

Hydro Analysis, Inc. conducted an investigation in 2004 to delineate the horizontal and vertical extent of groundwater impacts and to potentially install additional groundwater monitoring wells. Fourteen borings were installed on site and downgradient to the south of the site to depths of 20 feet bgs. Soil samples were collected at 5 and 10 feet in the borings and 15 feet in select borings. All soil samples were analyzed for TPH, BTEX, and MTBE. Select samples were analyzed for VOCs. Grab groundwater samples were collected at each location and analyzed for TPH, BTEX, MTBE, and VOCs. Two deeper groundwater samples were collected at 55 to 60 feet bgs from CPT locations and analyzed for TPH, BTEX, MTBE, and VOCs. Results of the soil sampling in the vicinity of the former fuel UST cluster reported low concentrations of TPH-g and TPH-d in shallow samples and low concentrations of BTEX in the 5 feet bgs sample. Soil

sampling in the vicinity of the former waste oil UST reported low concentrations of TPH and BTEX. Downgradient soil samples did not report TPH or BTEX above reporting limits. Low concentrations of PCE were reported in deeper samples in the vicinity of the former waste oil UST. 1,1-DCA was detected in the 15 feet bgs sample. The only exceedance of regulatory screening criteria for all soil samples was the concentration of TPH-d in the 5 feet bgs sample. Results of groundwater samples reported low concentrations of TPH-d in the vicinity of the former fuel UST cluster. Low concentrations of TPH, BTEX, and VOCs were also detected in samples collected in the vicinity and downgradient of the former waste oil UST. In general, concentrations of TPH and VOCs were consistent with those reported during periodic groundwater monitoring events at the site. TPH, MTBE, BTEX, or VOCs were not detected in deep groundwater samples from the Newark Aquifer.

Hydro Analysis, Report of Subsurface Investigation, Nortrax West, 38600 Cedar Boulevard, Newark, California; November 30, 2007.

A 2007 monitoring well installation was performed at the request of ACWD to determine the lateral extent of the VOC contamination. Four additional monitoring wells were installed at the site upgradient, cross gradient, and downgradient of the former waste oil UST. Soil samples were collected at 5-foot intervals to 20 feet bgs and analyzed for TPH, BTEX, MTBE, and VOCs. No concentrations of TPH or BTEX were detected in soil samples with the exception of one low TPH-d concentration. Low VOC concentrations were detected at two of the locations. No concentrations of TPHs or VOCs were above regulatory screening criteria. Groundwater sampling indicated low concentrations of TPH-d in two well locations and no other TPH, BTEX, or MTBE above reporting limits within the remaining. All four monitoring wells had at least one detection of a VOC, including low concentrations of PCE, 1,1,1-TCA, TCE, 1,1-DCA, and cis-1,2-DCE. PCE was detected in all four monitoring wells (Ramboll, 2016).

TRC; First Semi-Annual 2018 Groundwater Monitoring Report; 38600 Cedar Boulevard, Newark, California; June 22, 2018

The TRC report documents groundwater sampling performed in the summer of 2018. Groundwater monitoring was performed for wells MW-1 through MW-8. For wells MW-2 and MW-4, located in the upgradient portion of the site, analyses detected no TPH-g, benzene, ethylbenzene, xylenes, MTBE, or naphthalene. With the exception of one detection of TPH-d at 2,400 µg/L in MW-3, analyses detected no analytes exceeding respective MCLs.

Wells MW-1 and MW-5 through MW-8 are located in the downgradient portion of the Site. With the exception of 170 µg/L of TPH-mo at MW-1, analyses detected no concentrations of TPH-g, TPH-d, TPH-mo, BTEX, MTBE, or naphthalene in any of the downgradient wells.

Stantec, Documentation of Shallow Soil Sample Collection and Soil Vapor Sampling; 38600 Cedar Boulevard; Newark, California; October 18, 2018

Based on ACWD direction, Stantec attempted to redevelop three wells, MW-1 through MW-3. Only MW-2 was able to be redeveloped because MW-1 and MW-3 had bends in the wells. At the time of the report, Stantec was in discussion with ACWD to determine a path forward to repairing and redeveloping the damaged wells. One soil sample was obtained at 10 feet bgs. PCE was detected at 0.023 mg/kg. No VOCs, TPHs, or PAHs were detected. One soil vapor well was installed at the same location and analyzed for VOCs and helium. 1,1-DCE, carbon disulfide, 1,1-DCA, cis-1,2-DCE, 1,1,1-TCA, TCE, and PCE were detected. 1,1-DCA, TCE, and

PCE were detected above their respective ESLs.

Stantec proposed to install six additional soil vapor wells and the redevelopment of monitoring wells MW-1 and MW-3.

ENGEO, Phase II Environmental Site Assessment, 38600 Cedar Boulevard, Newark, California, August 28, 2020; Project No. 15799.001.000.

ENGEO conducted a phase II environmental site assessment in August 2020 to further address subsurface impacts, which included additional soil and soil gas testing near the former waste oil UST, further delineation of soil vapor impacts, and assessment and sampling of the existing eight monitoring wells.

Soil sampling included collection of a total of 16 samples from four boring locations at depths of 1, 5, 10, and 15 feet bgs. The samples were analyzed for TPH-g, VOCs, TPH-d, TPH-mo, and metals.

Grab groundwater sampling included collection of three samples from the five attempted boring locations (GW-1 through GW-5). Locations GW-3 and GW-5 did not exhibit sufficient recharge during sample collection. The three samples were analyzed for TPH-g, VOCs, TPH-d, and TPH-mo. Monitoring wells MW-1 through MW-7 were sampled and submitted for the same analyses as the grab groundwater samples.

Thirteen soil gas wells were also installed on the Property. Seven wells were installed as nested wells near the former waste oil tank at depths of 6 and 10 feet bgs and the remaining six soil vapor probes were installed to 6 feet bgs.

The soil samples exhibited detections of chromium, lead, nickel, and zinc. TPH-g, TPH-d, and TPH-mo were detected in various samples. One VOC, tert-butanol, was detected in three samples. All concentrations were below SFBRWQCB residential ESLs, with the exception of TPH-d.

The grab groundwater samples contained low concentrations of VOCs including PCE, TCE, cis-1, 2-DCE, 1,1-DCA, and isopropyl benzene, at concentrations below RWQCB Priority Maximum Contaminant Levels (MCLs). TPH was not detected above laboratory reporting limits. The monitoring well samples contained low concentrations of VOCs including PCE, TCE, cis-1,2-DCE, 1,1-DCE, vinyl chloride, 1,1-DCA, and 1,1,1-trichloroethane. MW-1 exhibited exceedances of PCE, TCE, cis-1,2-DCE, vinyl chloride, and 1,1-DCA, with respect to MCLs. PCE was additionally reported in exceedance of its screening levels in MW-7. Cis-1,2-dichloroethene was reported in exceedance of its MCL screening level in MW-7. TPH-g was reported at 209 µg/L in MW-1, below the MCL. Minor concentrations of TPH-d were reported in MW-2 and MW-3, both below the MCL. TPH-mo was not detected above laboratory reporting limits in any samples. Groundwater impacts appear to be localized to the immediate vicinity of the former waste oil tank and continue to attenuate based on historical monitoring events.

The soil gas samples exhibited various VOC detections. PCE, TCE, cis-DCE, and vinyl chloride were detected in a majority of the samples. PCE was in exceedance of RWQCB residential ESLs[1] in all except one sample (SG-10), at concentrations ranging between 27 and 36,000 micrograms per cubic meter (µg/m^3). TCE was in exceedance of ESLs for sample locations SG-2@6', SG-2@10', SG-3@10', SG-4@6', SG-4@10', SG-5@6', and SG-5@10', at concentrations ranging between 35 and 6,600 µg/m^3. Cis-1,2-DCE was reported in exceedance of its ESL at SG-4@10', SG-5@6', and SG-5@10', at concentrations ranging between 7,000 and 33,000 µg/m^3. Vinyl chloride was reported in exceedance of its ESL at SG-5@6' (1,900 µg/m^3) and SG-5@10' (2,000 µg/m^3). Other VOCs detected in samples exceeding ESLs included 1,1,2-trichloroethane, 1,1-DCA, benzene, carbon tetrachloride, chloroform, and naphthalene. TPH-g was reported in exceedance of its ESL for SG-1@6', SG-1@10', SG-2@10', SG-3@6', SG-4@10', SG-5@6' and SG-5@10'. Overall, soil gas impacts appear to the most concentrated in the vicinity of the former waste oil UST. Tables A through D provide a summary of the 2020 ENGEO data results.

ACWD - Request for Soil Gas Investigation, September 22, 2021.

In a September 2021 letter to Ohana Land Company, LLC (former Property owner), ACWD requested that an additional soil vapor and indoor air investigation be conducted. ACWD cited the soil gas results of ENGEO's previous phase II investigation, noting that the elevated VOC concentrations may pose a risk to human health. ACWD noted that the extent of VOC contamination in soil vapor should be defined onsite and offsite, and any potential vapor intrusion to indoor air pathways should be evaluated. Depending on the results of the investigation, a Corrective Action Plan to remediate and/or mitigate the soil vapor impact may be required.

ENGEO, Supplemental Environmental Assessment Work Plan, 38600 Cedar Boulevard, Newark, California; November 23, 2021 (Revised March 3, 2022). Project No. 15799.002.000.

ENGEO prepared a work plan to address remaining impediments to closure as part of ACWD's request. The following scope of work was proposed.

- Collection of soil gas samples from the existing 14 soil gas wells SV-1 and SG-1 through SG-13 for analysis of VOCs.
- Installation of eight additional permanent soil gas wells on the Property, including six on-site and two off-site along the southern side of Cedar Boulevard for analysis of VOCs.
- Collection of groundwater samples from monitoring wells MW-1 through MW-7 for analysis of TPH-g, VOCs, TPH-d, and TPH-mo (wells MW-8 could not be located and appeared to have been buried or damaged due to recent City of Newark landscape and sidewalk improvements).

2022 FIELD EXPLORATIONS

Additional drilling and sampling events took place in 2022 on July 13, July 15, August 5, August 23, and August 26. Prior to drilling, an ENGEO representative contacted the USA North Service Alert in addition to a private utility locator to facilitate notification to operators of

[1] San Francisco Bay Regional Water Quality Control Board ESLs for Subslab/ Soil Gas Vapor Intrusion ESL Levels, Residential (Interim Final 2019, Rev 1).

underground utilities at the Property. Drilling activities were performed by a C-57-licensed drilling contractor, utilizing Geoprobe® direct-push technology. All work was performed by an ENGEO environmental professional under the supervision of a registered professional engineer. See attached figure for sample locations (Figure 2).

Monitoring Well Sampling

Monitoring wells were sampled during the 2022 exploration. Monitoring wells MW-1 through MW-7 were purged of three well casing volumes and sampled using a peristaltic pump. Groundwater parameters were measured during purging to verify stabilization. MW-8 could not be located and has been buried or damaged due to recent City of Newark landscape and sidewalk improvements. The groundwater samples were then placed in laboratory-provided sample containers and submitted to Torrent Laboratory, Inc., for analysis of the following.

- TPH-g and VOCs (EPA Method 8260)
- TPH-d and TPH-mo (EPA Method 8015)

Soil Gas Sampling

The nine soil gas wells and the re-install of SG-10 were installed as shown on Figures 2 and 3. All 10 soil gas wells were installed to 6 feet below the ground surface. Twenty-seven total soil gas samples were collected. SG-2@10' was not able to be recovered as the well was destroyed.

All of the soil gas samples were recovered in accordance with Department of Toxic Substances Control (DTSC) *Final Advisory Active Soil Gas Investigations* (July 2015). The general sampling procedures are described as follows:

- The soil gas monitoring probes consisted of ¼-inch-diameter Teflon® tubing equipped with a filter at the base of tubing. Soil gas wells were installed with a direct-push rig, which was advanced with an approximately 2.5-inch-diameter boring, then were hand augered to a diameter of 4.5 inches. The well borings extended to a depth of 6 and 10 feet below the ground surface (bgs) for the wells installed in 2020 and 6 feet bgs for the wells installed in 2022, with a 1-foot sand layer at the base. A 2-inch bentonite seal surrounded the tubing within the well boring.
- After the 48-hour equilibration time elapsed, soil gas samples were collected from the wells. The sample train was connected to the well tubing by threading the permanent Swagelok® fitting on the well casing onto the manifold. The sample train consisted of a stainless-steel twin SUMMA manifold with a built-in flow controller set to 150 milliliters per minute (ml/min).
- Prior to connecting the sample train to the well casing, a shut-in test was performed to assess for potential leaks. The shut-in test consisted of capping the end of the manifold, then applying a vacuum with the purge canister, closing the purge valve, and observing the vacuum gauge for 2 minutes to determine if there was a drop in vacuum.
- Once the sample train was connected to the well casing, three well volumes of soil gas were purged from each well prior to sampling at a flow rate of 150 ml/min. After purging was completed, the purge valve on the manifold was closed and the vacuum canister removed. Samples were collected by opening the sample canister valve and allowing the sample canister to extract soil gas until the vacuum in the sample canister reached approximately

5 inches of mercury. The leak detection compound 1,1-difluoroethane (1,1-DFA) was applied by wrapping a doused rag around the manifold fittings during sample collection.

- Sample canisters were labeled with a unique identification number, sampling time, and/or pre- and post-sample vacuum readings. The soil gas samples were submitted to Torrent Laboratory, Inc., for analysis of TPH-g (EPA Method TO-3M), VOCs (EPA Test Method TO-15), and fixed gases (ASTM D-1946) for the samples collected in 2020. The samples collected in 2022 were analyzed for VOCs (EPA Test Method TO-15), and the newly installed wells were tested for fixed gases (ASTM D-1946).
- Soil gas wells were retained at the Property. A flush-mount well box was installed at the ground surface for each of the wells.

Monitoring Well Sampling Results

The 2022 monitoring well samples contained low concentrations of VOCs, including PCE, TCE, and cis-1,2-DCE, 1,1-DCA, and 1,1,1-trichloroethane (1,1,1-TCA). Both MW-1 and MW-7 exhibited exceedances of PCE and cis-1,2-DCE with respect to MCLs.

TPH-g was reported at 136 micrograms per liter (µg/L) in 2022, below the applicable ESL. Minor concentrations of TPH-d were reported in MW-6 and MW-7, both below the MCL. TPH-mo was not detected above laboratory reporting limits.

We were unable to locate MW-8 during our field explorations in both 2020 and in 2022; however, previous sampling data indicates MW-8 has not exhibited concentrations above MCLs and is stable. A summary of well sample results is provided in Table C. Laboratory results are presented in Appendix A.

Soil Gas Sampling Results

Review of the soil gas results found detectable VOCs in all of the 19 samples. Chlorinated hydrocarbons PCE, TCE, cis-1,2-dichloroethene (cis-1,2-DCE), chloromethane, chloroethane, 1,1,1-trichloroethane, 1,1-dichloroethane, 1,2,4-trichlorobenzene, 1,1,2-trichloroethane (1,1-DCA), carbon tetrachloride, vinyl chloride, benzene, chloroform, ethyl benzene, and hexachlorobutadiene were detected in all but one sample. Samples with residential ESL exceedances are shown in Table B.

FINDINGS AND CONCLUSIONS

Soil Samples

Previous soil sampling conducted at the Property have not identified residual soil impacts of significance. No soil mitigation appears necessary for the Property; however, we anticipate a Soil Management Plan (SMP) will be prepared for future site development to address potential unforeseen subsurface impacts.

Grab Groundwater Samples

The 2020 grab groundwater samples did not exhibit TPH-g, TPH-d, TPH-mo, or VOCs in exceedance of RWQCB ESL MCLs. Monitoring wells MW-1 and MW-7, both within the vicinity of the former waste oil UST, exhibited concentrations of PCE above the MCL (5 µg/L) at

concentrations of 61 and 10 µg/L, respectively. TCE, cis-1,2-DCE, vinyl chloride, and 1,1-DCA were also detected in concentrations exceeding MCLs for MW-1. cis-1,2-DCE was detected above the MCL for MW-7. We were unable to locate MW-8 to further assess downgradient impacts; however, PCE, the primary constituent of concern, was reported at 2 µg/L in TRC's 2018 monitoring event, below the MCL, at MW-8. Impacts appear to be localized to the immediate vicinity of the former waste oil tank and continue to attenuate.

Monitoring Well Samples

The 2022 groundwater samples did not exhibit TPH-g, TPH-d, TPH-mo, or VOCs in exceedance of RWQCB ESL MCLs. Monitoring wells MW-1 and MW-7, both within the vicinity of the former waste oil UST, exhibited concentrations of PCE above the MCL (5 µg/L) at concentrations of 61 and 10 µg/L, respectively. TCE, cis-1,2-DCE, vinyl chloride, and 1,1-DCA were also detected in concentrations exceeding MCLs for MW-1. cis-1,2-DCE was detected above the MCL for MW-7. We were unable to locate MW-8 to further assess downgradient impacts; however, PCE, the primary constituent of concern, was reported at 2 µg/L in TRC's 2018 monitoring event, below the MCL, at MW-8. Impacts appear to be localized to the immediate vicinity of the former waste oil tank and continue to attenuate based on historic monitoring events. Figure 3 provides the approximate area of residual impacts based on PCE concentrations above MCLs. No further groundwater monitoring is recommended for the Property.

Soil Gas Samples

Numerous VOCs were detected in soil gas samples exceeding ESLs including tetrachloroethylene (PCE), trichloroethylene (TCE), vinyl chloride, 1,1-dichloroethane, 1,1,2-trichloroethane (1,1-DCA), 1,2,4-trichlorobenzene, cis-1,2-dichloroethene (Cis-1,2-DCE), benzene, chloroform, ethyl benzene, and hexachlorobutadiene. Elevated concentrations of PCE were detected in 23 of the 27 samples.

These impacts appear to the most concentrated in the vicinity of the former waste oil UST, and there is some evidence of reductive de-chlorination occurring within the plume. Figure 3 provides an approximation of soil vapor plume, based on the data available, for PCE concentrations in exceedance of ESLs.

RECOMMENDATIONS

Former Leaking Underground Tank (LUST) Closure

The area of the former diesel/gasoline fuel tank area in the southeastern area of the Property appears to meet applicable *RWQCB Low Threat Closure Policy* criteria, as the source has been removed and groundwater concentrations are stable/decreasing. No additional monitoring or mitigation appears necessary for petroleum-related constituents; however, elevated PCE has been detected in soil gas within this area (SG-11), which may require further assessment and/or mitigation. No further groundwater monitoring is recommended for the Property.

Soil Gas Impacts - Former Waste Oil Tank

PCE concentrations in exceedance of the ESL have been noted for a number of the soil gas sampling locations. Based on current data, an approximate PCE vapor plume delineation was developed, as depicted on Figure 4. The plume extends from the area of the former waste oil tank location toward the north. Based on the soil gas samples recovered along Cedar Boulevard (SG-14, SG-15), no significant soil gas concentrations exist to the south of the Property; therefore, the plume is limited to the subject Property.

A soil vapor extraction (SVE) system will likely be required across portions of the southern-central area to mitigate the noted PCE impacts. A remedial action workplan (RAW) should be prepared to address SVE methodology and goals. A long-term vapor intrusion mitigation (VIMS) system will likely be required for structures overlying the vapor plume to address residual post-remediation impacts.

Sincerely,

ENGEO Incorporated

Monica Kunzel

Divya Bhargava, PE

Shawn Munger, CHG

sm/mk/db/ca

Attachments: Selected References
Figures 1 - 4
Tables A - D
Appendix A – Torrent Laboratory, Inc., Laboratory Reports

SELECTED REFERENCES

ACWD, Request for Soil Gas Investigation, September 22, 2021.

ENGEO. 2020. Phase I Environmental Site Assessment, 38600 Cedar Boulevard, Newark, California. April 7, 2020. Project No. 15799.001.000.

ENGEO. 2020. Phase II Environmental Site Assessment, 38600 Cedar Boulevard, Newark, California. August 28, 2020. Project No. 15799.001.000.

ENGEO. 2022. Supplemental Environmental Assessment Work Plan, 38600 Cedar Boulevard, Newark, California. November 23, 2021, Revised March 3, 2022. Project No. 15799.002.000.

ENGEO. 2022. Phase I Environmental Site Assessment, 38600 Cedar Boulevard and 3863 Timber Street, Newark, California, May 13, 2022

Hydro Analysis. 2004. Report of Subsurface Investigation, Nortrax West, 38600 Cedar Boulevard, Newark, California. November 16, 2004.

Hydro Analysis. 2007. Report of Subsurface Investigation, Nortrax West, 38600 Cedar Boulevard, Newark, California. November 30, 2007.

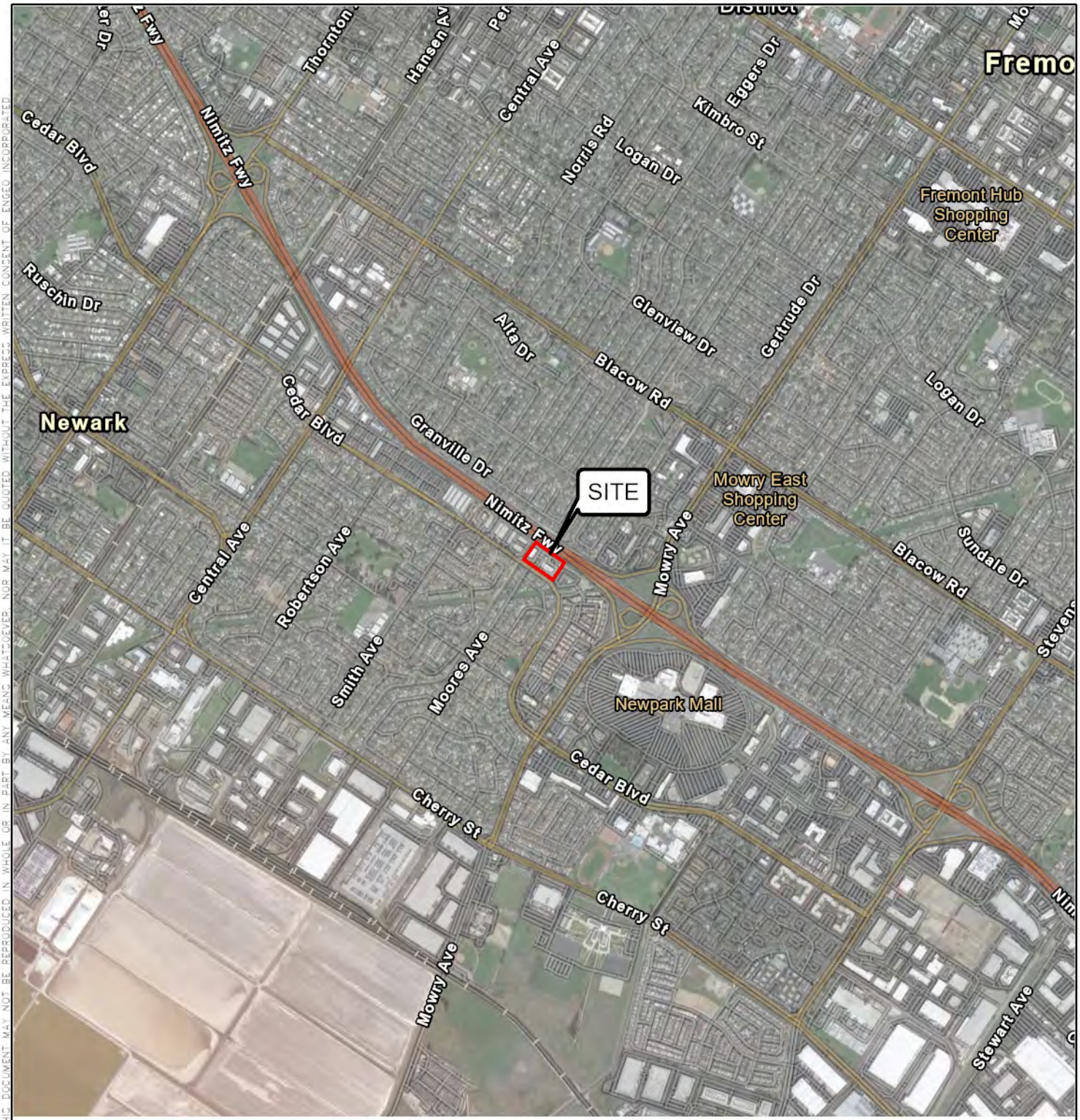
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Stantec. 2018. Documentation of Shallow Soil Sample Collection and Soil Vapor Sampling; 38600 Cedar Boulevard; Newark, California. October 18, 2018.

TRC. 2018. First Semi-Annual 2018 Groundwater Monitoring Report; 38600 Cedar Boulevard, Newark, California. June 2018.

FIGURES

Figure 1 – Vicinity Map
Figure 2 – Site Plan
Figure 3 – Groundwater PCE Concentrations
Figure 4 – Soil Gas PCE Concentrations



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BASEMAP SOURCE: GOOGLE EARTH MAPPING MAY 2022

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VICINITY MAP

38600 CEDAR BOULEVARD

NEWARK, CALIFORNIA

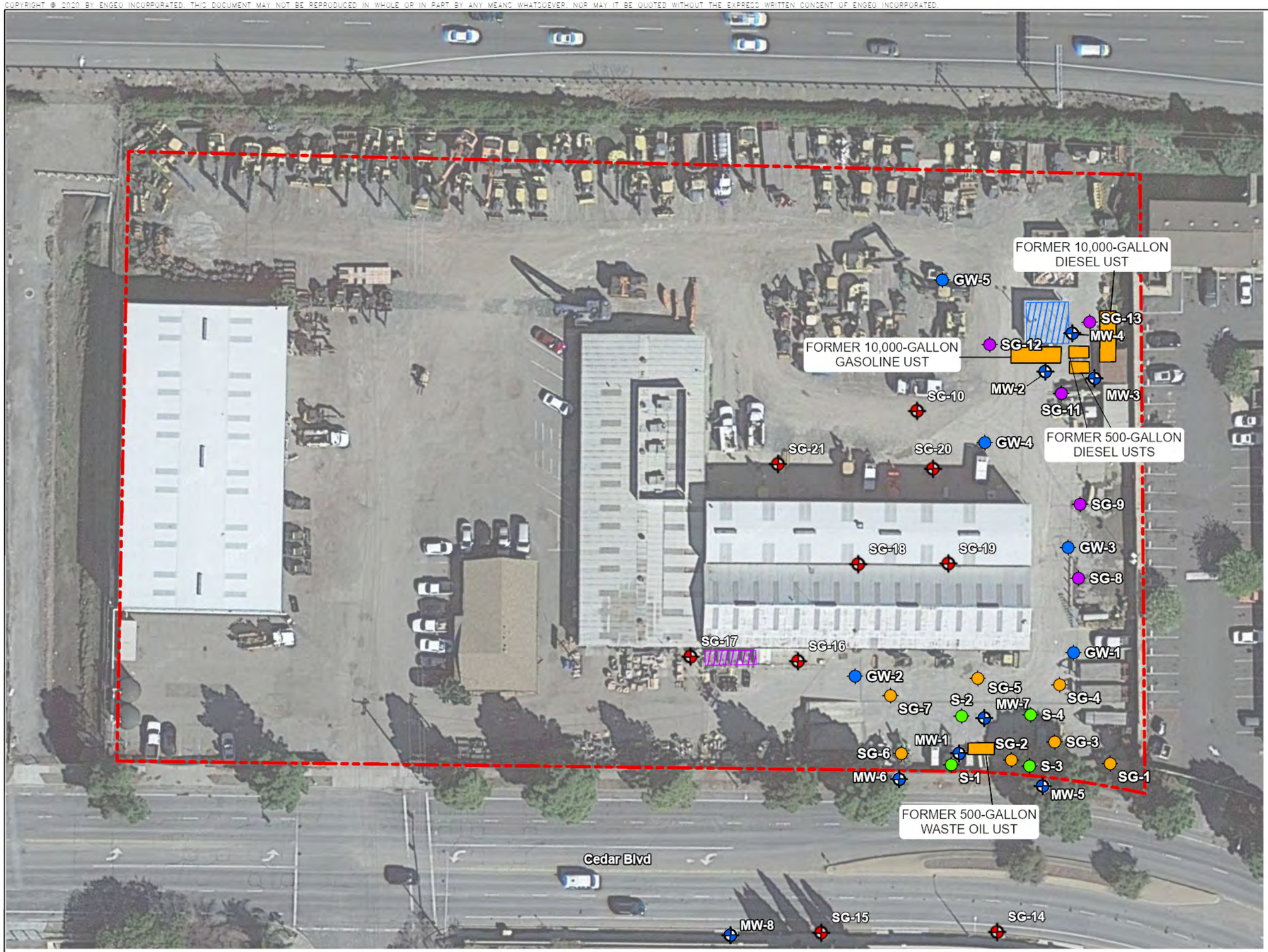
PROJECT NO. : 15799.004.000		FIGURE NO. 1
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EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- SOIL GAS BORING (ENGEO, 2022)
- MONITORING WELL (ENGEO, 2020)
- GRAB GROUND WATER SAMPLE LOCATION (ENGEO, 2020)
- SOIL BORING (ENGEO, 2020)
- 6-FOOT SOIL GAS WELL (ENGEO, 2020)
- NESTED 6' AND 10' SOIL GAS WELLS (ENGEO, 2020)
- NON-OPERATIONAL ABOVE-GROUND STORAGE TANKS
- OPERATIONAL ABOVE-GROUND STORAGE TANKS
- PROJECT SITE

BASEMAP SOURCE: GOOGLE EARTH MAPPING MAY 2022

ENGEO Expect Excellence

SITE PLAN
38600 CEDAR BOULEVARD
NEWARK, CALIFORNIA

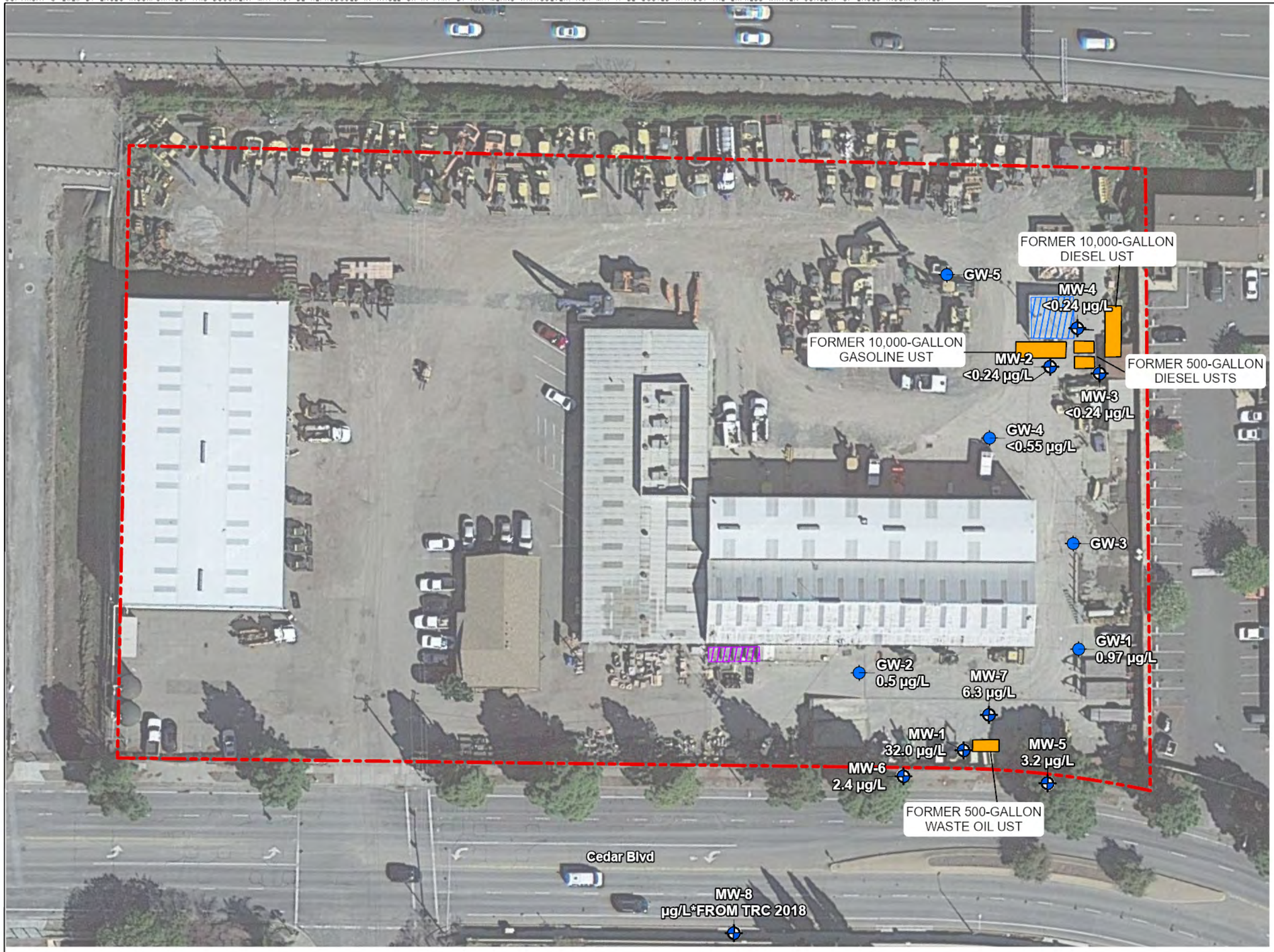
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FIGURE NO. 2

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EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- MONITORING WELL (ENGEO, 2020)
- GRAB GROUND WATER SAMPLE LOCATION (ENGEO, 2020)
- NON-OPERATIONAL ABOVE-GROUND STORAGE TANKS
- OPERATIONAL ABOVE-GROUND STORAGE TANKS
- PROJECT SITE

NOTES
MW-8 COULD NOT BE LOCATED.

BASEMAP SOURCE: GOOGLE EARTH MAPPING MAY 2022

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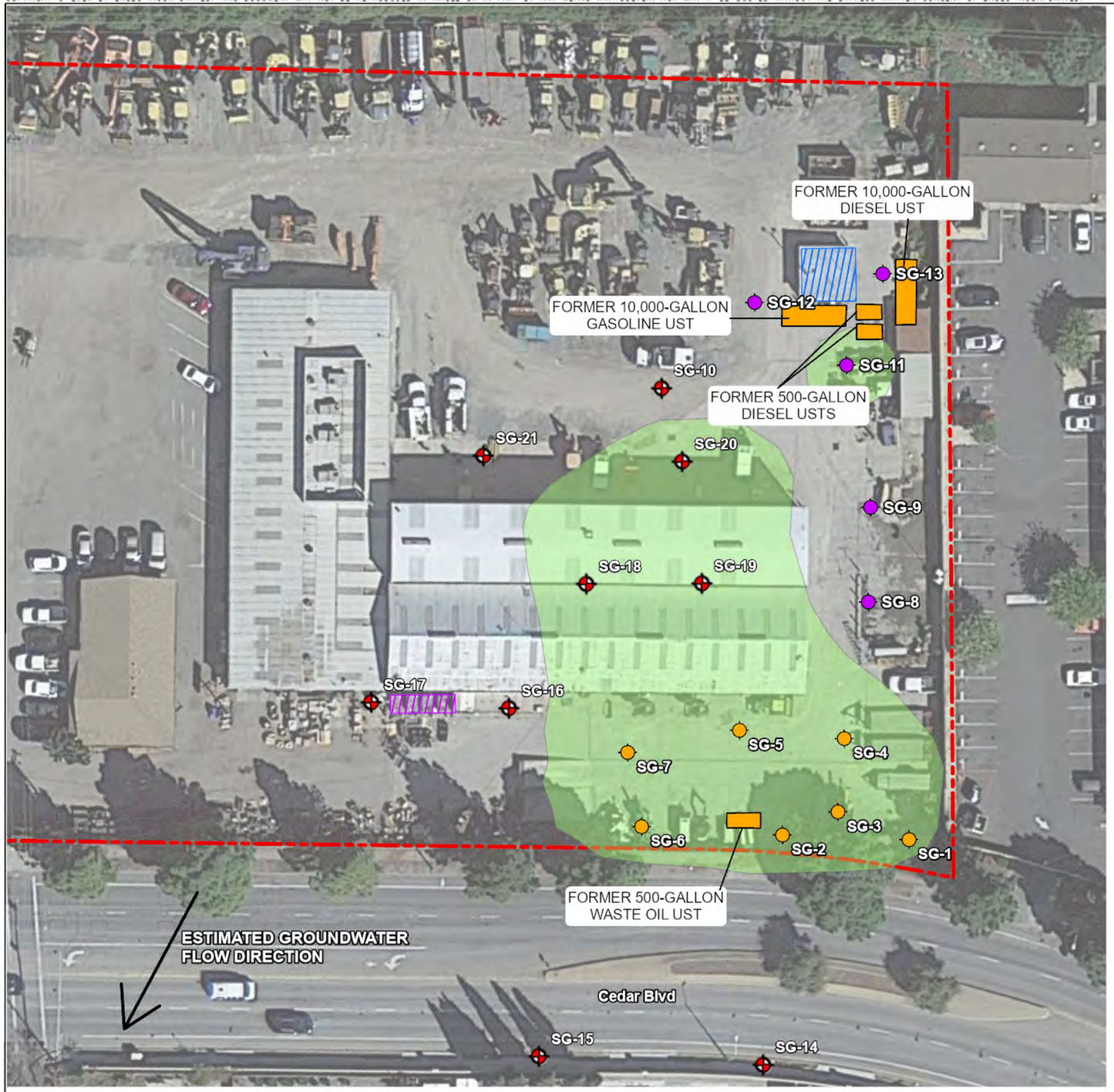
GROUNDWATER PCE CONCENTRATIONS
38600 CEDAR BOULEVARD
NEWARK, CALIFORNIA

PROJECT NO. : 15799.004.000
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FIGURE NO. 3

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Sample ID	2020 SAMPLING
SG-1 @ 6'	530
SG-1 @ 10'	920
SG-2 @ 6'	1800
SG-2 @ 10'	9100
SG-3 @ 6'	11000
SG-3 @ 10'	1300
SG-4 @ 6'	150
SG-4 @ 10'	3100
SG-5 @ 6'	9800
SG-5 @ 10'	36000
SG-6 @ 6'	2000
SG-6 @ 10'	1500
SG-7 @ 6'	15000
SG-7 @ 10'	-
SG-8	150
SG-9	39
SG-10	7.1
SG-11	78
SG-12	27
SG-13	890

Sample ID	2022 SAMPLING
SG-1 @ 6'	1400
SG-1 @ 10'	1800
SG-2 @ 6'	63000
SG-3 @ 6'	13000
SG-3 @ 10'	9800
SG-4 @ 6'	17000
SG-4 @ 10'	16000
SG-5 @ 6'	47000
SG-5 @ 10'	45000
SG-6 @ 6'	11000
SG-6 @ 10'	11000
SG-7 @ 6'	4400
SG-7 @ 10'	840
SG-8	16
SG-9	46
SG-10	410
SG-11	950
SG-12	67
SG-13	55
SG-14	15
SG-15	<1.5
SG-16	<44
SG-17	<44
SG-18	15000
SG-19	5200
SG-20	2700
SG-21	<44

EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- SOIL GAS BORING (ENGEO, 2022)
- 6-FOOT SOIL GAS WELL (ENGEO, 2020)
- NESTED 6' AND 10' SOIL GAS WELLS (ENGEO, 2020)
- NON-OPERATIONAL ABOVE-GROUND STORAGE TANKS
- OPERATIONAL ABOVE-GROUND STORAGE TANKS
- ESTIMATED PCE SOIL GAS PLUME IN EXCEEDANCE OF MCLS
- PROJECT SITE

NOTES
*SG-7@10' WAS UNABLE TO BE SAMPLED

PCE RESIDENTIAL ENVIRONMENTAL SCREENING LEVELS (ESLS) (RWQCB, 2019): 15 MG/M^3 SAMPLE CONCENTRATIONS IN EXCEEDANCE ARE IN YELLOW

BASEMAP SOURCE: GOOGLE EARTH MAPPING MAY 2022

ENGEO Expect Excellence

SOIL GAS PCE CONCENTRATIONS
38600 CEDAR BOULEVARD
NEWARK, CALIFORNIA

PROJECT NO. : 15799.004.000
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FIGURE NO. 4

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TABLES

Table A – Summary of Soil Analytical Results (August 2020)
Table B – Summary of Grab Groundwater Analytical Results (August 2020)
Table C – Summary of Groundwater Results (Monitoring Wells)
Table D – Summary of Soil Gas Analytical Results

Table A - Summary of Soil Analytical Results (August 2020)

Sample ID	Sample Date	Depth (feet)	Metals (EPA Methods 6010B and 7471)				Total Petroleum Hydrocabons (EPA Methods 8260B and 8015M)			Volatile Organic Chemicals (EPA Method 8260B)	
			Cr	Pb	Ni	Zn	TPH-g	TPH-d	TPH-mo	tert-Butanol	Other VOCs
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SFRWQCB Residential: Shallow Soil Exposure ESLs[1]			**--**	**80**	**820**	**2.35E+04**	**430**	**260**	**1.20E+04**	**--**	**--**
S-1 @1'	**8/5/2020**	**1**	45	4.5	52	40	<0.25	6.95	48.4	0.374	ND
S-1 @5'	**8/5/2020**	**5**	55	9.1	77	55	<0.11	2.44	<10	<0.055	ND
S-1 @10'	**8/5/2020**	**10**	48	8.3	72	49	<0.14	3.22	<10	<0.068	ND
S-1 @15'	**8/5/2020**	**15**	52	7.0	77	48	<0.12	2.68	<10	<0.059	ND
S-2 @1'	**8/5/2020**	**1**	61	<3.0	40	47	<0.13	3.46	<10	<0.065	ND
S-2 @5'	**8/5/2020**	**5**	67	9.5	86	55	<0.098	4.15	<10	<0.049	ND
S-2 @10'	**8/5/2020**	**10**	56	7.7	79	45	<0.11	4.08	<10	<0.053	ND
S-2 @15'	**8/5/2020**	**15**	48	5.4	57	34	<0.099	<2.0	<10	<0.050	ND
S-3 @1'	**8/5/2020**	**1**	41	4.3	45	35	<0.26	50.3	563	<0.13	ND
S-3 @5'	**8/5/2020**	**5**	64	12	80	59	<0.099	13.0	128	<0.050	ND
S-3 @10'	**8/5/2020**	**10**	51	7.5	75	42	0.238	<2.0	<10	0.189	ND
S-3 @15'	**8/5/2020**	**15**	41	5.9	59	35	<0.089	<2.0	<10	<0.044	ND
S-4 @5'	**8/5/2020**	**5**	55	<3.0	38	36	<0.11	481	4270	<0.057	ND
S-4 @10'	**8/5/2020**	**10**	47	6.1	59	38	0.164	2.34	<10	0.233	ND
S-4 @15'	**8/5/2020**	**15**	49	5.9	65	36	<0.082	<2.0	<10	<0.041	ND

Notes:

NA = not applicable

ND = not detected

<XX = the constiuent was reported below the reporting limit for that consituent

'--' means screening level not reported

[1] San Francisco Bay Regional Water Quality Control Board (SFBRWQCB); Environmental Screening Levels (ESLs); Direct Exposure Residential Soil (Table S-1); 2019 (Rev. 2).

Table B - Summary of Grab Groundwater Analytical Results (August 2020)

Sample ID	Sample Date	Total Petroleum Hydrocabons (EPA Methods 8260B and 8015M)			Volatile Organic Chemicals (EPA Method 8260B)					
		TPH-g	TPH-d	TPH-mo	Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	cis-1,2-Dichloroethene	1,1-Dichloroethane	Isopropyl Benzene	Other VOCs
		µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SFRWQCB: Maximum Contaminant Levels MCL Priority (Interim Final Rev.1 2019)[1]		**760**	**200**	**--**	**5**	**5**	**6**	**5**	**--**	**--**
SFRWQCB: GW Vapor Intrusion HHRLs - Residential (Interim Final 2019, Rev 2) [2]		**--**	**--**	**--**	**0.64**	**1.2**	**49**	**7.6**	**--**	**--**
GW-1	8/4/2020	<84	<0.12	<0.47	**0.97**	**1.0**	**4.1**	<0.84	<0.84	ND
GW-2	8/4/2020	<50	<0.12	<0.47	**0.50**	<0.5	<0.5	**0.57**	**0.69**	ND
GW-4	8/3/2020	<55	<0.11	<0.44	<0.55	<0.55	<0.55	<0.55	<0.55	ND

Notes:

NA = not applicable

ND = not detected

'BOLD indicates the concentration was detected above laboratory reporting limits.

'--' means screening level not reported

<XX = the constiuent was reported below the reporting limit for that consituent; where X is a digit

SLs = Screening Levels

[1] San Francisco Regional Water Quality Control Board Groundwater Maximum Contaminant Level (MCL) Priority Residential (Interim Final 2019, Rev 2).

[2] San Francisco Regional Water Quality Control Board Groundwater Vapor Intrusion Human Health Risk Levels , Residential

Highlighted values exceed MCL priority limits

Highlighted values exceed residential screening criteria.

Table C - Summary of Groundwater Results (Monitoring Wells)

Monitoring Well ID	Sample Date	Total Petroleum Hydrocabons (EPA Methods 8260B and 8015M)			Volatile Organic Chemicals (EPA Method 8260B)							
		TPH-g	TPH-d	TPH-mo	Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	cis-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	1,1-Dichloroethane	1,1,1-Trichloroethane	Other VOCs
		µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SFRWQCB: Maximum Contaminant Levels MCL Priority (Interim Final Rev.1 2019)[1]		**760**	**200**	**--**	**5**	**5**	**6**	**5**	**0.5**	**5**	**200**	**--**
SFRWQCB: GW Vapor Intrusion HHRLs - Residential (Interim Final Rev.1 2019)2		**--**	**--**	**--**	**0.64**	**1.2**	**49**	**7.6**	**0.0086**	**7.6**	**1500**	**--**
MW-1	8/4/2020	**209**	<0.1	<0.4	**61**	**8.2**	**95**	**1.7**	**0.58**	**18**	**5.7**	ND
MW-1	7/13/2022	**136**	<0.037	<0.11	**32**	**3.1**	**19**	<0.5	<0.21	**3.3**	**3.8**	ND
MW-2	8/5/2020	<50	**0.183**	<0.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
MW-2	7/13/2022	<29	<0.037	<0.11	<0.24	<0.15	<0.15	<0.5	<0.21	<0.12	<0.16	ND
MW-3	8/5/2020	<50	**0.106**	<0.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
MW-3	7/13/2022	<29	<0.037	<0.11	<0.24	<0.15	<0.15	<0.5	<0.21	<0.12	<0.16	ND
MW-4	8/5/2020	<50	<0.1	<0.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
MW-4	7/13/2022	<29	<0.037	<0.11	<0.24	<0.15	<0.15	<0.5	<0.21	<0.12	<0.16	ND
MW-5	8/4/2020	<50	<0.1	<0.4	**3.5**	**0.83**	**4**	<0.5	<0.5	**0.81**	<0.5	ND
MW-5	7/13/2022	<29	<0.037	<0.11	**3.2**	**0.51**	**0.59**	<0.5	<0.21	<0.12	<0.16	ND
MW-6	8/4/2020	<50	<0.1	<0.4	**4.1**	**1.2**	**2.1**	<0.5	<0.5	<0.5	<0.5	ND
MW-6	7/13/2022	**51.2**	<0.037	<0.11	**2.4**	**1.1**	**2.3**	<0.5	<0.21	<0.12	<0.16	ND
MW-7	8/4/2020	<50	<0.1	<0.4	**10**	**1.9**	**7.2**	<0.5	<0.5	**0.99**	**1.2**	ND
MW-7	7/13/2022	**66.1**	<0.037	<0.11	**6.3**	**1.3**	**13**	<0.5	<0.21	**1.2**	**0.73**	ND

Notes:

NA = not applicable

ND = not detected

'BOLD indicates the concentration was detected above laboratory reporting limits.

'--' means screening level not reported

<XX = the constiuent was reported below the reporting limit for that consituent; where X is a digit

[1] San Francisco Regional Water Quality Control Board Groundwater Maximum Contaminant Level (MCL) Priority Residential (Interim Final 2019, Rev 2).

[2] San Francisco Regional Water Quality Control Board Groundwater Vapor Intrusion Human Health Risk Levels , Residential (Interim Final 2019, Rev 2).

Highlighted values exceed MCL priority limits

Highlighted values exceed residential screening criteria.

Table D - Summary of Soil Gas Analytical Results

Sample ID	Sample Date	Depth (ft.)	TPH-g (EPA Method TO-3M)	Fixed Gases (ASTM D-1946)					Full List VOCs (EPA Method TO-15)														
			TPH-g	Carbon Dioxide	Hydrogen	Methane	Nitrogen	Oxygen	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane (1,1-DCA)	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	2-Butanone (MEK)	4-Ethyl Toluene	4-Methyl-2-Pentanone (MIBK)	Isopropyl alcohol	Acetone	Benzene	Carbon Disulfide
			µg/m³	%	%	%	%	%	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
SFRWQCB Residential Subslab/Soil Gas ESLs with a 0.03 AF[1]			**8.30E+04**	--	--	--	--	--	**3.50E+04**	**5.80E+00**	**5.80E+01**	--	**7.00E+01**	--	--	--	--	--	--	--	**1.10E+06**	**3.20E+00**	--
SFRWQCB Residential Subslab/Soil Gas ESLs with a 0.001 AF[2]			**6.00E+05**	--	--	--	--	--	**1.00E+06**	**180**	**1.80E+03**	--	**2.10E+03**	--	--	--	--	--	--	--	**3.20E+07**	**97**	
SG-1 @ 6'	8/5/2020	6	**58600**	3.6	0.66	<0.02	78	7.2	**230**	<16	<12	<2.1	<22	<15	<1.8	<18	**39**	**94**	**22**	<7.7	**71**	**15**	**44**
SG-1 @ 10'	8/5/2020	10	**22700**	8.1	0.49	<0.015	78	9.5	**230**	<27	<20	<3.5	<22	<25	<3	<30	**23**	**80**	<21	<13	**130**	<16	<16
SG-2 @ 6'	8/5/2020	6	**3050**	2.6	0.61	<0.014	78	4.2	**510**	<41	<30	<5.2	<32	<37	<4.5	<45	**30**	<37	<31	<19	<180	<24	<23
SG-2 @ 10'	8/5/2020	10	**41700**	13	3.2	<0.017	78	0.97	**1600**	<160	<120	<21	<130	<150	<18	<180	<89	<150	<120	<77	<710	<96	<93
SG-3 @ 6'	8/5/2020	6	**29700**	8.9	1.1	<0.017	78	0.97	**440**	<160	**180**	<21	<130	<150	<18	<180	<89	<150	<120	<77	<710	<96	<93
SG-3 @ 10'	8/5/2020	10	**14600**	3.3	0.79	<0.018	78	3.6	**77**	<27	**68**	<3.5	<22	<25	<3	<30	**41**	<25	<21	<13	<120	<16	<16
SG-4 @ 6'	8/5/2020	6	**950**	<0.32	3.3	0.13	78	17	<4.1	<4.1	**53**	<0.52	<1.9	<3.7	<0.45	<4.6	**5.2**	<3.7	<3.1	<1.9	**23**	<2.4	**5.2**
SG-4 @ 10'	8/5/2020	10	**32500**	11	1.6	7.9	78	0.60	<82	<82	**930**	<10	<65	<7.4	<9	<90	**97**	<7.4	<62	<38	<360	<48	<47
SG-5 @ 6'	8/5/2020	6	**112000**	0.29	0.49	0.094	78	7.3	**7000**	<82	**2400**	<10	<65	180	<9	<90	**250**	<7.4	**330**	<38	380	**180**	<47
SG-5 @ 10'	8/5/2020	10	**258000**	6.7	<0.13	0.19	68	5.4	**8900**	<660	**4100**	<83	<520	<590	<72	<720	<350	<590	**590**	<310	<2900	**570**	<370
SG-6 @ 6'	8/5/2020	6	**3650**	0.15	0.50	<0.012	78	8.7	**340**	<41	<30	<5.2	<32	<37	<4.5	<45	**53**	<37	<31	<19	**190**	<24	<23
SG-6 @ 10'	8/5/2020	10	**4430**	11	0.70	<0.017	78	5.7	**330**	<41	<30	<5.2	<32	<37	<4.5	<45	<22	<37	<31	<19	<180	<24	<23
SG-7 @ 6'	8/5/2020	6	**16000**	11	0.76	<0.015	78	3.2	**2200**	<160	<120	<21	<130	<150	<18	<180	<89	<150	<120	<77	<710	<96	<93
SG-7 @ 10'	8/5/2020	Not sampled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SG-8	8/5/2020	6	**1420**	6.8	0.50	<0.013	76	6.5	**230**	<4.1	<3.0	<0.52	<3.2	**4.1**	<0.45	<4.5	**38**	<3.7	**18**	<1.9	**90**	**3.0**	**26**
SG-9	8/5/2020	6	**2320**	4.2	1.9	<0.041	78	7.2	**20**	<5.5	<4.1	<0.69	<4.3	**9.6**	<0.60	<6.0	**50**	**5.8**	<4.1	<2.6	**95**	**11**	**110**
SG-10	8/4/2020	6	**3240**	1.5	0.96	<0.018	78	13	<5.5	**8.9**	<4.1	<0.69	<4.3	<4.9	<0.60	**30**	**14**	<4.9	<4.1	<2.6	**37**	**8.5**	**54**
SG-11	8/4/2020	6	**3080**	7.2	1.7	<0.019	78	7.2	<27	<27	<20	<3.5	<22	<25	<3	**40**	**160**	<25	<21	<13	**680**	<16	**18**
SG-12	8/4/2020	6	**4300**	4.4	1.3	<0.020	78	0.56	<16	<16	<12	<2.1	<13	<15	<1.8	**35**	**140**	<15	<12	<7.7	**290**	**20**	**64**
SG-13	8/4/2020	6	**3500**	4.9	1.6	<0.021	78	6.1	<27	<27	<20	<3.5	<22	<25	<3	**97**	**630**	<25	**96**	<13	**1200**	**39**	**59**
JULY 2022 SAMPLING																							
SG-1 @ 6'	7/15/2022	6	NA	NA	NA	NA	NA	NA	**260**	<5.8	<5.4	<3.5	<22	<6	<3	<13	<3.9	<5.5	<7.5	<13	<4	<4.4	<3.7
SG-1 @ 10'	7/15/2022	10	NA	NA	NA	NA	NA	NA	**350**	<5.8	<5.4	<3.5	<22	<6	<3	<13	<3.9	<5.5	<7.5	<13	<4	<4.4	<3.7
SG-2 @ 6'	7/15/2022	6	NA	NA	NA	NA	NA	NA	**11000**	<18	**1300**	<10	<65	<36	<9	<40	<12	<16	<22	<38	<12	<13	<11
SG-3 @ 6'	7/15/2022	6'	NA	NA	NA	NA	NA	NA	**1400**	<35	<33	<21	<130	<36	<18	<80	<23	<33	<45	<77	<24	<26	<22
SG-3 @ 10'	7/15/2022	10'	NA	NA	NA	NA	NA	NA	**1100**	<35	<33	<21	<130	<36	<18	<80	<23	<33	<45	<77	<24	<26	<22
SG-4 @ 6'	7/15/2022	6'	NA	NA	NA	NA	NA	NA	**1900**	<35	<33	<21	<130	<36	<18	<80	<23	<33	<45	<77	<24	<26	<22
SG-4 @ 10'	7/15/2022	10'	NA	NA	NA	NA	NA	NA	**2100**	<35	<33	<21	<130	<36	<18	<80	<23	<33	<45	<77	<24	<26	<22
SG-5 @ 6'	7/15/2022	6'	NA	NA	NA	NA	NA	**11**	**11000**	<18	**6900**	<10	<65	<18	<9	<40	<12	<16	<22	<38	<12	**280**	<11
SG-5 @ 10'	7/15/2022	10'	NA	NA	NA	NA	NA	**7.4**	**10000**	<18	**5500**	<10	<65	**400**	**180**	<40	<12	**140**	<22	<38	<12	**310**	<11
SG-6 @ 6'	7/15/2022	6'	NA	NA	NA	NA	NA	NA	**210**	<35	**140**	<21	<130	<36	<18	<80	<23	<33	<45	<77	<24	<26	<22
SG-6 @ 10'	7/15/2022	10'	NA	NA	NA	NA	NA	NA	<48	<35	**190**	<21	<130	<36	<18	<80	<23	<33	<45	<77	<24	<26	<22
SG-7 @ 6'	7/15/2022	6'	NA	NA	NA	NA	NA	NA	<24	<18	**800**	<10	<65	<18	<9	<40	<12	<16	<22	<38	**500**	<13	<11
SG-7 @ 10'	7/15/2022	10'	NA	NA	NA	NA	NA	NA	<24	<18	**1000**	<10	<65	<18	<9	<40	<12	<16	<22	<38	**500**	<13	<11
SG-8	7/15/2022	6'	NA	NA	NA	NA	NA	NA	**12**	<1.8	<1.6	<1.0	<6.5	<1.8	<0.90	<4.0	<1.2	<1.6	<2.2	<3.8	<1.2	<1.3	<1.1
SG-9	7/15/2022	6'	NA	NA	NA	NA	NA	NA	**23**	<0.58	<0.54	<0.35	<2.2	<0.60	<0.30	<1.3	**7.8**	<0.55	<0.75	**18**	**110**	<0.44	**3.9**
SG-10	7/15/2022	6'	NA	NA	NA	NA	NA	**15**	**22**	**6.1**	<1.1	<1.0	<4.3	<1.2	<0.60	<2.7	**14**	<1.1	<1.5	<2.6	**120**	**5**	**23**
SG-11	7/15/2022	6'	NA	NA	NA	NA	NA	NA	**28**	<1.8	<1.6	<0.35	<6.5	<1.8	<0.90	<4.0	<1.2	<1.6	<2.2	<3.8	<1.2	<1.3	<1.1
SG-12	7/15/2022	6'	NA	NA	NA	NA	NA	NA	**6.1**	<0.58	<0.54	<0.35	<2.2	<0.60	<0.30	<1.3	**4.9**	<0.55	<0.75	<1.3	**29**	<0.44	**3**
SG-13	7/15/2022	6'	NA	NA	NA	NA	NA	NA	<0.79	<0.58	**2.3**	<0.35	<2.2	<0.60	<0.30	<1.3	**4.9**	<0.55	<0.75	<1.3	**54**	<0.44	**1.6**
SG-14	7/15/2022	6'	NA	NA	NA	NA	NA	**14**	**29**	<0.58	<0.54	<0.35	<2.2	<0.60	<0.30	<1.3	**13**	<0.55	**3.2**	<1.3	**42**	<0.44	**6.4**
SG-15	7/15/2022	6'	NA	NA	NA	NA	NA	**11**	**9.4**	<0.58	<0.54	<0.35	<2.2	<0.60	<0.30	<1.3	**3.1**	<0.55	<0.75	<1.3	**50**	**1.8**	**15**
SG-16	7/15/2022	6'	NA	NA	NA	NA	NA	**0.48**	<24	<18	**120**	<10	**130**	<18	<9	<40	<12	<16	<22	<38	**3700**	**1800**	<11
SG-17	7/15/2022	6'	NA	NA	NA	NA	NA	**0.28**	<24	<18	<16	<10	<65	<18	<9	<40	<12	<16	<22	<38	**4200**	**890**	<11
SG-18	7/15/2022	6'	NA	NA	NA	NA	NA	**0.85**	**270**	<18	<16	<10	<65	<18	<9	<40	<12	<16	<22	<38	<12	<13	<11
SG-19	7/15/2022	6'	NA	NA	NA	NA	NA	**0.14**	<24	<18	<16	<10	<65	<18	<9	<40	**1700**	<16	<22	<38	<12	<13	<11
SG-20	7/15/2022	6'	NA	NA	NA	NA	NA	**4.7**	**63**	<5.8	<5.4	<3.5	<22	<6	<3	<40	<3.9	<5.5	<7.5	<13	<4	<4.4	<3.7
SG-21	7/15/2022	6'	NA	NA	NA	NA	NA	**1**	<24	<18	<16	**74,000**	<65	<18	<9	<40	<12	<16	<22	<38	<12	<13	<11

Notes:
Results are shown in µg/m³ (micrograms per cubic meter) or percent (fixed gases only).
NA = not analyzed
ND = not detected
'--' means screening level not reported
BOLD indicates the concentration was detected above laboratory reporting limits.
Highlighted values exceed residential screening criteria with 0.3 attenuation factor.
Highlighted values exceed residential screening criteria with 0.001 attenuation factor.

<XX = the constiuent was reported below the reporting limit for that consituent

1 San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels (Table SG-1); Residential; January 2019 (Rev. 1) with a 0.03 attenuation factor.

1 San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels (Table SG-1); Residential; January 2019 (Rev. 1) with a 0.001 attenuation factor.

Table D - Summary of Soil Gas Analytical Results

Sample ID	Sample Date	Depth (ft.)	TPH-g (EPA Method TO-3M)	'Full List VOCs (EPA Method TO-15)																	
			TPH-g	Carbon Tetrachloride	Chloroform	Chloromethane	Toluene	Ethyl Acetate	Ethylbenzene	Hexachlorobutadiene	Hexane	m,p-Xylene	o-Xylene	∑Xylenes	Naphthalene	tert-Butanol	Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Other VOCs
			µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
SFRWQCB Residential Subslab/Soil Gas ESLs with a 0.03 AF[1]			**8.30E+04**	**1.60E+01**	**4.10E+00**	**3.10E+03**	**1.00E+04**	**--**	**3.70E+01**	**4.30E+00**	**--**	**--**	**--**	**3.50E+03**	**2.80E+00**	**--**	**1.50E+01**	**1.60E+01**	**2.80E+02**	**2.80E+03**	**2.40E+03**	**3.20E-01**	**--**
SFRWQCB Residential Subslab/Soil Gas ESLs with a 0.001 AF[2]			**6.00E+05**	**470**	**120**	**9.40E+04**	**3.10E+05**	**--**	**1.10E+03**	**130**				**1.00E+05**	**83**		**4.60E+02**	**4.80E+02**	**8.30E+03**	**8.30E+04**	**7.30E+04**	**9.5**	**--**
SG-1 @ 6'	8/5/2020	6	**58600**	**38**	**66**	<12	**39**	<11	<38	<110	13	14	37	51	<16	<9.1	**530**	<16	<12	<12	<12	<7.7	ND
SG-1 @ 10'	8/5/2020	10	**22700**	**39**	<24	<20	<19	<18	<38	<110	<18	<22	<22	<22	<26	<15	**920**	<27	<20	<20	<20	<13	ND
SG-2 @ 6'	8/5/2020	6	**3050**	<47	<37	<31	**38**	<27	<38	<110	33	<33	<33	<33	<39	<23	**1800**	**57**	<30	<30	<30	<19	ND
SG-2 @ 10'	8/5/2020	10	**41700**	**270**	<150	<120	<110	<110	<38	<110	<110	<130	<130	<130	<160	<91	**9100**	**230**	<120	<120	<120	<77	ND
SG-3 @ 6'	8/5/2020	6	**29700**	<190	<150	<120	<110	<110	<38	<110	<110	<130	<130	<130	<160	<91	**11000**	<160	<120	<120	<120	<77	ND
SG-3 @ 10'	8/5/2020	10	**14600**	<31	<24	<20	<19	<18	<38	<110	28	<22	<22	<22	<26	<15	**1300**	**35**	**89**	<20	<20	<13	ND
SG-4 @ 6'	8/5/2020	6	**950**	<4.7	**6.5**	<3.1	<2.8	<2.7	<38	<110	7.1	<3.3	<3.3	<3.3	<3.9	<2.3	**150**	**88**	**220**	**31**	**9.6**	<1.9	ND
SG-4 @ 10'	8/5/2020	10	**32500**	<94	<73	<61	<57	<54	<38	<110	130	<65	<65	<65	<79	<45	**3100**	**3800**	**7000**	**810**	<60	<38	ND
SG-5 @ 6'	8/5/2020	6	**112000**	**1500**	**90**	<61	**90**	<54	<38	<110	330	190	200	**390**	<79	<45	**9800**	**2200**	**12000**	<59	**570**	**1900**	ND
SG-5 @ 10'	8/5/2020	10	**258000**	**1700**	<590	<490	<450	<430	<38	<110	<420	<520	<520	<520	<630	<360	**36000**	**6600**	**33000**	<480	<480	**2000**	ND
SG-6 @ 6'	8/5/2020	6	**3650**	**61**	<37	<31	<28	<27	<38	<110	<26	<33	<33	<33	<39	<23	**2000**	<40	<30	<30	<30	<19	ND
SG-6 @ 10'	8/5/2020	10	**4430**	**61**	<37	<31	<28	<27	<38	<110	<26	<33	<33	<33	<39	<23	**1500**	<40	<30	<30	<30	<19	ND
SG-7 @ 6'	8/5/2020	6	**16000**	**410**	<150	<122	<110	<110	<38	<110	<110	<130	<130	<130	<160	<91	**15000**	<160	<120	<120	<120	<77	ND
SG-7 @ 10'	8/5/2020	Not sampled	-	-	-	<120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SG-8	8/5/2020	6	**1420**	**42**	**7.3**	<3.1	**8.1**	<2.7	<38	<110	7.0	3.8	<3.3	**3.8**	**5.4**	5.9	**150**	<4	3.5	<3	<3.0	<1.9	ND
SG-9	8/5/2020	6	**2320**	<6.3	**29**	<4.1	**35**	<3.6	<38	<110	18	12	5.2	**17.2**	**14**	9.0	**39**	<5.4	<4.0	<4	<4.0	<2.6	ND
SG-10	8/4/2020	6	**3240**	<6.3	**43**	<4.1	**6.3**	**17**	<38	<110	42	14	4.3	**18.3**	<5.2	6.7	**7.1**	<5.4	<4.0	<4	<4.0	<2.6	ND
SG-11	8/4/2020	6	**3080**	<31	<24	<20	**23**	<18	<38	<110	<18	<22	<22	<22	<26	<15	**78**	<27	<20	<20	<20	<13	ND
SG-12	8/4/2020	6	**4300**	<19	**15**	<12	**25**	<11	<38	<110	60	17	<13	**17**	<16	9.6	**27**	<16	15	<12	<12	<7.7	ND
SG-13	8/4/2020	6	**3500**	<31	**34**	<20	**24**	<18	<38	<110	30	<22	<22	<22	<26	57	**890**	<27	<20	<20	<20	<13	ND
SG-1 @ 6'	7/15/2022	6	NA	<11	<9.7	<20	<7.5	<14	<6.3	<19	<4.6	<9.8	<3.0	<12.8	<4.4	<6.2	**1400**	<8.1	<8.3	<4.8	<8.3	<2.3	ND
SG-1 @ 10'	7/15/2022	10	NA	<11	<9.7	<20	<7.5	<14	<6.3	<19	<4.6	<9.8	<3.0	<12.8	<4.4	<6.2	**1800**	<8.1	<8.3	<4.8	<8.3	<2.3	ND
SG-2 @ 6'	7/15/2022	6	NA	<33	<29	<61	<23	<14	<19	<56	<14	<29	<9.1	<38.1	<13	<19	**63000**	**1900**	**2900**	<29	<25	<6.8	ND
SG-3 @ 6'	7/15/2022	6'	NA	<66	<58	<120	<45	<14	<38	<110	<28	<59	<18	<77	<27	<37	**13000**	**300**	<50	<29	<50	<14	ND
SG-3 @ 10'	7/15/2022	10'	NA	<66	<58	<120	<45	<14	<38	<110	<28	<59	<18	<77	<27	<37	**9800**	**280**	<50	<29	<50	<14	ND
SG-4 @ 6'	7/15/2022	6'	NA	<66	<58	<120	<45	<14	<38	<110	<28	<59	<18	<77	<27	<37	**17000**	<48	<50	<29	<50	<14	ND
SG-4 @ 10'	7/15/2022	10'	NA	<66	<58	<120	<45	<14	<38	<110	<28	<59	<18	<77	<27	<37	**16000**	<48	<50	<29	<50	<14	ND
SG-5 @ 6'	7/15/2022	6'	NA	<33	<29	<61	<23	<14	<19	<56	**110**	<29	<9.1	<38.1	<13	<19	**47000**	**10000**	**31000**	**74**	**350**	**1900**	ND
SG-5 @ 10'	7/15/2022	10'	NA	<33	<29	<61	**140**	<14	**160**	<56	**150**	700	670	**1370**	<13	<19	**45000**	**9200**	**33000**	**86**	**310**	**2100**	ND
SG-6 @ 6'	7/15/2022	6'	NA	<66	<58	**360**	<45	<14	<38	<110	<28	<59	<18	<77	<27	<37	**11000**	<48	<50	<29	<50	<14	ND
SG-6 @ 10'	7/15/2022	10'	NA	<66	<58	**440**	<45	<14	<38	<110	<28	<59	<18	<77	<27	<37	**11000**	**270**	<50	<29	<50	<14	ND
SG-7 @ 6'	7/15/2022	6'	NA	<33	<29	<61	<23	<14	<19	<56	**130**	<29	<9.1	<38.1	<13	<19	**4400**	**3800**	**7300**	**990**	**120**	<6.8	ND
SG-7 @ 10'	7/15/2022	10'	NA	<33	<29	<61	<23	<14	<19	<56	**110**	<29	<9.1	<38.1	<13	<19	**840**	**4900**	**8200**	**1300**	**220**	<6.8	ND
SG-8	7/15/2022	6'	NA	<3.3	<2.9	<6.1	<2.3	<14	<1.9	<5.6	<1.4	<2.9	<0.91	<3.81	<1.3	<1.9	**16**	<2.4	<2.5	<1.4	<2.5	<0.68	ND
SG-9	7/15/2022	6'	NA	<1.1	**9.1**	<2.0	<0.75	<14	<0.63	<1.9	<0.46	<0.98	<0.3	<1.28	<0.44	<0.62	**46**	<0.81	<0.83	<0.48	<0.83	<0.23	ND
SG-10	7/15/2022	6'	NA	**7.6**	<1.9	<4.1	**12**	<14	<1.3	<3.7	<0.93	<2.0	<0.61	<2.61	<0.89	**16**	**410**	**140**	<1.7	<0.95	<1.7	<0.45	ND
SG-11	7/15/2022	6'	NA	<3.3	<2.9	<6.1	<2.3	<14	<1.9	<5.6	<1.4	<2.9	<0.91	<3.81	<1.3	<1.9	**950**	**13**	<2.5	<1.4	<2.5	<0.68	ND
SG-12	7/15/2022	6'	NA	<1.1	**6.8**	<2.0	<0.75	<14	<0.63	**6.8**	<0.46	<0.98	<0.3	<1.28	<0.44	<0.62	**67**	<0.81	<0.83	<0.48	<0.83	<0.23	ND
SG-13	7/15/2022	6'	NA	<1.1	<0.97	<2.0	<0.75	<14	<0.63	<1.9	<0.46	<0.98	<0.3	<1.28	<0.44	<0.62	**55**	<0.81	<0.83	<0.48	<0.83	<0.23	ND
SG-14	7/15/2022	6'	NA	<1.1	**4.6**	<2.0	**6.1**	<14	<0.63	<1.9	<0.46	<0.98	<0.3	<1.28	<0.44	<0.62	**15**	<0.81	<0.83	<0.48	<0.83	<0.23	ND
SG-15	7/15/2022	6'	NA	<1.1	**9.3**	<2.0	**12**	<14	<0.63	<1.9	**2.2**	7.1	3.9	**11**	<0.44	<0.62	<1.5	<0.81	<0.83	<0.48	<0.83	<0.23	ND
SG-16	7/15/2022	6'	NA	<33	**1000**	<61	<23	<14	<19	<56	**11000**	100	79	**179**	<13	<19	<44	<24	**350**	**150**	<25	<6.8	ND
SG-17	7/15/2022	6'	NA	<33	**720**	<61	**58**	<14	<19	<56	**330**	<29	<9.1	<38.1	<13	<19	<44	<24	<25	<14	<25	<6.8	ND
SG-18	7/15/2022	6'	NA	<33	<29	<61	<23	<14	<19	<56	<14	<29	<9.1	<38.1	<13	<19	**15000**	<24	<25	<14	<25	<6.8	ND
SG-19	7/15/2022	6'	NA	<33	**250**	<61	<23	<14	<19	<56	**630**	<29	<9.1	<38.1	<13	<19	**5200**	**2900**	**4700**	**580**	<25	<6.8	ND
SG-20	7/15/2022	6'	NA	<11	<9.7	<20	<7.5	<14	<6.3	<19	<4.6	<9.8	<3.0	<12.8	<4.4	<6.2	**2700**	**460**	<8.3	<4.8	<8.3	<2.3	ND
SG-21	7/15/2022	6'	NA	<33	**600**	<61	<23	<14	<19	<56	**3900**	<29	<9.1	<38.1	<13	<19	<44	<24	**860**	<14	<25	<6.8	ND

Notes:

Results are shown in µg/m³ (micrograms per cubic meter) or percent (fixed

NA = not analyzed

ND = not detected

'--' means screening level not reported

BOLD indicates the concentration was detected above laboratory reporting

Highlighted values exceed residential screening criteria with 0.3 attenuation

Highlighted values exceed residential screening criteria with 0.001 attenuat

<XX = the constiuent was reported below the reporting limit for that consitu

1 San Francisco Bay Regional Water Quality Control Board (SFBRWQCB Intrusion: Human Health Risk Levels (Table SG-1); Residential; January 2(attenuation factor.

1 San Francisco Bay Regional Water Quality Control Board (SFBRWQCB Intrusion: Human Health Risk Levels (Table SG-1); Residential; January 2(attenuation factor.

APPENDIX A

Torrent Laboratory, Inc., Laboratory Reports

Engeo (San Ramon)
2010 Crow Canyon Place,#250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199

RE: Cedar Boulevard

Work Order No.: 2207108

Dear Monica Kunzel:

Torrent Laboratory, Inc. received 6 sample(s) on July 15, 2022 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.



Kathie Evans
Project Manager

July 22, 2022
Date

Date: 7/22/2022

Client: Engeo (San Ramon)

Project: Cedar Boulevard

Work Order: 2207108

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Laboratory, Inc.

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date Received: 07/15/22
Date Reported: 07/22/22

MW-1 2207108-001

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH Gasoline	8260TPH	1	29	50	136	ug/L
1,1-Dichloroethane	SW8260B	1	0.12	0.50	3.3	ug/L
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	19	ug/L
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	3.8	ug/L
Trichloroethylene	SW8260B	1	0.15	0.50	3.1	ug/L
Tetrachloroethylene	SW8260B	1	0.24	0.50	32	ug/L

MW-2 2207108-002

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

MW-4 2207108-003

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

MW-5 2207108-004

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	0.59	ug/L
Trichloroethylene	SW8260B	1	0.15	0.50	0.51	ug/L
Tetrachloroethylene	SW8260B	1	0.24	0.50	3.2	ug/L

MW-6 2207108-005

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH Gasoline	8260TPH	1	29	50	51.2	ug/L
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	2.3	ug/L
Trichloroethylene	SW8260B	1	0.15	0.50	1.1	ug/L
Tetrachloroethylene	SW8260B	1	0.24	0.50	2.4	ug/L

MW-7 2207108-006

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
TPH Gasoline	8260TPH	1	29	50	66.1	ug/L
1,1-Dichloroethane	SW8260B	1	0.12	0.50	1.2	ug/L
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	13	ug/L
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	0.73	ug/L
Trichloroethylene	SW8260B	1	0.15	0.50	1.3	ug/L
Tetrachloroethylene	SW8260B	1	0.24	0.50	6.3	ug/L

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-1	**Lab Sample ID:**	2207108-001A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 10:10		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	07/15/22	19:58	JZ	467555
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	07/15/22	19:58	JZ	467555
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,1-Dichloroethane	SW8260B	1	0.12	0.50	**3.3**		ug/L	07/15/22	19:58	JZ	467555
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	**19**		ug/L	07/15/22	19:58	JZ	467555
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	**3.8**		ug/L	07/15/22	19:58	JZ	467555
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
TAME	SW8260B	1	0.072	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Trichloroethylene	SW8260B	1	0.15	0.50	**3.1**		ug/L	07/15/22	19:58	JZ	467555
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Tetrachloroethylene	SW8260B	1	0.24	0.50	**32**		ug/L	07/15/22	19:58	JZ	467555
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	07/15/22	19:58	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-1	**Lab Sample ID:**	2207108-001A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 10:10		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	07/15/22	19:58	JZ	467555
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	07/15/22	19:58	JZ	467555
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	07/15/22	19:58	JZ	467555
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	07/15/22	19:58	JZ	467555
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	19:58	JZ	467555
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	19:58	JZ	467555
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**120**		%	07/15/22	19:58	JZ	467555
(S) Toluene-d8	SW8260B		75.1 - 127		**95.5**		%	07/15/22	19:58	JZ	467555
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**105**		%	07/15/22	19:58	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-1	**Lab Sample ID:**	2207108-001A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 10:10		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	7/15/22	11:25:00AM
Prep Batch ID:	1143255	**Prep Analyst:**	JZHAO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH Gasoline	8260TPH	1	29	50	**136**	x	ug/L	07/15/22	19:58	JZ	467555
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**91.1**		%	07/15/22	19:58	JZ	467555

NOTE: Reported TPH value includes amount due to discrete peak (cis-1,2DCE, TCE and PCE).

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-1	**Lab Sample ID:**	2207108-001B
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 10:10		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	7/19/22 9:23:00AM
Prep Batch ID:	1143299	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	07/19/22	18:40	SN	467715
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	07/19/22	18:40	SN	467715
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**82.6**		%	07/19/22	18:40	SN	467715

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-2	**Lab Sample ID:**	2207108-002A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 12:20		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	07/15/22	20:28	JZ	467555
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	07/15/22	20:28	JZ	467555
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
TAME	SW8260B	1	0.072	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	07/15/22	20:28	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-2	**Lab Sample ID:**	2207108-002A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 12:20		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	07/15/22	20:28	JZ	467555
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	07/15/22	20:28	JZ	467555
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	07/15/22	20:28	JZ	467555
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	07/15/22	20:28	JZ	467555
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	20:28	JZ	467555
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	20:28	JZ	467555
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**120**		%	07/15/22	20:28	JZ	467555
(S) Toluene-d8	SW8260B		75.1 - 127		**98.3**		%	07/15/22	20:28	JZ	467555
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**107**		%	07/15/22	20:28	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-2	**Lab Sample ID:**	2207108-002A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 12:20		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	7/15/22	11:25:00AM
Prep Batch ID:	1143255	**Prep Analyst:**	JZHAO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH Gasoline	8260TPH	1	29	50	ND		ug/L	07/15/22	20:28	JZ	467555
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**82.5**		%	07/15/22	20:28	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-2	**Lab Sample ID:**	2207108-002B
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 12:20		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	7/19/22	9:23:00AM	
Prep Batch ID:	1143299	**Prep Analyst:**	AKIZ		

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	07/19/22	19:04	SN	467715
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	07/19/22	19:04	SN	467715
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**76.6**		%	07/19/22	19:04	SN	467715

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-4	**Lab Sample ID:**	2207108-003A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 13:45		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	07/15/22	20:58	JZ	467555
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	07/15/22	20:58	JZ	467555
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
TAME	SW8260B	1	0.072	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	07/15/22	20:58	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-4	**Lab Sample ID:**	2207108-003A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 13:45		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	07/15/22	20:58	JZ	467555
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	07/15/22	20:58	JZ	467555
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	07/15/22	20:58	JZ	467555
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	07/15/22	20:58	JZ	467555
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	20:58	JZ	467555
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	20:58	JZ	467555
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**119**		%	07/15/22	20:58	JZ	467555
(S) Toluene-d8	SW8260B		75.1 - 127		**97.7**		%	07/15/22	20:58	JZ	467555
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**105**		%	07/15/22	20:58	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-4	**Lab Sample ID:**	2207108-003A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 13:45		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143255	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH Gasoline	8260TPH	1	29	50	ND		ug/L	07/15/22	20:58	JZ	467555
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**70.9**		%	07/15/22	20:58	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-4	**Lab Sample ID:**	2207108-003B
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 13:45		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	7/19/22 9:23:00AM
Prep Batch ID:	1143299	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	07/19/22	19:27	SN	467715
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	07/19/22	19:27	SN	467715
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**79.7**		%	07/19/22	19:27	SN	467715

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-5	**Lab Sample ID:**	2207108-004A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:00		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	07/15/22	21:28	JZ	467555
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	07/15/22	21:28	JZ	467555
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	**0.59**		ug/L	07/15/22	21:28	JZ	467555
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
TAME	SW8260B	1	0.072	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Trichloroethylene	SW8260B	1	0.15	0.50	**0.51**		ug/L	07/15/22	21:28	JZ	467555
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Tetrachloroethylene	SW8260B	1	0.24	0.50	**3.2**		ug/L	07/15/22	21:28	JZ	467555
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	07/15/22	21:28	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-5	**Lab Sample ID:**	2207108-004A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:00		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	07/15/22	21:28	JZ	467555
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	07/15/22	21:28	JZ	467555
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	07/15/22	21:28	JZ	467555
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	07/15/22	21:28	JZ	467555
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	21:28	JZ	467555
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	21:28	JZ	467555
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**120**		%	07/15/22	21:28	JZ	467555
(S) Toluene-d8	SW8260B		75.1 - 127		**97.6**		%	07/15/22	21:28	JZ	467555
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**107**		%	07/15/22	21:28	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-5	**Lab Sample ID:**	2207108-004A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:00		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143255	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH Gasoline	8260TPH	1	29	50	ND		ug/L	07/15/22	21:28	JZ	467555
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**75.4**		%	07/15/22	21:28	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-5	**Lab Sample ID:**	2207108-004B
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:00		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	7/19/22 9:23:00AM
Prep Batch ID:	1143299	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	07/19/22	19:52	SN	467715
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	07/19/22	19:52	SN	467715
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**68.8**		%	07/19/22	19:52	SN	467715

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-6	**Lab Sample ID:**	2207108-005A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:30		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	07/15/22	21:58	JZ	467555
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	07/15/22	21:58	JZ	467555
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	**2.3**		ug/L	07/15/22	21:58	JZ	467555
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
TAME	SW8260B	1	0.072	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Trichloroethylene	SW8260B	1	0.15	0.50	**1.1**		ug/L	07/15/22	21:58	JZ	467555
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Tetrachloroethylene	SW8260B	1	0.24	0.50	**2.4**		ug/L	07/15/22	21:58	JZ	467555
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	07/15/22	21:58	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-6	**Lab Sample ID:**	2207108-005A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:30		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	07/15/22	21:58	JZ	467555
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	07/15/22	21:58	JZ	467555
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	07/15/22	21:58	JZ	467555
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	07/15/22	21:58	JZ	467555
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	21:58	JZ	467555
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	21:58	JZ	467555
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**120**		%	07/15/22	21:58	JZ	467555
(S) Toluene-d8	SW8260B		75.1 - 127		**99.0**		%	07/15/22	21:58	JZ	467555
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**106**		%	07/15/22	21:58	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-6	**Lab Sample ID:**	2207108-005A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:30		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143255	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH Gasoline	8260TPH	1	29	50	**51.2**	x	ug/L	07/15/22	21:58	JZ	467555
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**78.0**		%	07/15/22	21:58	JZ	467555

NOTE: Reported TPH value includes amount due to discrete peak (cis-1,2DCE, TCE and PCE).

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-6	**Lab Sample ID:**	2207108-005B
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:30		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	7/19/22 9:23:00AM
Prep Batch ID:	1143299	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	07/19/22	20:16	SN	467715
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	07/19/22	20:16	SN	467715
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**68.8**		%	07/19/22	20:16	SN	467715

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-7	**Lab Sample ID:**	2207108-006A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 11:15		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	07/15/22	22:28	JZ	467555
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	07/15/22	22:28	JZ	467555
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,1-Dichloroethane	SW8260B	1	0.12	0.50	**1.2**		ug/L	07/15/22	22:28	JZ	467555
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	**13**		ug/L	07/15/22	22:28	JZ	467555
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	**0.73**		ug/L	07/15/22	22:28	JZ	467555
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
TAME	SW8260B	1	0.072	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Trichloroethylene	SW8260B	1	0.15	0.50	**1.3**		ug/L	07/15/22	22:28	JZ	467555
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Tetrachloroethylene	SW8260B	1	0.24	0.50	**6.3**		ug/L	07/15/22	22:28	JZ	467555
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	07/15/22	22:28	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-7	**Lab Sample ID:**	2207108-006A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 11:15		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	07/15/22	22:28	JZ	467555
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	07/15/22	22:28	JZ	467555
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	07/15/22	22:28	JZ	467555
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	07/15/22	22:28	JZ	467555
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	22:28	JZ	467555
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	22:28	JZ	467555
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**120**		%	07/15/22	22:28	JZ	467555
(S) Toluene-d8	SW8260B		75.1 - 127		**97.8**		%	07/15/22	22:28	JZ	467555
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**101**		%	07/15/22	22:28	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-7	**Lab Sample ID:**	2207108-006A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 11:15		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	7/15/22	11:25:00AM
Prep Batch ID:	1143255	**Prep Analyst:**	JZHAO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH Gasoline	8260TPH	1	29	50	**66.1**	x	ug/L	07/15/22	22:28	JZ	467555
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**74.1**		%	07/15/22	22:28	JZ	467555

NOTE: Reported TPH value includes amount due to discrete peak (cis-1,2DCE, TCE and PCE).

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-7	**Lab Sample ID:**	2207108-006B
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 11:15		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	7/19/22 9:23:00AM
Prep Batch ID:	1143299	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	07/19/22	20:39	SN	467715
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	07/19/22	20:39	SN	467715
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**63.6**		%	07/19/22	20:39	SN	467715

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2207108	**Prep Method:**	5030VOC	**Prep Date:**	07/15/22	**Prep Batch:**	1143254
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	7/15/2022	**Analytical Batch:**	467555
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.26	0.50	ND	
Chloromethane	0.17	0.50	ND	
Vinyl Chloride	0.21	0.50	ND	
Bromomethane	0.21	0.50	ND	
Chloroethane	0.11	0.50	ND	
Trichlorofluoromethane	0.19	0.50	ND	
1,1-Dichloroethene	0.14	0.50	ND	
Freon 113	0.34	0.50	ND	
Methylene Chloride	0.13	1.0	ND	
trans-1,2-Dichloroethene	0.16	0.50	ND	
MTBE	0.077	0.50	ND	
tert-Butanol	2.9	5.0	ND	
DIPE	0.12	0.50	ND	
1,1-Dichloroethane	0.12	0.50	ND	
ETBE	0.064	0.50	ND	
cis-1,2-Dichloroethene	0.15	0.50	ND	
2,2-Dichloropropane	0.094	0.50	ND	
Bromochloromethane	0.15	0.50	ND	
Chloroform	0.12	0.50	ND	
Carbon Tetrachloride	0.16	0.50	ND	
1,1,1-Trichloroethane	0.16	0.50	ND	
1,1-Dichloropropene	0.19	0.50	ND	
Benzene	0.065	0.50	ND	
TAME	0.072	0.50	ND	
1,2-Dichloroethane	0.11	0.50	ND	
Trichloroethylene	0.15	0.50	ND	
Dibromomethane	0.11	0.50	ND	
1,2-Dichloropropane	0.089	0.50	ND	
Bromodichloromethane	0.076	0.50	ND	
cis-1,3-Dichloropropene	0.078	0.50	ND	
Toluene	0.14	0.50	ND	
Tetrachloroethylene	0.24	0.50	ND	
trans-1,3-Dichloropropene	0.22	0.50	ND	
1,1,2-Trichloroethane	0.076	0.50	ND	
Dibromochloromethane	0.18	0.50	ND	
1,3-Dichloropropane	0.22	0.50	ND	
1,2-Dibromoethane	0.079	0.50	ND	
Chlorobenzene	0.16	0.50	ND	
Ethylbenzene	0.20	0.50	ND	
1,1,1,2-Tetrachloroethane	0.087	0.50	ND	
m,p-Xylene	0.39	1.0	ND	
o-Xylene	0.15	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.076	0.50	ND	
Isopropyl Benzene	0.22	0.50	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2207108	**Prep Method:**	5030VOC	**Prep Date:**	07/15/22	**Prep Batch:**	1143254
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	7/15/2022	**Analytical Batch:**	467555
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
n-Propylbenzene	0.30	0.50	ND	
Bromobenzene	0.15	0.50	ND	
1,1,2,2-Tetrachloroethane	0.079	0.50	ND	
2-Chlorotoluene	0.25	0.50	ND	
1,3,5-Trimethylbenzene	0.24	0.50	ND	
1,2,3-Trichloropropane	0.15	0.50	ND	
4-Chlorotoluene	0.22	0.50	ND	
tert-Butylbenzene	0.26	0.50	ND	
1,2,4-Trimethylbenzene	0.23	0.50	ND	
sec-Butyl Benzene	0.30	0.50	ND	
p-Isopropyltoluene	0.27	0.50	ND	
1,3-Dichlorobenzene	0.17	0.50	ND	
1,4-Dichlorobenzene	0.18	0.50	ND	
n-Butylbenzene	0.27	0.50	ND	
1,2-Dichlorobenzene	0.16	0.50	ND	
1,2-Dibromo-3-Chloropropane	0.76	2.0	ND	
Hexachlorobutadiene	0.62	2.0	ND	
1,2,4-Trichlorobenzene	0.93	2.0	ND	
Naphthalene	1.2	2.0	ND	
1,2,3-Trichlorobenzene	1.2	2.0	ND	
(S) Dibromofluoromethane			113	
(S) Toluene-d8			105	
(S) 4-Bromofluorobenzene			114	

Work Order:	2207108	**Prep Method:**	5030GRO	**Prep Date:**	07/15/22	**Prep Batch:**	1143255
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	7/15/2022	**Analytical Batch:**	467555
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH Gasoline	29	50	38	
(S) 4-Bromofluorobenzene			71.4	

Work Order:	2207108	**Prep Method:**	3510_TPH SG	**Prep Date:**	07/19/22	**Prep Batch:**	1143299
Matrix:	Water	**Analytical Method:**	SW8015B	**Analyzed Date:**	7/19/2022	**Analytical Batch:**	467715
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel (SG)	0.037	0.10	0.0468	
TPH as Motor Oil (SG)	0.11	0.40	0.133	
Pentacosane (S)			104	

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2207108	**Prep Method:**	5030VOC	**Prep Date:**	07/15/22	**Prep Batch:**	1143254
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	7/15/2022	**Analytical Batch:**	467555
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.14	0.50	ND	17.9	106	94.7	11.7	61.4 - 129	30	
Benzene	0.16	0.50	ND	17.9	102	91.7	11.0	66.9 - 140	30	
Trichloroethylene	0.15	0.50	ND	17.9	102	97.2	5.04	69.3 - 144	30	
Toluene	0.14	0.50	ND	17.9	110	104	5.24	76.6 - 123	30	
Chlorobenzene	0.16	0.50	ND	17.9	102	93.7	8.60	73.9 - 137	30	
(S) Dibromofluoromethane				17.9	96.2	89.4		61.2 - 131		
(S) Toluene-d8				17.9	104	96.9		75.1 - 127		
(S) 4-Bromofluorobenzene				17.9	101	88.7		64.1 - 120		

Work Order:	2207108	**Prep Method:**	5030GRO	**Prep Date:**	07/15/22	**Prep Batch:**	1143255
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	7/15/2022	**Analytical Batch:**	467555
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH Gasoline	29	50	38	238	106	110	3.51	52.4 - 127	30	
(S) 4-Bromofluorobenzene				11.9	87.4	85.5		41.5 - 125		

Work Order:	2207108	**Prep Method:**	3510_TPH SG	**Prep Date:**	07/19/22	**Prep Batch:**	1143299
Matrix:	Water	**Analytical Method:**	SW8015B	**Analyzed Date:**	7/19/2022	**Analytical Batch:**	467715
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.037	0.10	0.0468	1.0	69.1	73.5	6.17	42 - 115	30	
Pentacosane (S)			0.133	200	94.4	89.5		40 - 129		

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg/m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Project Name: Cedar Boulevard

Work Order No.: 2207108

Date and Time Received: 7/15/2022 10:00:00AM

Received By: Lorna Imbat

Physically Logged By: Lorna Imbat

Checklist Completed By: Lorna Imbat

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	Yes
Custody seals intact on sample bottles?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes		
Container/Temp Blank temperature in compliance?	No	Temperature:	10.0 °C
Water-VOA vials have zero headspace?	Yes		
Water-pH acceptable upon receipt?	N/A		

pH Checked by: n/a

pH Adjusted by: n/a

Comments:

Torrent LABORATORY, INC.

Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Cedar Boulevard
Project # : 15799.004.000
Report Due Date: 7/22/2022

QC Level: II
TAT Requested: 5+ day:5
Date Received: 7/15/2022
Time Received: 10:00 am

Comments:

Work Order # : ***2207108***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
2207108-001A	MW-1	07/13/22 10:10	Water	08/27/22			VOC_W_8260B VOC_W_GRO	
2207108-001B	MW-1	07/13/22 10:10	Water	08/27/22			TPHDOSG_W_8015B	
2207108-002A	MW-2	07/13/22 12:20	Water	08/27/22			VOC_W_8260B VOC_W_GRO	
2207108-002B	MW-2	07/13/22 12:20	Water	08/27/22			TPHDOSG_W_8015B	
2207108-003A	MW-4	07/13/22 13:45	Water	08/27/22			VOC_W_8260B VOC_W_GRO	
2207108-003B	MW-4	07/13/22 13:45	Water	08/27/22			TPHDOSG_W_8015B	
2207108-004A	MW-5	07/13/22 16:00	Water	08/27/22			VOC_W_8260B VOC_W_GRO	
2207108-004B	MW-5	07/13/22 16:00	Water	08/27/22			TPHDOSG_W_8015B	
2207108-005A	MW-6	07/13/22 16:30	Water	08/27/22			VOC_W_8260B VOC_W_GRO	
2207108-005B	MW-6	07/13/22 16:30	Water	08/27/22			TPHDOSG_W_8015B	
2207108-006A	MW-7	07/13/22 11:15	Water	08/27/22			VOC_W_8260B VOC_W_GRO	
2207108-006B	MW-7	07/13/22 11:15	Water	08/27/22			TPHDOSG_W_8015B	

Torrent LABORATORY, INC.

2207108

CHAIN OF CUSTODY RECORD

PROJECT NUMBER: 15799.004.000
PROJECT NAME: CEDAR BOULEVARD
SAMPLED BY: (SIGNATURE/PRINT): MRK
PROJECT MANAGER: (SIGNATURE/PRINT): MONICA KUNZEL
ROUTING: E-MAIL MKUNZEL@ENGEO.COM HARD COPY

SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	TPH GASOLINE EPA 8260	TPH D&O MC EPA METHOD 8015 SILICA GEL CLEAN	REMARKS REQUIRED DETECTION LIMITS
MW-1	7/13/2022	10:10	H2O	5	polybumper	NONE	X	X	-001A/B
MW-2		12:20					X	X	-002A/B
~~MW-3~~							X	X	
MW-4		1:45					X	X	-003A/B
MW-5		4:00					X	X	-004A/B
MW-6		4:30					X	X	-005A/B
MW-7		11:15					X	X	-006A/B

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Monica Kunzel	7.15.22 0700	K Rodgers	K Rodgers	7.15.22 0905	
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS	
				NOTE SILICA GEL FOR TPH DEMO EPA METHOD 8015 STANDARD 5-DAY TAT	

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES

ENGEO INCORPORATED
2010 CROW CANYON PLACE SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (925) 866-0199
WWW.ENGEO.COM

D/O

temp 10.3 #3

Engeo (San Ramon)
2010 Crow Canyon Place,#250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199

RE: Cedar Boulevard

Work Order No.: 2207124

Dear Monica Kunzel:

Torrent Laboratory, Inc. received 1 sample(s) on July 15, 2022 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.



Kathie Evans
Project Manager

July 22, 2022
Date

Date: 7/22/2022

Client: Engeo (San Ramon)

Project: Cedar Boulevard

Work Order: 2207124

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Laboratory, Inc.

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date Received: 07/15/22
Date Reported: 07/22/22

MW-3 2207124-001

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:43 pm
Date Reported: 07/22/22

Client Sample ID:	MW-3	**Lab Sample ID:**	2207124-001A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 10:23		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/18/22 11:17:00AM
Prep Batch ID:	1143326	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	07/18/22	16:30	JZ	467617
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	07/18/22	16:30	JZ	467617
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
TAME	SW8260B	1	0.072	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	07/18/22	16:30	JZ	467617

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:43 pm
Date Reported: 07/22/22

Client Sample ID:	MW-3	**Lab Sample ID:**	2207124-001A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 10:23		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/18/22 11:17:00AM
Prep Batch ID:	1143326	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	07/18/22	16:30	JZ	467617
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	07/18/22	16:30	JZ	467617
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	07/18/22	16:30	JZ	467617
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	07/18/22	16:30	JZ	467617
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	07/18/22	16:30	JZ	467617
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	07/18/22	16:30	JZ	467617
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**118**		%	07/18/22	16:30	JZ	467617
(S) Toluene-d8	SW8260B		75.1 - 127		**97.1**		%	07/18/22	16:30	JZ	467617
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**101**		%	07/18/22	16:30	JZ	467617

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:43 pm
Date Reported: 07/22/22

Client Sample ID:	MW-3	**Lab Sample ID:**	2207124-001A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 10:23		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	7/18/22 11:17:00AM
Prep Batch ID:	1143327	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH Gasoline	8260TPH	1	29	50	ND		ug/L	07/18/22	16:30	JZ	467617
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**72.4**		%	07/18/22	16:30	JZ	467617

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:43 pm
Date Reported: 07/22/22

Client Sample ID:	MW-3	**Lab Sample ID:**	2207124-001B
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 10:23		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	7/19/22 9:23:00AM
Prep Batch ID:	1143299	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	07/19/22	21:03	SN	467715
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	07/19/22	21:03	SN	467715
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**40.4**		%	07/19/22	21:03	SN	467715

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2207124	**Prep Method:**	3510_TPH SG	**Prep Date:**	07/19/22	**Prep Batch:**	1143299
Matrix:	Water	**Analytical Method:**	SW8015B	**Analyzed Date:**	7/19/2022	**Analytical Batch:**	467715
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel (SG)	0.037	0.10	0.0468	
TPH as Motor Oil (SG)	0.11	0.40	0.133	
Pentacosane (S)			104	

Work Order:	2207124	**Prep Method:**	5030VOC	**Prep Date:**	07/18/22	**Prep Batch:**	1143326
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	7/18/2022	**Analytical Batch:**	467617
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.26	0.50	ND	
Chloromethane	0.17	0.50	ND	
Vinyl Chloride	0.21	0.50	ND	
Bromomethane	0.21	0.50	ND	
Chloroethane	0.11	0.50	ND	
Trichlorofluoromethane	0.19	0.50	ND	
1,1-Dichloroethene	0.14	0.50	ND	
Freon 113	0.34	0.50	ND	
Methylene Chloride	0.13	1.0	ND	
trans-1,2-Dichloroethene	0.16	0.50	ND	
MTBE	0.077	0.50	ND	
tert-Butanol	2.9	5.0	ND	
DIPE	0.12	0.50	ND	
1,1-Dichloroethane	0.12	0.50	ND	
ETBE	0.064	0.50	ND	
cis-1,2-Dichloroethene	0.15	0.50	ND	
2,2-Dichloropropane	0.094	0.50	ND	
Bromochloromethane	0.15	0.50	ND	
Chloroform	0.12	0.50	ND	
Carbon Tetrachloride	0.16	0.50	ND	
1,1,1-Trichloroethane	0.16	0.50	ND	
1,1-Dichloropropene	0.19	0.50	ND	
Benzene	0.065	0.50	ND	
TAME	0.072	0.50	ND	
1,2-Dichloroethane	0.11	0.50	ND	
Trichloroethylene	0.15	0.50	ND	
Dibromomethane	0.11	0.50	ND	
1,2-Dichloropropane	0.089	0.50	ND	
Bromodichloromethane	0.076	0.50	ND	
cis-1,3-Dichloropropene	0.078	0.50	ND	
Toluene	0.14	0.50	ND	
Tetrachloroethylene	0.24	0.50	ND	
trans-1,3-Dichloropropene	0.22	0.50	ND	
1,1,2-Trichloroethane	0.076	0.50	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2207124	**Prep Method:**	5030VOC	**Prep Date:**	07/18/22	**Prep Batch:**	1143326
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	7/18/2022	**Analytical Batch:**	467617
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dibromochloromethane	0.18	0.50	ND	
1,3-Dichloropropane	0.22	0.50	ND	
1,2-Dibromoethane	0.079	0.50	ND	
Chlorobenzene	0.16	0.50	ND	
Ethylbenzene	0.20	0.50	ND	
1,1,1,2-Tetrachloroethane	0.087	0.50	ND	
m,p-Xylene	0.39	1.0	ND	
o-Xylene	0.15	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.076	0.50	ND	
Isopropyl Benzene	0.22	0.50	ND	
n-Propylbenzene	0.30	0.50	ND	
Bromobenzene	0.15	0.50	ND	
1,1,2,2-Tetrachloroethane	0.079	0.50	ND	
2-Chlorotoluene	0.25	0.50	ND	
1,3,5-Trimethylbenzene	0.24	0.50	ND	
1,2,3-Trichloropropane	0.15	0.50	ND	
4-Chlorotoluene	0.22	0.50	ND	
tert-Butylbenzene	0.26	0.50	ND	
1,2,4-Trimethylbenzene	0.23	0.50	ND	
sec-Butyl Benzene	0.30	0.50	ND	
p-Isopropyltoluene	0.27	0.50	ND	
1,3-Dichlorobenzene	0.17	0.50	ND	
1,4-Dichlorobenzene	0.18	0.50	ND	
n-Butylbenzene	0.27	0.50	ND	
1,2-Dichlorobenzene	0.16	0.50	ND	
1,2-Dibromo-3-Chloropropane	0.76	2.0	ND	
Hexachlorobutadiene	0.62	2.0	ND	
1,2,4-Trichlorobenzene	0.93	2.0	ND	
Naphthalene	1.2	2.0	ND	
1,2,3-Trichlorobenzene	1.2	2.0	ND	
(S) Dibromofluoromethane			120	
(S) Toluene-d8			97.7	
(S) 4-Bromofluorobenzene			107	

Work Order:	2207124	**Prep Method:**	5030GRO	**Prep Date:**	07/18/22	**Prep Batch:**	1143327
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	7/18/2022	**Analytical Batch:**	467617
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH Gasoline	29	50	33	
(S) 4-Bromofluorobenzene			78.9	

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2207124	**Prep Method:**	3510_TPH SG	**Prep Date:**	07/19/22	**Prep Batch:**	1143299
Matrix:	Water	**Analytical Method:**	SW8015B	**Analyzed Date:**	7/19/2022	**Analytical Batch:**	467715
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.037	0.10	0.0468	1.0	69.1	73.5	6.17	42 - 115	30	
Pentacosane (S)			0.133	200	94.4	89.5		40 - 129		

Work Order:	2207124	**Prep Method:**	5030VOC	**Prep Date:**	07/18/22	**Prep Batch:**	1143326
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	7/18/2022	**Analytical Batch:**	467617
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.14	0.50	ND	17.9	110	105	4.17	61.4 - 129	30	
Benzene	0.16	0.50	ND	17.9	115	107	7.07	66.9 - 140	30	
Trichloroethylene	0.15	0.50	ND	17.9	106	100	5.43	69.3 - 144	30	
Toluene	0.14	0.50	ND	17.9	109	106	2.61	76.6 - 123	30	
Chlorobenzene	0.16	0.50	ND	17.9	106	103	3.23	73.9 - 137	30	
(S) Dibromofluoromethane				17.9	111	108		61.2 - 131		
(S) Toluene-d8				17.9	101	96.8		75.1 - 127		
(S) 4-Bromofluorobenzene				17.9	95.1	94.2		64.1 - 120		

Work Order:	2207124	**Prep Method:**	5030GRO	**Prep Date:**	07/18/22	**Prep Batch:**	1143327
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	7/18/2022	**Analytical Batch:**	467617
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH Gasoline	29	50	33	238	109	99.1	9.29	52.4 - 127	30	
(S) 4-Bromofluorobenzene				11.9	110	90.8		41.5 - 125		

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg/m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Project Name: Cedar Boulevard

Work Order No.: 2207124

Date and Time Received: 7/15/2022 5:43:00PM

Received By: Lorna Imbat

Physically Logged By: Lorna Imbat

Checklist Completed By: Lorna Imbat

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	Yes
Custody seals intact on sample bottles?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes			
Container/Temp Blank temperature in compliance?	Yes	Temperature:	3.0	°C
Water-VOA vials have zero headspace?	Yes			
Water-pH acceptable upon receipt?	N/A			

pH Checked by: N/A

pH Adjusted by: N/A

Comments:

Torrent LABORATORY, INC.

Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Cedar Boulevard
Project # : 15799.004.000
Report Due Date: 7/22/2022

QC Level: II
TAT Requested: 5+ day:5
Date Received: 7/15/2022
Time Received: 5:43 pm

Comments:

Work Order # : ***2207124***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
2207124-001A	MW-3	07/15/22 10:23	Water	08/29/22			VOC_W_8260B VOC_W_GRO	
2207124-001B	MW-3	07/15/22 10:23	Water	08/29/22			TPHDOSG_W_8015B	

Torrent LABORATORY, INC.

2207124

CHAIN OF CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME
1:799.004.000	CEDAR BOULEVARD

SAMPLED BY: (SIGNATURE/PRINT)
Jenna Keith

PROJECT MANAGER: (SIGNATURE/PRINT)
MONICA KUNZEL

ROUTING: E-MAIL mkunzel@engeo.com jkeith@engeo.com HARD COPY

SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	TPHG & VOCs EPA Method 8260	TPH D & MO EPA Method 8015M	gel clean-up														REMARKS REQUIRED DETECTION LIMITS
MW-3	7/15/22	10:23	H2O	5	VOA, Amber	N/A	X	X											-001A/B				

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Jenna Keith	7/15/22 17:37	[signature] 7.7	[signature]	07/15/22 5:43	[signature]

REMARKS
STANDARD TAT

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES

ENGEO INCORPORATED

2010 CROW CANYON PLACE SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (925) 866-0199
WWW.ENGEO.COM

Tem 2.6

DROP OFF

Engeo (San Ramon)
2010 Crow Canyon Place,#250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199

RE: Cedar Boulevard

Work Order No.: 2207125

Dear Monica Kunzel:

Torrent Laboratory, Inc. received 16 sample(s) on July 15, 2022 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.



Kathie Evans
Project Manager

July 22, 2022
Date

Date: 7/22/2022

Client: Engeo (San Ramon)

Project: Cedar Boulevard

Work Order: 2207125

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Laboratory, Inc.

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date Received: 07/15/22
Date Reported: 07/22/22

SG-1 @ 6' 2207125-001

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
1,1,1-Trichloroethane	ETO15	10	7.9	27	260
Tetrachloroethylene	ETO15	10	15	34	1400

SG-1 @ 10' 2207125-002

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
1,1,1-Trichloroethane	ETO15	10	7.9	27	350
Tetrachloroethylene	ETO15	10	15	34	1800

SG-2 @ 6' 2207125-003

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Tetrachloroethylene	ETO15	400	580	1400	63000
1,1-Dichloroethane	ETO15	30	16	61	1300
cis-1,2-Dichloroethene	ETO15	30	25	59	2900
1,1,1-Trichloroethane	ETO15	30	24	82	11000
Trichloroethylene	ETO15	30	24	81	1900

SG-3 @ 6' 2207125-004

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
1,1,1-Trichloroethane	ETO15	60	48	160	1400
Trichloroethylene	ETO15	60	48	160	300
Tetrachloroethylene	ETO15	60	87	200	13000

SG-3 @ 10' 2207125-005

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
1,1,1-Trichloroethane	ETO15	60	48	160	1100
Trichloroethylene	ETO15	60	48	160	280
Tetrachloroethylene	ETO15	60	87	200	9800

SG-4 @ 6' 2207125-006

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
1,1,1-Trichloroethane	ETO15	60	48	160	1900
Tetrachloroethylene	ETO15	60	87	200	17000

SG-4 @ 10' 2207125-007

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
1,1,1-Trichloroethane	ETO15	60	48	160	2100
Tetrachloroethylene	ETO15	60	87	200	16000

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date Received: 07/15/22
Date Reported: 07/22/22

SG-6 @ 6' 2207125-008

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Chloromethane	ETO15	60	120	250	360
1,1-Dichloroethane	ETO15	60	33	120	140
1,1,1-Trichloroethane	ETO15	60	48	160	210
Tetrachloroethylene	ETO15	60	87	200	11000

SG-6 @ 10' 2207125-009

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Chloromethane	ETO15	60	120	250	440
1,1-Dichloroethane	ETO15	60	33	120	190
Trichloroethylene	ETO15	60	48	160	270
Tetrachloroethylene	ETO15	60	87	200	11000

SG-7 @ 6' 2207125-010

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
1,1-Dichloroethene	ETO15	30	25	60	120
Acetone	ETO15	30	12	360	500
trans-1,2-Dichloroethene	ETO15	30	14	59	990
Hexane	ETO15	30	14	53	130
1,1-Dichloroethane	ETO15	30	16	61	800
cis-1,2-Dichloroethene	ETO15	30	25	59	7300
Trichloroethylene	ETO15	30	24	81	3800
Tetrachloroethylene	ETO15	30	44	100	4400

SG-7 @ 10' 2207125-011

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
1,1-Dichloroethene	ETO15	30	25	60	220
Acetone	ETO15	30	12	360	500
trans-1,2-Dichloroethene	ETO15	30	14	59	1300
Hexane	ETO15	30	14	53	110
1,1-Dichloroethane	ETO15	30	16	61	1000
Trichloroethylene	ETO15	30	24	81	4900
Tetrachloroethylene	ETO15	30	44	100	840
cis-1,2-Dichloroethene	ETO15	60	50	120	8200

SG-8 2207125-012

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
1,1,1-Trichloroethane	ETO15	3	2.4	8.2	12
Tetrachloroethylene	ETO15	3	4.4	10	16

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date Received: 07/15/22
Date Reported: 07/22/22

SG-9 2207125-013

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Carbon Disulfide	ETO15	1	0.37	1.6	3.9
2-Propanol (Isopropyl Alcohol)	ETO15	1	1.3	12	18
Acetone	ETO15	1	0.40	12	110
Chloroform	ETO15	1	0.97	2.4	9.1
1,1,1-Trichloroethane	ETO15	1	0.79	2.7	23
2-Butanone (MEK)	ETO15	1	0.39	1.5	7.8
Tetrachloroethylene	ETO15	1	1.5	3.4	46

SG-11 2207125-014

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
1,1,1-Trichloroethane	ETO15	3	2.4	8.2	28
Trichloroethylene	ETO15	3	2.4	8.1	13
Tetrachloroethylene	ETO15	6	8.7	20	950

SG-12 2207125-015

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Carbon Disulfide	ETO15	1	0.37	1.6	3.0
Acetone	ETO15	1	0.40	12	29
Chloroform	ETO15	1	0.97	2.4	6.8
1,1,1-Trichloroethane	ETO15	1	0.79	2.7	6.1
2-Butanone (MEK)	ETO15	1	0.39	1.5	4.9
Tetrachloroethylene	ETO15	1	1.5	3.4	67
Hexachlorobutadiene	ETO15	1	1.9	5.3	6.8

SG-13 2207125-016

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Carbon Disulfide	ETO15	1	0.37	1.6	1.6
Acetone	ETO15	1	0.40	12	54
1,1-Dichloroethane	ETO15	1	0.54	2.0	2.3
2-Butanone (MEK)	ETO15	1	0.39	1.5	4.9
Tetrachloroethylene	ETO15	1	1.5	3.4	55

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-1 @ 6'	**Lab Sample ID:**	2207125-001A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 13:00	**Certified Clean WO # :**	
Canister/Tube ID:	N1433	**Received PSI :**	12.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22 12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	10.00	16	25	ND	ND		07/18/22	16:31	BP	467655
1,1-Difluoroethane	ETO15	10.00	3.5	140	ND	ND		07/18/22	16:31	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	10.00	14	35	ND	ND		07/18/22	16:31	BP	467655
Chloromethane	ETO15	10.00	20	41	ND	ND		07/18/22	16:31	BP	467655
Vinyl Chloride	ETO15	10.00	2.3	13	ND	ND		07/18/22	16:31	BP	467655
1,3-Butadiene	ETO15	10.00	3.4	11	ND	ND		07/18/22	16:31	BP	467655
Bromomethane	ETO15	10.00	6.6	19	ND	ND		07/18/22	16:31	BP	467655
Chloroethane	ETO15	10.00	8.1	13	ND	ND		07/18/22	16:31	BP	467655
Trichlorofluoromethane	ETO15	10.00	5.6	28	ND	ND		07/18/22	16:31	BP	467655
1,1-Dichloroethene	ETO15	10.00	8.3	20	ND	ND		07/18/22	16:31	BP	467655
Freon 113	ETO15	10.00	10	38	ND	ND		07/18/22	16:31	BP	467655
Carbon Disulfide	ETO15	10.00	3.7	16	ND	ND		07/18/22	16:31	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	10.00	13	120	ND	ND		07/18/22	16:31	BP	467655
Methylene Chloride	ETO15	10.00	7.0	100	ND	ND		07/18/22	16:31	BP	467655
Acetone	ETO15	10.00	4.0	120	ND	ND		07/18/22	16:31	BP	467655
trans-1,2-Dichloroethene	ETO15	10.00	4.8	20	ND	ND		07/18/22	16:31	BP	467655
Hexane	ETO15	10.00	4.6	18	ND	ND		07/18/22	16:31	BP	467655
MTBE	ETO15	10.00	4.4	18	ND	ND		07/18/22	16:31	BP	467655
tert-Butanol	ETO15	10.00	6.2	15	ND	ND		07/18/22	16:31	BP	467655
Diisopropyl ether (DIPE)	ETO15	10.00	7.4	21	ND	ND		07/18/22	16:31	BP	467655
1,1-Dichloroethane	ETO15	10.00	5.4	20	ND	ND		07/18/22	16:31	BP	467655
ETBE	ETO15	10.00	3.3	21	ND	ND		07/18/22	16:31	BP	467655
cis-1,2-Dichloroethene	ETO15	10.00	8.3	20	ND	ND		07/18/22	16:31	BP	467655
Chloroform	ETO15	10.00	9.7	24	ND	ND		07/18/22	16:31	BP	467655
Vinyl Acetate	ETO15	10.00	7.6	18	ND	ND		07/18/22	16:31	BP	467655
Carbon Tetrachloride	ETO15	10.00	11	31	ND	ND		07/18/22	16:31	BP	467655
1,1,1-Trichloroethane	ETO15	10.00	7.9	27	260	47.62		07/18/22	16:31	BP	467655
2-Butanone (MEK)	ETO15	10.00	3.9	15	ND	ND		07/18/22	16:31	BP	467655
Ethyl Acetate	ETO15	10.00	4.8	18	ND	ND		07/18/22	16:31	BP	467655
Tetrahydrofuran	ETO15	10.00	4.5	15	ND	ND		07/18/22	16:31	BP	467655
Benzene	ETO15	10.00	4.4	16	ND	ND		07/18/22	16:31	BP	467655
TAME	ETO15	10.00	6.7	21	ND	ND		07/18/22	16:31	BP	467655
1,2-Dichloroethane (EDC)	ETO15	10.00	4.2	20	ND	ND		07/18/22	16:31	BP	467655
Trichloroethylene	ETO15	10.00	8.1	27	ND	ND		07/18/22	16:31	BP	467655
1,2-Dichloropropane	ETO15	10.00	7.6	23	ND	ND		07/18/22	16:31	BP	467655
Bromodichloromethane	ETO15	10.00	7.4	34	ND	ND		07/18/22	16:31	BP	467655
1,4-Dioxane	ETO15	10.00	18	36	ND	ND		07/18/22	16:31	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-1 @ 6'	**Lab Sample ID:**	2207125-001A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 13:00	**Certified Clean WO # :**	
Canister/Tube ID:	N1433	**Received PSI :**	12.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22 12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	10.00	11	23	ND	ND		07/18/22	16:31	BP	467655
Toluene	ETO15	10.00	7.5	19	ND	ND		07/18/22	16:31	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	10.00	7.5	21	ND	ND		07/18/22	16:31	BP	467655
cis-1,3-Dichloropropene	ETO15	10.00	4.2	23	ND	ND		07/18/22	16:31	BP	467655
Tetrachloroethylene	ETO15	10.00	15	34	1400	206.49		07/18/22	16:31	BP	467655
1,1,2-Trichloroethane	ETO15	10.00	5.8	27	ND	ND		07/18/22	16:31	BP	467655
Dibromochloromethane	ETO15	10.00	11	43	ND	ND		07/18/22	16:31	BP	467655
1,2-Dibromoethane (EDB)	ETO15	10.00	7.4	38	ND	ND		07/18/22	16:31	BP	467655
2-Hexanone	ETO15	10.00	6.5	21	ND	ND		07/18/22	16:31	BP	467655
Ethyl Benzene	ETO15	10.00	6.3	22	ND	ND		07/18/22	16:31	BP	467655
Chlorobenzene	ETO15	10.00	6.0	23	ND	ND		07/18/22	16:31	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	10.00	8.4	34	ND	ND		07/18/22	16:31	BP	467655
m,p-Xylene	ETO15	10.00	9.8	22	ND	ND		07/18/22	16:31	BP	467655
o-Xylene	ETO15	10.00	3.0	22	ND	ND		07/18/22	16:31	BP	467655
Styrene	ETO15	10.00	4.6	21	ND	ND		07/18/22	16:31	BP	467655
Bromoform	ETO15	10.00	13	52	ND	ND		07/18/22	16:31	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	10.00	8.2	34	ND	ND		07/18/22	16:31	BP	467655
4-Ethyl Toluene	ETO15	10.00	5.5	25	ND	ND		07/18/22	16:31	BP	467655
1,3,5-Trimethylbenzene	ETO15	10.00	3.0	25	ND	ND		07/18/22	16:31	BP	467655
1,2,4-Trimethylbenzene	ETO15	10.00	6.0	25	ND	ND		07/18/22	16:31	BP	467655
1,4-Dichlorobenzene	ETO15	10.00	7.5	30	ND	ND		07/18/22	16:31	BP	467655
1,3-Dichlorobenzene	ETO15	10.00	13	30	ND	ND		07/18/22	16:31	BP	467655
1,2-Dichlorobenzene	ETO15	10.00	11	30	ND	ND		07/18/22	16:31	BP	467655
Hexachlorobutadiene	ETO15	10.00	19	53	ND	ND		07/18/22	16:31	BP	467655
1,2,4-Trichlorobenzene	ETO15	10.00	22	37	ND	ND		07/18/22	16:31	BP	467655
Naphthalene	ETO15	10.00	13	26	ND	ND		07/18/22	16:31	BP	467655
(S) 4-Bromofluorobenzene	ETO15	10.00	50	150	89 %			07/18/22	16:31	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-1 @ 10'	**Lab Sample ID:**	2207125-002A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 13:22	**Certified Clean WO # :**	
Canister/Tube ID:	R3561	**Received PSI :**	14.2
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	10.00	16	25	ND	ND		07/18/22	16:56	BP	467655
1,1-Difluoroethane	ETO15	10.00	3.5	140	ND	ND		07/18/22	16:56	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	10.00	14	35	ND	ND		07/18/22	16:56	BP	467655
Chloromethane	ETO15	10.00	20	41	ND	ND		07/18/22	16:56	BP	467655
Vinyl Chloride	ETO15	10.00	2.3	13	ND	ND		07/18/22	16:56	BP	467655
1,3-Butadiene	ETO15	10.00	3.4	11	ND	ND		07/18/22	16:56	BP	467655
Bromomethane	ETO15	10.00	6.6	19	ND	ND		07/18/22	16:56	BP	467655
Chloroethane	ETO15	10.00	8.1	13	ND	ND		07/18/22	16:56	BP	467655
Trichlorofluoromethane	ETO15	10.00	5.6	28	ND	ND		07/18/22	16:56	BP	467655
1,1-Dichloroethene	ETO15	10.00	8.3	20	ND	ND		07/18/22	16:56	BP	467655
Freon 113	ETO15	10.00	10	38	ND	ND		07/18/22	16:56	BP	467655
Carbon Disulfide	ETO15	10.00	3.7	16	ND	ND		07/18/22	16:56	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	10.00	13	120	ND	ND		07/18/22	16:56	BP	467655
Methylene Chloride	ETO15	10.00	7.0	100	ND	ND		07/18/22	16:56	BP	467655
Acetone	ETO15	10.00	4.0	120	ND	ND		07/18/22	16:56	BP	467655
trans-1,2-Dichloroethene	ETO15	10.00	4.8	20	ND	ND		07/18/22	16:56	BP	467655
Hexane	ETO15	10.00	4.6	18	ND	ND		07/18/22	16:56	BP	467655
MTBE	ETO15	10.00	4.4	18	ND	ND		07/18/22	16:56	BP	467655
tert-Butanol	ETO15	10.00	6.2	15	ND	ND		07/18/22	16:56	BP	467655
Diisopropyl ether (DIPE)	ETO15	10.00	7.4	21	ND	ND		07/18/22	16:56	BP	467655
1,1-Dichloroethane	ETO15	10.00	5.4	20	ND	ND		07/18/22	16:56	BP	467655
ETBE	ETO15	10.00	3.3	21	ND	ND		07/18/22	16:56	BP	467655
cis-1,2-Dichloroethene	ETO15	10.00	8.3	20	ND	ND		07/18/22	16:56	BP	467655
Chloroform	ETO15	10.00	9.7	24	ND	ND		07/18/22	16:56	BP	467655
Vinyl Acetate	ETO15	10.00	7.6	18	ND	ND		07/18/22	16:56	BP	467655
Carbon Tetrachloride	ETO15	10.00	11	31	ND	ND		07/18/22	16:56	BP	467655
1,1,1-Trichloroethane	ETO15	10.00	7.9	27	350	64.10		07/18/22	16:56	BP	467655
2-Butanone (MEK)	ETO15	10.00	3.9	15	ND	ND		07/18/22	16:56	BP	467655
Ethyl Acetate	ETO15	10.00	4.8	18	ND	ND		07/18/22	16:56	BP	467655
Tetrahydrofuran	ETO15	10.00	4.5	15	ND	ND		07/18/22	16:56	BP	467655
Benzene	ETO15	10.00	4.4	16	ND	ND		07/18/22	16:56	BP	467655
TAME	ETO15	10.00	6.7	21	ND	ND		07/18/22	16:56	BP	467655
1,2-Dichloroethane (EDC)	ETO15	10.00	4.2	20	ND	ND		07/18/22	16:56	BP	467655
Trichloroethylene	ETO15	10.00	8.1	27	ND	ND		07/18/22	16:56	BP	467655
1,2-Dichloropropane	ETO15	10.00	7.6	23	ND	ND		07/18/22	16:56	BP	467655
Bromodichloromethane	ETO15	10.00	7.4	34	ND	ND		07/18/22	16:56	BP	467655
1,4-Dioxane	ETO15	10.00	18	36	ND	ND		07/18/22	16:56	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-1 @ 10'	**Lab Sample ID:**	2207125-002A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 13:22	**Certified Clean WO # :**	
Canister/Tube ID:	R3561	**Received PSI :**	14.2
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	10.00	11	23	ND	ND		07/18/22	16:56	BP	467655
Toluene	ETO15	10.00	7.5	19	ND	ND		07/18/22	16:56	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	10.00	7.5	21	ND	ND		07/18/22	16:56	BP	467655
cis-1,3-Dichloropropene	ETO15	10.00	4.2	23	ND	ND		07/18/22	16:56	BP	467655
Tetrachloroethylene	ETO15	10.00	15	34	1800	265.49		07/18/22	16:56	BP	467655
1,1,2-Trichloroethane	ETO15	10.00	5.8	27	ND	ND		07/18/22	16:56	BP	467655
Dibromochloromethane	ETO15	10.00	11	43	ND	ND		07/18/22	16:56	BP	467655
1,2-Dibromoethane (EDB)	ETO15	10.00	7.4	38	ND	ND		07/18/22	16:56	BP	467655
2-Hexanone	ETO15	10.00	6.5	21	ND	ND		07/18/22	16:56	BP	467655
Ethyl Benzene	ETO15	10.00	6.3	22	ND	ND		07/18/22	16:56	BP	467655
Chlorobenzene	ETO15	10.00	6.0	23	ND	ND		07/18/22	16:56	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	10.00	8.4	34	ND	ND		07/18/22	16:56	BP	467655
m,p-Xylene	ETO15	10.00	9.8	22	ND	ND		07/18/22	16:56	BP	467655
o-Xylene	ETO15	10.00	3.0	22	ND	ND		07/18/22	16:56	BP	467655
Styrene	ETO15	10.00	4.6	21	ND	ND		07/18/22	16:56	BP	467655
Bromoform	ETO15	10.00	13	52	ND	ND		07/18/22	16:56	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	10.00	8.2	34	ND	ND		07/18/22	16:56	BP	467655
4-Ethyl Toluene	ETO15	10.00	5.5	25	ND	ND		07/18/22	16:56	BP	467655
1,3,5-Trimethylbenzene	ETO15	10.00	3.0	25	ND	ND		07/18/22	16:56	BP	467655
1,2,4-Trimethylbenzene	ETO15	10.00	6.0	25	ND	ND		07/18/22	16:56	BP	467655
1,4-Dichlorobenzene	ETO15	10.00	7.5	30	ND	ND		07/18/22	16:56	BP	467655
1,3-Dichlorobenzene	ETO15	10.00	13	30	ND	ND		07/18/22	16:56	BP	467655
1,2-Dichlorobenzene	ETO15	10.00	11	30	ND	ND		07/18/22	16:56	BP	467655
Hexachlorobutadiene	ETO15	10.00	19	53	ND	ND		07/18/22	16:56	BP	467655
1,2,4-Trichlorobenzene	ETO15	10.00	22	37	ND	ND		07/18/22	16:56	BP	467655
Naphthalene	ETO15	10.00	13	26	ND	ND		07/18/22	16:56	BP	467655
(S) 4-Bromofluorobenzene	ETO15	10.00	50	150	89 %			07/18/22	16:56	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-2 @ 6'	**Lab Sample ID:**	2207125-003A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 14:26	**Certified Clean WO # :**	
Canister/Tube ID:	A12215	**Received PSI :**	14.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22 12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		07/18/22	14:50	BP	467655
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		07/18/22	14:50	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		07/18/22	14:50	BP	467655
Chloromethane	ETO15	30.00	61	120	ND	ND		07/18/22	14:50	BP	467655
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		07/18/22	14:50	BP	467655
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		07/18/22	14:50	BP	467655
Bromomethane	ETO15	30.00	20	58	ND	ND		07/18/22	14:50	BP	467655
Chloroethane	ETO15	30.00	24	40	ND	ND		07/18/22	14:50	BP	467655
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		07/18/22	14:50	BP	467655
1,1-Dichloroethene	ETO15	30.00	25	60	ND	ND		07/18/22	14:50	BP	467655
Freon 113	ETO15	30.00	31	110	ND	ND		07/18/22	14:50	BP	467655
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		07/18/22	14:50	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		07/18/22	14:50	BP	467655
Methylene Chloride	ETO15	30.00	21	310	ND	ND		07/18/22	14:50	BP	467655
Acetone	ETO15	30.00	12	360	ND	ND		07/18/22	14:50	BP	467655
trans-1,2-Dichloroethene	ETO15	30.00	14	59	ND	ND		07/18/22	14:50	BP	467655
Hexane	ETO15	30.00	14	53	ND	ND		07/18/22	14:50	BP	467655
MTBE	ETO15	30.00	13	54	ND	ND		07/18/22	14:50	BP	467655
tert-Butanol	ETO15	30.00	19	45	ND	ND		07/18/22	14:50	BP	467655
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		07/18/22	14:50	BP	467655
1,1-Dichloroethane	ETO15	30.00	16	61	1300	320.99		07/18/22	14:50	BP	467655
ETBE	ETO15	30.00	9.8	63	ND	ND		07/18/22	14:50	BP	467655
cis-1,2-Dichloroethene	ETO15	30.00	25	59	2900	732.32		07/18/22	14:50	BP	467655
Chloroform	ETO15	30.00	29	73	ND	ND		07/18/22	14:50	BP	467655
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		07/18/22	14:50	BP	467655
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		07/18/22	14:50	BP	467655
1,1,1-Trichloroethane	ETO15	30.00	24	82	11000	2,014.65	E	07/18/22	14:50	BP	467655
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		07/18/22	14:50	BP	467655
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		07/18/22	14:50	BP	467655
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		07/18/22	14:50	BP	467655
Benzene	ETO15	30.00	13	48	ND	ND		07/18/22	14:50	BP	467655
TAME	ETO15	30.00	20	63	ND	ND		07/18/22	14:50	BP	467655
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		07/18/22	14:50	BP	467655
Trichloroethylene	ETO15	30.00	24	81	1900	353.82		07/18/22	14:50	BP	467655
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		07/18/22	14:50	BP	467655
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		07/18/22	14:50	BP	467655
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		07/18/22	14:50	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-2 @ 6'	**Lab Sample ID:**	2207125-003A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 14:26	**Certified Clean WO # :**	
Canister/Tube ID:	A12215	**Received PSI :**	14.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method: TO15-P **Prep Batch Date/Time:** 7/18/22 12:00:00PM
Prep Batch ID: 1143357 **Prep Analyst:** BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		07/18/22	14:50	BP	467655
Toluene	ETO15	30.00	23	57	ND	ND		07/18/22	14:50	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		07/18/22	14:50	BP	467655
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		07/18/22	14:50	BP	467655
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		07/18/22	14:50	BP	467655
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		07/18/22	14:50	BP	467655
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		07/18/22	14:50	BP	467655
2-Hexanone	ETO15	30.00	20	62	ND	ND		07/18/22	14:50	BP	467655
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		07/18/22	14:50	BP	467655
Chlorobenzene	ETO15	30.00	18	69	ND	ND		07/18/22	14:50	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		07/18/22	14:50	BP	467655
m,p-Xylene	ETO15	30.00	29	65	ND	ND		07/18/22	14:50	BP	467655
o-Xylene	ETO15	30.00	9.1	65	ND	ND		07/18/22	14:50	BP	467655
Styrene	ETO15	30.00	14	64	ND	ND		07/18/22	14:50	BP	467655
Bromoform	ETO15	30.00	39	160	ND	ND		07/18/22	14:50	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		07/18/22	14:50	BP	467655
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		07/18/22	14:50	BP	467655
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		07/18/22	14:50	BP	467655
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		07/18/22	14:50	BP	467655
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		07/18/22	14:50	BP	467655
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		07/18/22	14:50	BP	467655
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		07/18/22	14:50	BP	467655
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		07/18/22	14:50	BP	467655
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		07/18/22	14:50	BP	467655
Naphthalene	ETO15	30.00	38	79	ND	ND		07/18/22	14:50	BP	467655
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	89 %			07/18/22	14:50	BP	467655

Prep Method: TO15-P **Prep Batch Date/Time:** 7/21/22 9:00:00AM
Prep Batch ID: 1143417 **Prep Analyst:** BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Tetrachloroethylene	ETO15	400.0	580	1400	63000	9,292.04		07/21/22	20:35	BA	467724
(S) 4-Bromofluorobenzene	ETO15	400.0	50	150	91 %			07/21/22	20:35	BA	467724

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-3 @ 6'	**Lab Sample ID:**	2207125-004A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 12:56	**Certified Clean WO # :**	
Canister/Tube ID:	R3579	**Received PSI :**	13.6
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	60.00	94	150	ND	ND		07/18/22	17:21	BP	467655
1,1-Difluoroethane	ETO15	60.00	21	810	ND	ND		07/18/22	17:21	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	60.00	84	210	ND	ND		07/18/22	17:21	BP	467655
Chloromethane	ETO15	60.00	120	250	ND	ND		07/18/22	17:21	BP	467655
Vinyl Chloride	ETO15	60.00	14	77	ND	ND		07/18/22	17:21	BP	467655
1,3-Butadiene	ETO15	60.00	20	66	ND	ND		07/18/22	17:21	BP	467655
Bromomethane	ETO15	60.00	39	120	ND	ND		07/18/22	17:21	BP	467655
Chloroethane	ETO15	60.00	49	79	ND	ND		07/18/22	17:21	BP	467655
Trichlorofluoromethane	ETO15	60.00	33	170	ND	ND		07/18/22	17:21	BP	467655
1,1-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	17:21	BP	467655
Freon 113	ETO15	60.00	61	230	ND	ND		07/18/22	17:21	BP	467655
Carbon Disulfide	ETO15	60.00	22	93	ND	ND		07/18/22	17:21	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	60.00	77	740	ND	ND		07/18/22	17:21	BP	467655
Methylene Chloride	ETO15	60.00	42	620	ND	ND		07/18/22	17:21	BP	467655
Acetone	ETO15	60.00	24	710	ND	ND		07/18/22	17:21	BP	467655
trans-1,2-Dichloroethene	ETO15	60.00	29	120	ND	ND		07/18/22	17:21	BP	467655
Hexane	ETO15	60.00	28	110	ND	ND		07/18/22	17:21	BP	467655
MTBE	ETO15	60.00	27	110	ND	ND		07/18/22	17:21	BP	467655
tert-Butanol	ETO15	60.00	37	91	ND	ND		07/18/22	17:21	BP	467655
Diisopropyl ether (DIPE)	ETO15	60.00	44	130	ND	ND		07/18/22	17:21	BP	467655
1,1-Dichloroethane	ETO15	60.00	33	120	ND	ND		07/18/22	17:21	BP	467655
ETBE	ETO15	60.00	20	130	ND	ND		07/18/22	17:21	BP	467655
cis-1,2-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	17:21	BP	467655
Chloroform	ETO15	60.00	58	150	ND	ND		07/18/22	17:21	BP	467655
Vinyl Acetate	ETO15	60.00	45	110	ND	ND		07/18/22	17:21	BP	467655
Carbon Tetrachloride	ETO15	60.00	66	190	ND	ND		07/18/22	17:21	BP	467655
1,1,1-Trichloroethane	ETO15	60.00	48	160	1400	256.41		07/18/22	17:21	BP	467655
2-Butanone (MEK)	ETO15	60.00	23	89	ND	ND		07/18/22	17:21	BP	467655
Ethyl Acetate	ETO15	60.00	29	110	ND	ND		07/18/22	17:21	BP	467655
Tetrahydrofuran	ETO15	60.00	27	89	ND	ND		07/18/22	17:21	BP	467655
Benzene	ETO15	60.00	26	96	ND	ND		07/18/22	17:21	BP	467655
TAME	ETO15	60.00	40	130	ND	ND		07/18/22	17:21	BP	467655
1,2-Dichloroethane (EDC)	ETO15	60.00	25	120	ND	ND		07/18/22	17:21	BP	467655
Trichloroethylene	ETO15	60.00	48	160	300	55.87		07/18/22	17:21	BP	467655
1,2-Dichloropropane	ETO15	60.00	46	140	ND	ND		07/18/22	17:21	BP	467655
Bromodichloromethane	ETO15	60.00	45	200	ND	ND		07/18/22	17:21	BP	467655
1,4-Dioxane	ETO15	60.00	110	220	ND	ND		07/18/22	17:21	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-3 @ 6'	**Lab Sample ID:**	2207125-004A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 12:56	**Certified Clean WO # :**	
Canister/Tube ID:	R3579	**Received PSI :**	13.6
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	60.00	64	140	ND	ND		07/18/22	17:21	BP	467655
Toluene	ETO15	60.00	45	110	ND	ND		07/18/22	17:21	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	60.00	45	120	ND	ND		07/18/22	17:21	BP	467655
cis-1,3-Dichloropropene	ETO15	60.00	25	140	ND	ND		07/18/22	17:21	BP	467655
Tetrachloroethylene	ETO15	60.00	87	200	13000	1,917.40		07/18/22	17:21	BP	467655
1,1,2-Trichloroethane	ETO15	60.00	35	160	ND	ND		07/18/22	17:21	BP	467655
Dibromochloromethane	ETO15	60.00	67	260	ND	ND		07/18/22	17:21	BP	467655
1,2-Dibromoethane (EDB)	ETO15	60.00	44	230	ND	ND		07/18/22	17:21	BP	467655
2-Hexanone	ETO15	60.00	39	120	ND	ND		07/18/22	17:21	BP	467655
Ethyl Benzene	ETO15	60.00	38	130	ND	ND		07/18/22	17:21	BP	467655
Chlorobenzene	ETO15	60.00	36	140	ND	ND		07/18/22	17:21	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	60.00	50	210	ND	ND		07/18/22	17:21	BP	467655
m,p-Xylene	ETO15	60.00	59	130	ND	ND		07/18/22	17:21	BP	467655
o-Xylene	ETO15	60.00	18	130	ND	ND		07/18/22	17:21	BP	467655
Styrene	ETO15	60.00	28	130	ND	ND		07/18/22	17:21	BP	467655
Bromoform	ETO15	60.00	78	310	ND	ND		07/18/22	17:21	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	60.00	49	210	ND	ND		07/18/22	17:21	BP	467655
4-Ethyl Toluene	ETO15	60.00	33	150	ND	ND		07/18/22	17:21	BP	467655
1,3,5-Trimethylbenzene	ETO15	60.00	18	150	ND	ND		07/18/22	17:21	BP	467655
1,2,4-Trimethylbenzene	ETO15	60.00	36	150	ND	ND		07/18/22	17:21	BP	467655
1,4-Dichlorobenzene	ETO15	60.00	45	180	ND	ND		07/18/22	17:21	BP	467655
1,3-Dichlorobenzene	ETO15	60.00	80	180	ND	ND		07/18/22	17:21	BP	467655
1,2-Dichlorobenzene	ETO15	60.00	64	180	ND	ND		07/18/22	17:21	BP	467655
Hexachlorobutadiene	ETO15	60.00	110	320	ND	ND		07/18/22	17:21	BP	467655
1,2,4-Trichlorobenzene	ETO15	60.00	130	220	ND	ND		07/18/22	17:21	BP	467655
Naphthalene	ETO15	60.00	76	160	ND	ND		07/18/22	17:21	BP	467655
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	88 %			07/18/22	17:21	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-3 @ 10'	**Lab Sample ID:**	2207125-005A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 17:04	**Certified Clean WO # :**	
Canister/Tube ID:	A12175	**Received PSI :**	12.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22 12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	60.00	94	150	ND	ND		07/18/22	17:46	BP	467655
1,1-Difluoroethane	ETO15	60.00	21	810	ND	ND		07/18/22	17:46	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	60.00	84	210	ND	ND		07/18/22	17:46	BP	467655
Chloromethane	ETO15	60.00	120	250	ND	ND		07/18/22	17:46	BP	467655
Vinyl Chloride	ETO15	60.00	14	77	ND	ND		07/18/22	17:46	BP	467655
1,3-Butadiene	ETO15	60.00	20	66	ND	ND		07/18/22	17:46	BP	467655
Bromomethane	ETO15	60.00	39	120	ND	ND		07/18/22	17:46	BP	467655
Chloroethane	ETO15	60.00	49	79	ND	ND		07/18/22	17:46	BP	467655
Trichlorofluoromethane	ETO15	60.00	33	170	ND	ND		07/18/22	17:46	BP	467655
1,1-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	17:46	BP	467655
Freon 113	ETO15	60.00	61	230	ND	ND		07/18/22	17:46	BP	467655
Carbon Disulfide	ETO15	60.00	22	93	ND	ND		07/18/22	17:46	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	60.00	77	740	ND	ND		07/18/22	17:46	BP	467655
Methylene Chloride	ETO15	60.00	42	620	ND	ND		07/18/22	17:46	BP	467655
Acetone	ETO15	60.00	24	710	ND	ND		07/18/22	17:46	BP	467655
trans-1,2-Dichloroethene	ETO15	60.00	29	120	ND	ND		07/18/22	17:46	BP	467655
Hexane	ETO15	60.00	28	110	ND	ND		07/18/22	17:46	BP	467655
MTBE	ETO15	60.00	27	110	ND	ND		07/18/22	17:46	BP	467655
tert-Butanol	ETO15	60.00	37	91	ND	ND		07/18/22	17:46	BP	467655
Diisopropyl ether (DIPE)	ETO15	60.00	44	130	ND	ND		07/18/22	17:46	BP	467655
1,1-Dichloroethane	ETO15	60.00	33	120	ND	ND		07/18/22	17:46	BP	467655
ETBE	ETO15	60.00	20	130	ND	ND		07/18/22	17:46	BP	467655
cis-1,2-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	17:46	BP	467655
Chloroform	ETO15	60.00	58	150	ND	ND		07/18/22	17:46	BP	467655
Vinyl Acetate	ETO15	60.00	45	110	ND	ND		07/18/22	17:46	BP	467655
Carbon Tetrachloride	ETO15	60.00	66	190	ND	ND		07/18/22	17:46	BP	467655
1,1,1-Trichloroethane	ETO15	60.00	48	160	1100	201.47		07/18/22	17:46	BP	467655
2-Butanone (MEK)	ETO15	60.00	23	89	ND	ND		07/18/22	17:46	BP	467655
Ethyl Acetate	ETO15	60.00	29	110	ND	ND		07/18/22	17:46	BP	467655
Tetrahydrofuran	ETO15	60.00	27	89	ND	ND		07/18/22	17:46	BP	467655
Benzene	ETO15	60.00	26	96	ND	ND		07/18/22	17:46	BP	467655
TAME	ETO15	60.00	40	130	ND	ND		07/18/22	17:46	BP	467655
1,2-Dichloroethane (EDC)	ETO15	60.00	25	120	ND	ND		07/18/22	17:46	BP	467655
Trichloroethylene	ETO15	60.00	48	160	280	52.14		07/18/22	17:46	BP	467655
1,2-Dichloropropane	ETO15	60.00	46	140	ND	ND		07/18/22	17:46	BP	467655
Bromodichloromethane	ETO15	60.00	45	200	ND	ND		07/18/22	17:46	BP	467655
1,4-Dioxane	ETO15	60.00	110	220	ND	ND		07/18/22	17:46	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-3 @ 10'	**Lab Sample ID:**	2207125-005A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 17:04	**Certified Clean WO # :**	
Canister/Tube ID:	A12175	**Received PSI :**	12.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	60.00	64	140	ND	ND		07/18/22	17:46	BP	467655
Toluene	ETO15	60.00	45	110	ND	ND		07/18/22	17:46	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	60.00	45	120	ND	ND		07/18/22	17:46	BP	467655
cis-1,3-Dichloropropene	ETO15	60.00	25	140	ND	ND		07/18/22	17:46	BP	467655
Tetrachloroethylene	ETO15	60.00	87	200	9800	1,445.43		07/18/22	17:46	BP	467655
1,1,2-Trichloroethane	ETO15	60.00	35	160	ND	ND		07/18/22	17:46	BP	467655
Dibromochloromethane	ETO15	60.00	67	260	ND	ND		07/18/22	17:46	BP	467655
1,2-Dibromoethane (EDB)	ETO15	60.00	44	230	ND	ND		07/18/22	17:46	BP	467655
2-Hexanone	ETO15	60.00	39	120	ND	ND		07/18/22	17:46	BP	467655
Ethyl Benzene	ETO15	60.00	38	130	ND	ND		07/18/22	17:46	BP	467655
Chlorobenzene	ETO15	60.00	36	140	ND	ND		07/18/22	17:46	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	60.00	50	210	ND	ND		07/18/22	17:46	BP	467655
m,p-Xylene	ETO15	60.00	59	130	ND	ND		07/18/22	17:46	BP	467655
o-Xylene	ETO15	60.00	18	130	ND	ND		07/18/22	17:46	BP	467655
Styrene	ETO15	60.00	28	130	ND	ND		07/18/22	17:46	BP	467655
Bromoform	ETO15	60.00	78	310	ND	ND		07/18/22	17:46	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	60.00	49	210	ND	ND		07/18/22	17:46	BP	467655
4-Ethyl Toluene	ETO15	60.00	33	150	ND	ND		07/18/22	17:46	BP	467655
1,3,5-Trimethylbenzene	ETO15	60.00	18	150	ND	ND		07/18/22	17:46	BP	467655
1,2,4-Trimethylbenzene	ETO15	60.00	36	150	ND	ND		07/18/22	17:46	BP	467655
1,4-Dichlorobenzene	ETO15	60.00	45	180	ND	ND		07/18/22	17:46	BP	467655
1,3-Dichlorobenzene	ETO15	60.00	80	180	ND	ND		07/18/22	17:46	BP	467655
1,2-Dichlorobenzene	ETO15	60.00	64	180	ND	ND		07/18/22	17:46	BP	467655
Hexachlorobutadiene	ETO15	60.00	110	320	ND	ND		07/18/22	17:46	BP	467655
1,2,4-Trichlorobenzene	ETO15	60.00	130	220	ND	ND		07/18/22	17:46	BP	467655
Naphthalene	ETO15	60.00	76	160	ND	ND		07/18/22	17:46	BP	467655
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	89 %			07/18/22	17:46	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-4 @ 6'	**Lab Sample ID:**	2207125-006A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:36	**Certified Clean WO # :**	
Canister/Tube ID:	R3598	**Received PSI :**	14.1
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	60.00	94	150	ND	ND		07/18/22	20:01	BP	467655
1,1-Difluoroethane	ETO15	60.00	21	810	ND	ND		07/18/22	20:01	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	60.00	84	210	ND	ND		07/18/22	20:01	BP	467655
Chloromethane	ETO15	60.00	120	250	ND	ND		07/18/22	20:01	BP	467655
Vinyl Chloride	ETO15	60.00	14	77	ND	ND		07/18/22	20:01	BP	467655
1,3-Butadiene	ETO15	60.00	20	66	ND	ND		07/18/22	20:01	BP	467655
Bromomethane	ETO15	60.00	39	120	ND	ND		07/18/22	20:01	BP	467655
Chloroethane	ETO15	60.00	49	79	ND	ND		07/18/22	20:01	BP	467655
Trichlorofluoromethane	ETO15	60.00	33	170	ND	ND		07/18/22	20:01	BP	467655
1,1-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	20:01	BP	467655
Freon 113	ETO15	60.00	61	230	ND	ND		07/18/22	20:01	BP	467655
Carbon Disulfide	ETO15	60.00	22	93	ND	ND		07/18/22	20:01	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	60.00	77	740	ND	ND		07/18/22	20:01	BP	467655
Methylene Chloride	ETO15	60.00	42	620	ND	ND		07/18/22	20:01	BP	467655
Acetone	ETO15	60.00	24	710	ND	ND		07/18/22	20:01	BP	467655
trans-1,2-Dichloroethene	ETO15	60.00	29	120	ND	ND		07/18/22	20:01	BP	467655
Hexane	ETO15	60.00	28	110	ND	ND		07/18/22	20:01	BP	467655
MTBE	ETO15	60.00	27	110	ND	ND		07/18/22	20:01	BP	467655
tert-Butanol	ETO15	60.00	37	91	ND	ND		07/18/22	20:01	BP	467655
Diisopropyl ether (DIPE)	ETO15	60.00	44	130	ND	ND		07/18/22	20:01	BP	467655
1,1-Dichloroethane	ETO15	60.00	33	120	ND	ND		07/18/22	20:01	BP	467655
ETBE	ETO15	60.00	20	130	ND	ND		07/18/22	20:01	BP	467655
cis-1,2-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	20:01	BP	467655
Chloroform	ETO15	60.00	58	150	ND	ND		07/18/22	20:01	BP	467655
Vinyl Acetate	ETO15	60.00	45	110	ND	ND		07/18/22	20:01	BP	467655
Carbon Tetrachloride	ETO15	60.00	66	190	ND	ND		07/18/22	20:01	BP	467655
1,1,1-Trichloroethane	ETO15	60.00	48	160	1900	347.99		07/18/22	20:01	BP	467655
2-Butanone (MEK)	ETO15	60.00	23	89	ND	ND		07/18/22	20:01	BP	467655
Ethyl Acetate	ETO15	60.00	29	110	ND	ND		07/18/22	20:01	BP	467655
Tetrahydrofuran	ETO15	60.00	27	89	ND	ND		07/18/22	20:01	BP	467655
Benzene	ETO15	60.00	26	96	ND	ND		07/18/22	20:01	BP	467655
TAME	ETO15	60.00	40	130	ND	ND		07/18/22	20:01	BP	467655
1,2-Dichloroethane (EDC)	ETO15	60.00	25	120	ND	ND		07/18/22	20:01	BP	467655
Trichloroethylene	ETO15	60.00	48	160	ND	ND		07/18/22	20:01	BP	467655
1,2-Dichloropropane	ETO15	60.00	46	140	ND	ND		07/18/22	20:01	BP	467655
Bromodichloromethane	ETO15	60.00	45	200	ND	ND		07/18/22	20:01	BP	467655
1,4-Dioxane	ETO15	60.00	110	220	ND	ND		07/18/22	20:01	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-4 @ 6'	**Lab Sample ID:**	2207125-006A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:36	**Certified Clean WO # :**	
Canister/Tube ID:	R3598	**Received PSI :**	14.1
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	60.00	64	140	ND	ND		07/18/22	20:01	BP	467655
Toluene	ETO15	60.00	45	110	ND	ND		07/18/22	20:01	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	60.00	45	120	ND	ND		07/18/22	20:01	BP	467655
cis-1,3-Dichloropropene	ETO15	60.00	25	140	ND	ND		07/18/22	20:01	BP	467655
Tetrachloroethylene	ETO15	60.00	87	200	17000	2,507.37		07/18/22	20:01	BP	467655
1,1,2-Trichloroethane	ETO15	60.00	35	160	ND	ND		07/18/22	20:01	BP	467655
Dibromochloromethane	ETO15	60.00	67	260	ND	ND		07/18/22	20:01	BP	467655
1,2-Dibromoethane (EDB)	ETO15	60.00	44	230	ND	ND		07/18/22	20:01	BP	467655
2-Hexanone	ETO15	60.00	39	120	ND	ND		07/18/22	20:01	BP	467655
Ethyl Benzene	ETO15	60.00	38	130	ND	ND		07/18/22	20:01	BP	467655
Chlorobenzene	ETO15	60.00	36	140	ND	ND		07/18/22	20:01	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	60.00	50	210	ND	ND		07/18/22	20:01	BP	467655
m,p-Xylene	ETO15	60.00	59	130	ND	ND		07/18/22	20:01	BP	467655
o-Xylene	ETO15	60.00	18	130	ND	ND		07/18/22	20:01	BP	467655
Styrene	ETO15	60.00	28	130	ND	ND		07/18/22	20:01	BP	467655
Bromoform	ETO15	60.00	78	310	ND	ND		07/18/22	20:01	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	60.00	49	210	ND	ND		07/18/22	20:01	BP	467655
4-Ethyl Toluene	ETO15	60.00	33	150	ND	ND		07/18/22	20:01	BP	467655
1,3,5-Trimethylbenzene	ETO15	60.00	18	150	ND	ND		07/18/22	20:01	BP	467655
1,2,4-Trimethylbenzene	ETO15	60.00	36	150	ND	ND		07/18/22	20:01	BP	467655
1,4-Dichlorobenzene	ETO15	60.00	45	180	ND	ND		07/18/22	20:01	BP	467655
1,3-Dichlorobenzene	ETO15	60.00	80	180	ND	ND		07/18/22	20:01	BP	467655
1,2-Dichlorobenzene	ETO15	60.00	64	180	ND	ND		07/18/22	20:01	BP	467655
Hexachlorobutadiene	ETO15	60.00	110	320	ND	ND		07/18/22	20:01	BP	467655
1,2,4-Trichlorobenzene	ETO15	60.00	130	220	ND	ND		07/18/22	20:01	BP	467655
Naphthalene	ETO15	60.00	76	160	ND	ND		07/18/22	20:01	BP	467655
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	85 %			07/18/22	20:01	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-4 @ 10'	**Lab Sample ID:**	2207125-007A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 17:07	**Certified Clean WO # :**	
Canister/Tube ID:	A12262	**Received PSI :**	12.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	60.00	94	150	ND	ND		07/18/22	18:36	BP	467655
1,1-Difluoroethane	ETO15	60.00	21	810	ND	ND		07/18/22	18:36	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	60.00	84	210	ND	ND		07/18/22	18:36	BP	467655
Chloromethane	ETO15	60.00	120	250	ND	ND		07/18/22	18:36	BP	467655
Vinyl Chloride	ETO15	60.00	14	77	ND	ND		07/18/22	18:36	BP	467655
1,3-Butadiene	ETO15	60.00	20	66	ND	ND		07/18/22	18:36	BP	467655
Bromomethane	ETO15	60.00	39	120	ND	ND		07/18/22	18:36	BP	467655
Chloroethane	ETO15	60.00	49	79	ND	ND		07/18/22	18:36	BP	467655
Trichlorofluoromethane	ETO15	60.00	33	170	ND	ND		07/18/22	18:36	BP	467655
1,1-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	18:36	BP	467655
Freon 113	ETO15	60.00	61	230	ND	ND		07/18/22	18:36	BP	467655
Carbon Disulfide	ETO15	60.00	22	93	ND	ND		07/18/22	18:36	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	60.00	77	740	ND	ND		07/18/22	18:36	BP	467655
Methylene Chloride	ETO15	60.00	42	620	ND	ND		07/18/22	18:36	BP	467655
Acetone	ETO15	60.00	24	710	ND	ND		07/18/22	18:36	BP	467655
trans-1,2-Dichloroethene	ETO15	60.00	29	120	ND	ND		07/18/22	18:36	BP	467655
Hexane	ETO15	60.00	28	110	ND	ND		07/18/22	18:36	BP	467655
MTBE	ETO15	60.00	27	110	ND	ND		07/18/22	18:36	BP	467655
tert-Butanol	ETO15	60.00	37	91	ND	ND		07/18/22	18:36	BP	467655
Diisopropyl ether (DIPE)	ETO15	60.00	44	130	ND	ND		07/18/22	18:36	BP	467655
1,1-Dichloroethane	ETO15	60.00	33	120	ND	ND		07/18/22	18:36	BP	467655
ETBE	ETO15	60.00	20	130	ND	ND		07/18/22	18:36	BP	467655
cis-1,2-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	18:36	BP	467655
Chloroform	ETO15	60.00	58	150	ND	ND		07/18/22	18:36	BP	467655
Vinyl Acetate	ETO15	60.00	45	110	ND	ND		07/18/22	18:36	BP	467655
Carbon Tetrachloride	ETO15	60.00	66	190	ND	ND		07/18/22	18:36	BP	467655
1,1,1-Trichloroethane	ETO15	60.00	48	160	2100	384.62		07/18/22	18:36	BP	467655
2-Butanone (MEK)	ETO15	60.00	23	89	ND	ND		07/18/22	18:36	BP	467655
Ethyl Acetate	ETO15	60.00	29	110	ND	ND		07/18/22	18:36	BP	467655
Tetrahydrofuran	ETO15	60.00	27	89	ND	ND		07/18/22	18:36	BP	467655
Benzene	ETO15	60.00	26	96	ND	ND		07/18/22	18:36	BP	467655
TAME	ETO15	60.00	40	130	ND	ND		07/18/22	18:36	BP	467655
1,2-Dichloroethane (EDC)	ETO15	60.00	25	120	ND	ND		07/18/22	18:36	BP	467655
Trichloroethylene	ETO15	60.00	48	160	ND	ND		07/18/22	18:36	BP	467655
1,2-Dichloropropane	ETO15	60.00	46	140	ND	ND		07/18/22	18:36	BP	467655
Bromodichloromethane	ETO15	60.00	45	200	ND	ND		07/18/22	18:36	BP	467655
1,4-Dioxane	ETO15	60.00	110	220	ND	ND		07/18/22	18:36	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-4 @ 10'	**Lab Sample ID:**	2207125-007A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 17:07	**Certified Clean WO # :**	
Canister/Tube ID:	A12262	**Received PSI :**	12.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	60.00	64	140	ND	ND		07/18/22	18:36	BP	467655
Toluene	ETO15	60.00	45	110	ND	ND		07/18/22	18:36	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	60.00	45	120	ND	ND		07/18/22	18:36	BP	467655
cis-1,3-Dichloropropene	ETO15	60.00	25	140	ND	ND		07/18/22	18:36	BP	467655
Tetrachloroethylene	ETO15	60.00	87	200	16000	2,359.88		07/18/22	18:36	BP	467655
1,1,2-Trichloroethane	ETO15	60.00	35	160	ND	ND		07/18/22	18:36	BP	467655
Dibromochloromethane	ETO15	60.00	67	260	ND	ND		07/18/22	18:36	BP	467655
1,2-Dibromoethane (EDB)	ETO15	60.00	44	230	ND	ND		07/18/22	18:36	BP	467655
2-Hexanone	ETO15	60.00	39	120	ND	ND		07/18/22	18:36	BP	467655
Ethyl Benzene	ETO15	60.00	38	130	ND	ND		07/18/22	18:36	BP	467655
Chlorobenzene	ETO15	60.00	36	140	ND	ND		07/18/22	18:36	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	60.00	50	210	ND	ND		07/18/22	18:36	BP	467655
m,p-Xylene	ETO15	60.00	59	130	ND	ND		07/18/22	18:36	BP	467655
o-Xylene	ETO15	60.00	18	130	ND	ND		07/18/22	18:36	BP	467655
Styrene	ETO15	60.00	28	130	ND	ND		07/18/22	18:36	BP	467655
Bromoform	ETO15	60.00	78	310	ND	ND		07/18/22	18:36	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	60.00	49	210	ND	ND		07/18/22	18:36	BP	467655
4-Ethyl Toluene	ETO15	60.00	33	150	ND	ND		07/18/22	18:36	BP	467655
1,3,5-Trimethylbenzene	ETO15	60.00	18	150	ND	ND		07/18/22	18:36	BP	467655
1,2,4-Trimethylbenzene	ETO15	60.00	36	150	ND	ND		07/18/22	18:36	BP	467655
1,4-Dichlorobenzene	ETO15	60.00	45	180	ND	ND		07/18/22	18:36	BP	467655
1,3-Dichlorobenzene	ETO15	60.00	80	180	ND	ND		07/18/22	18:36	BP	467655
1,2-Dichlorobenzene	ETO15	60.00	64	180	ND	ND		07/18/22	18:36	BP	467655
Hexachlorobutadiene	ETO15	60.00	110	320	ND	ND		07/18/22	18:36	BP	467655
1,2,4-Trichlorobenzene	ETO15	60.00	130	220	ND	ND		07/18/22	18:36	BP	467655
Naphthalene	ETO15	60.00	76	160	ND	ND		07/18/22	18:36	BP	467655
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	82 %			07/18/22	18:36	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-6 @ 6'	**Lab Sample ID:**	2207125-008A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 14:25	**Certified Clean WO # :**	
Canister/Tube ID:	R3583	**Received PSI :**	12.4
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22 12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	60.00	94	150	ND	ND		07/18/22	19:01	BP	467655
1,1-Difluoroethane	ETO15	60.00	21	810	ND	ND		07/18/22	19:01	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	60.00	84	210	ND	ND		07/18/22	19:01	BP	467655
Chloromethane	ETO15	60.00	120	250	360	173.91		07/18/22	19:01	BP	467655
Vinyl Chloride	ETO15	60.00	14	77	ND	ND		07/18/22	19:01	BP	467655
1,3-Butadiene	ETO15	60.00	20	66	ND	ND		07/18/22	19:01	BP	467655
Bromomethane	ETO15	60.00	39	120	ND	ND		07/18/22	19:01	BP	467655
Chloroethane	ETO15	60.00	49	79	ND	ND		07/18/22	19:01	BP	467655
Trichlorofluoromethane	ETO15	60.00	33	170	ND	ND		07/18/22	19:01	BP	467655
1,1-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	19:01	BP	467655
Freon 113	ETO15	60.00	61	230	ND	ND		07/18/22	19:01	BP	467655
Carbon Disulfide	ETO15	60.00	22	93	ND	ND		07/18/22	19:01	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	60.00	77	740	ND	ND		07/18/22	19:01	BP	467655
Methylene Chloride	ETO15	60.00	42	620	ND	ND		07/18/22	19:01	BP	467655
Acetone	ETO15	60.00	24	710	ND	ND		07/18/22	19:01	BP	467655
trans-1,2-Dichloroethene	ETO15	60.00	29	120	ND	ND		07/18/22	19:01	BP	467655
Hexane	ETO15	60.00	28	110	ND	ND		07/18/22	19:01	BP	467655
MTBE	ETO15	60.00	27	110	ND	ND		07/18/22	19:01	BP	467655
tert-Butanol	ETO15	60.00	37	91	ND	ND		07/18/22	19:01	BP	467655
Diisopropyl ether (DIPE)	ETO15	60.00	44	130	ND	ND		07/18/22	19:01	BP	467655
1,1-Dichloroethane	ETO15	60.00	33	120	140	34.57		07/18/22	19:01	BP	467655
ETBE	ETO15	60.00	20	130	ND	ND		07/18/22	19:01	BP	467655
cis-1,2-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	19:01	BP	467655
Chloroform	ETO15	60.00	58	150	ND	ND		07/18/22	19:01	BP	467655
Vinyl Acetate	ETO15	60.00	45	110	ND	ND		07/18/22	19:01	BP	467655
Carbon Tetrachloride	ETO15	60.00	66	190	ND	ND		07/18/22	19:01	BP	467655
1,1,1-Trichloroethane	ETO15	60.00	48	160	210	38.46		07/18/22	19:01	BP	467655
2-Butanone (MEK)	ETO15	60.00	23	89	ND	ND		07/18/22	19:01	BP	467655
Ethyl Acetate	ETO15	60.00	29	110	ND	ND		07/18/22	19:01	BP	467655
Tetrahydrofuran	ETO15	60.00	27	89	ND	ND		07/18/22	19:01	BP	467655
Benzene	ETO15	60.00	26	96	ND	ND		07/18/22	19:01	BP	467655
TAME	ETO15	60.00	40	130	ND	ND		07/18/22	19:01	BP	467655
1,2-Dichloroethane (EDC)	ETO15	60.00	25	120	ND	ND		07/18/22	19:01	BP	467655
Trichloroethylene	ETO15	60.00	48	160	ND	ND		07/18/22	19:01	BP	467655
1,2-Dichloropropane	ETO15	60.00	46	140	ND	ND		07/18/22	19:01	BP	467655
Bromodichloromethane	ETO15	60.00	45	200	ND	ND		07/18/22	19:01	BP	467655
1,4-Dioxane	ETO15	60.00	110	220	ND	ND		07/18/22	19:01	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-6 @ 6'	**Lab Sample ID:**	2207125-008A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 14:25	**Certified Clean WO # :**	
Canister/Tube ID:	R3583	**Received PSI :**	12.4
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	60.00	64	140	ND	ND		07/18/22	19:01	BP	467655
Toluene	ETO15	60.00	45	110	ND	ND		07/18/22	19:01	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	60.00	45	120	ND	ND		07/18/22	19:01	BP	467655
cis-1,3-Dichloropropene	ETO15	60.00	25	140	ND	ND		07/18/22	19:01	BP	467655
Tetrachloroethylene	ETO15	60.00	87	200	11000	1,622.42		07/18/22	19:01	BP	467655
1,1,2-Trichloroethane	ETO15	60.00	35	160	ND	ND		07/18/22	19:01	BP	467655
Dibromochloromethane	ETO15	60.00	67	260	ND	ND		07/18/22	19:01	BP	467655
1,2-Dibromoethane (EDB)	ETO15	60.00	44	230	ND	ND		07/18/22	19:01	BP	467655
2-Hexanone	ETO15	60.00	39	120	ND	ND		07/18/22	19:01	BP	467655
Ethyl Benzene	ETO15	60.00	38	130	ND	ND		07/18/22	19:01	BP	467655
Chlorobenzene	ETO15	60.00	36	140	ND	ND		07/18/22	19:01	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	60.00	50	210	ND	ND		07/18/22	19:01	BP	467655
m,p-Xylene	ETO15	60.00	59	130	ND	ND		07/18/22	19:01	BP	467655
o-Xylene	ETO15	60.00	18	130	ND	ND		07/18/22	19:01	BP	467655
Styrene	ETO15	60.00	28	130	ND	ND		07/18/22	19:01	BP	467655
Bromoform	ETO15	60.00	78	310	ND	ND		07/18/22	19:01	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	60.00	49	210	ND	ND		07/18/22	19:01	BP	467655
4-Ethyl Toluene	ETO15	60.00	33	150	ND	ND		07/18/22	19:01	BP	467655
1,3,5-Trimethylbenzene	ETO15	60.00	18	150	ND	ND		07/18/22	19:01	BP	467655
1,2,4-Trimethylbenzene	ETO15	60.00	36	150	ND	ND		07/18/22	19:01	BP	467655
1,4-Dichlorobenzene	ETO15	60.00	45	180	ND	ND		07/18/22	19:01	BP	467655
1,3-Dichlorobenzene	ETO15	60.00	80	180	ND	ND		07/18/22	19:01	BP	467655
1,2-Dichlorobenzene	ETO15	60.00	64	180	ND	ND		07/18/22	19:01	BP	467655
Hexachlorobutadiene	ETO15	60.00	110	320	ND	ND		07/18/22	19:01	BP	467655
1,2,4-Trichlorobenzene	ETO15	60.00	130	220	ND	ND		07/18/22	19:01	BP	467655
Naphthalene	ETO15	60.00	76	160	ND	ND		07/18/22	19:01	BP	467655
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	92 %			07/18/22	19:01	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-6 @ 10'	**Lab Sample ID:**	2207125-009A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 14:32	**Certified Clean WO # :**	
Canister/Tube ID:	A11734	**Received PSI :**	13.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	60.00	94	150	ND	ND		07/18/22	19:26	BP	467655
1,1-Difluoroethane	ETO15	60.00	21	810	ND	ND		07/18/22	19:26	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	60.00	84	210	ND	ND		07/18/22	19:26	BP	467655
Chloromethane	ETO15	60.00	120	250	440	212.56		07/18/22	19:26	BP	467655
Vinyl Chloride	ETO15	60.00	14	77	ND	ND		07/18/22	19:26	BP	467655
1,3-Butadiene	ETO15	60.00	20	66	ND	ND		07/18/22	19:26	BP	467655
Bromomethane	ETO15	60.00	39	120	ND	ND		07/18/22	19:26	BP	467655
Chloroethane	ETO15	60.00	49	79	ND	ND		07/18/22	19:26	BP	467655
Trichlorofluoromethane	ETO15	60.00	33	170	ND	ND		07/18/22	19:26	BP	467655
1,1-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	19:26	BP	467655
Freon 113	ETO15	60.00	61	230	ND	ND		07/18/22	19:26	BP	467655
Carbon Disulfide	ETO15	60.00	22	93	ND	ND		07/18/22	19:26	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	60.00	77	740	ND	ND		07/18/22	19:26	BP	467655
Methylene Chloride	ETO15	60.00	42	620	ND	ND		07/18/22	19:26	BP	467655
Acetone	ETO15	60.00	24	710	ND	ND		07/18/22	19:26	BP	467655
trans-1,2-Dichloroethene	ETO15	60.00	29	120	ND	ND		07/18/22	19:26	BP	467655
Hexane	ETO15	60.00	28	110	ND	ND		07/18/22	19:26	BP	467655
MTBE	ETO15	60.00	27	110	ND	ND		07/18/22	19:26	BP	467655
tert-Butanol	ETO15	60.00	37	91	ND	ND		07/18/22	19:26	BP	467655
Diisopropyl ether (DIPE)	ETO15	60.00	44	130	ND	ND		07/18/22	19:26	BP	467655
1,1-Dichloroethane	ETO15	60.00	33	120	190	46.91		07/18/22	19:26	BP	467655
ETBE	ETO15	60.00	20	130	ND	ND		07/18/22	19:26	BP	467655
cis-1,2-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	19:26	BP	467655
Chloroform	ETO15	60.00	58	150	ND	ND		07/18/22	19:26	BP	467655
Vinyl Acetate	ETO15	60.00	45	110	ND	ND		07/18/22	19:26	BP	467655
Carbon Tetrachloride	ETO15	60.00	66	190	ND	ND		07/18/22	19:26	BP	467655
1,1,1-Trichloroethane	ETO15	60.00	48	160	ND	ND		07/18/22	19:26	BP	467655
2-Butanone (MEK)	ETO15	60.00	23	89	ND	ND		07/18/22	19:26	BP	467655
Ethyl Acetate	ETO15	60.00	29	110	ND	ND		07/18/22	19:26	BP	467655
Tetrahydrofuran	ETO15	60.00	27	89	ND	ND		07/18/22	19:26	BP	467655
Benzene	ETO15	60.00	26	96	ND	ND		07/18/22	19:26	BP	467655
TAME	ETO15	60.00	40	130	ND	ND		07/18/22	19:26	BP	467655
1,2-Dichloroethane (EDC)	ETO15	60.00	25	120	ND	ND		07/18/22	19:26	BP	467655
Trichloroethylene	ETO15	60.00	48	160	270	50.28		07/18/22	19:26	BP	467655
1,2-Dichloropropane	ETO15	60.00	46	140	ND	ND		07/18/22	19:26	BP	467655
Bromodichloromethane	ETO15	60.00	45	200	ND	ND		07/18/22	19:26	BP	467655
1,4-Dioxane	ETO15	60.00	110	220	ND	ND		07/18/22	19:26	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-6 @ 10'	**Lab Sample ID:**	2207125-009A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 14:32	**Certified Clean WO # :**	
Canister/Tube ID:	A11734	**Received PSI :**	13.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	60.00	64	140	ND	ND		07/18/22	19:26	BP	467655
Toluene	ETO15	60.00	45	110	ND	ND		07/18/22	19:26	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	60.00	45	120	ND	ND		07/18/22	19:26	BP	467655
cis-1,3-Dichloropropene	ETO15	60.00	25	140	ND	ND		07/18/22	19:26	BP	467655
Tetrachloroethylene	ETO15	60.00	87	200	11000	1,622.42		07/18/22	19:26	BP	467655
1,1,2-Trichloroethane	ETO15	60.00	35	160	ND	ND		07/18/22	19:26	BP	467655
Dibromochloromethane	ETO15	60.00	67	260	ND	ND		07/18/22	19:26	BP	467655
1,2-Dibromoethane (EDB)	ETO15	60.00	44	230	ND	ND		07/18/22	19:26	BP	467655
2-Hexanone	ETO15	60.00	39	120	ND	ND		07/18/22	19:26	BP	467655
Ethyl Benzene	ETO15	60.00	38	130	ND	ND		07/18/22	19:26	BP	467655
Chlorobenzene	ETO15	60.00	36	140	ND	ND		07/18/22	19:26	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	60.00	50	210	ND	ND		07/18/22	19:26	BP	467655
m,p-Xylene	ETO15	60.00	59	130	ND	ND		07/18/22	19:26	BP	467655
o-Xylene	ETO15	60.00	18	130	ND	ND		07/18/22	19:26	BP	467655
Styrene	ETO15	60.00	28	130	ND	ND		07/18/22	19:26	BP	467655
Bromoform	ETO15	60.00	78	310	ND	ND		07/18/22	19:26	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	60.00	49	210	ND	ND		07/18/22	19:26	BP	467655
4-Ethyl Toluene	ETO15	60.00	33	150	ND	ND		07/18/22	19:26	BP	467655
1,3,5-Trimethylbenzene	ETO15	60.00	18	150	ND	ND		07/18/22	19:26	BP	467655
1,2,4-Trimethylbenzene	ETO15	60.00	36	150	ND	ND		07/18/22	19:26	BP	467655
1,4-Dichlorobenzene	ETO15	60.00	45	180	ND	ND		07/18/22	19:26	BP	467655
1,3-Dichlorobenzene	ETO15	60.00	80	180	ND	ND		07/18/22	19:26	BP	467655
1,2-Dichlorobenzene	ETO15	60.00	64	180	ND	ND		07/18/22	19:26	BP	467655
Hexachlorobutadiene	ETO15	60.00	110	320	ND	ND		07/18/22	19:26	BP	467655
1,2,4-Trichlorobenzene	ETO15	60.00	130	220	ND	ND		07/18/22	19:26	BP	467655
Naphthalene	ETO15	60.00	76	160	ND	ND		07/18/22	19:26	BP	467655
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	90 %			07/18/22	19:26	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-7 @ 6'	**Lab Sample ID:**	2207125-010A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 15:32	**Certified Clean WO # :**	
Canister/Tube ID:	R3554	**Received PSI :**	11.4
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		07/18/22	20:26	BP	467655
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		07/18/22	20:26	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		07/18/22	20:26	BP	467655
Chloromethane	ETO15	30.00	61	120	ND	ND		07/18/22	20:26	BP	467655
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		07/18/22	20:26	BP	467655
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		07/18/22	20:26	BP	467655
Bromomethane	ETO15	30.00	20	58	ND	ND		07/18/22	20:26	BP	467655
Chloroethane	ETO15	30.00	24	40	ND	ND		07/18/22	20:26	BP	467655
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		07/18/22	20:26	BP	467655
1,1-Dichloroethene	ETO15	30.00	25	60	120	30.23		07/18/22	20:26	BP	467655
Freon 113	ETO15	30.00	31	110	ND	ND		07/18/22	20:26	BP	467655
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		07/18/22	20:26	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		07/18/22	20:26	BP	467655
Methylene Chloride	ETO15	30.00	21	310	ND	ND		07/18/22	20:26	BP	467655
Acetone	ETO15	30.00	12	360	500	210.08		07/18/22	20:26	BP	467655
trans-1,2-Dichloroethene	ETO15	30.00	14	59	990	250.00		07/18/22	20:26	BP	467655
Hexane	ETO15	30.00	14	53	130	36.93		07/18/22	20:26	BP	467655
MTBE	ETO15	30.00	13	54	ND	ND		07/18/22	20:26	BP	467655
tert-Butanol	ETO15	30.00	19	45	ND	ND		07/18/22	20:26	BP	467655
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		07/18/22	20:26	BP	467655
1,1-Dichloroethane	ETO15	30.00	16	61	800	197.53		07/18/22	20:26	BP	467655
ETBE	ETO15	30.00	9.8	63	ND	ND		07/18/22	20:26	BP	467655
cis-1,2-Dichloroethene	ETO15	30.00	25	59	7300	1,843.43		07/18/22	20:26	BP	467655
Chloroform	ETO15	30.00	29	73	ND	ND		07/18/22	20:26	BP	467655
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		07/18/22	20:26	BP	467655
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		07/18/22	20:26	BP	467655
1,1,1-Trichloroethane	ETO15	30.00	24	82	ND	ND		07/18/22	20:26	BP	467655
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		07/18/22	20:26	BP	467655
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		07/18/22	20:26	BP	467655
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		07/18/22	20:26	BP	467655
Benzene	ETO15	30.00	13	48	ND	ND		07/18/22	20:26	BP	467655
TAME	ETO15	30.00	20	63	ND	ND		07/18/22	20:26	BP	467655
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		07/18/22	20:26	BP	467655
Trichloroethylene	ETO15	30.00	24	81	3800	707.64		07/18/22	20:26	BP	467655
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		07/18/22	20:26	BP	467655
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		07/18/22	20:26	BP	467655
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		07/18/22	20:26	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-7 @ 6'	**Lab Sample ID:**	2207125-010A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 15:32	**Certified Clean WO # :**	
Canister/Tube ID:	R3554	**Received PSI :**	11.4
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		07/18/22	20:26	BP	467655
Toluene	ETO15	30.00	23	57	ND	ND		07/18/22	20:26	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		07/18/22	20:26	BP	467655
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		07/18/22	20:26	BP	467655
Tetrachloroethylene	ETO15	30.00	44	100	4400	648.97		07/18/22	20:26	BP	467655
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		07/18/22	20:26	BP	467655
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		07/18/22	20:26	BP	467655
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		07/18/22	20:26	BP	467655
2-Hexanone	ETO15	30.00	20	62	ND	ND		07/18/22	20:26	BP	467655
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		07/18/22	20:26	BP	467655
Chlorobenzene	ETO15	30.00	18	69	ND	ND		07/18/22	20:26	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		07/18/22	20:26	BP	467655
m,p-Xylene	ETO15	30.00	29	65	ND	ND		07/18/22	20:26	BP	467655
o-Xylene	ETO15	30.00	9.1	65	ND	ND		07/18/22	20:26	BP	467655
Styrene	ETO15	30.00	14	64	ND	ND		07/18/22	20:26	BP	467655
Bromoform	ETO15	30.00	39	160	ND	ND		07/18/22	20:26	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		07/18/22	20:26	BP	467655
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		07/18/22	20:26	BP	467655
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		07/18/22	20:26	BP	467655
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		07/18/22	20:26	BP	467655
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		07/18/22	20:26	BP	467655
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		07/18/22	20:26	BP	467655
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		07/18/22	20:26	BP	467655
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		07/18/22	20:26	BP	467655
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		07/18/22	20:26	BP	467655
Naphthalene	ETO15	30.00	38	79	ND	ND		07/18/22	20:26	BP	467655
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	93 %			07/18/22	20:26	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-7 @ 10'	**Lab Sample ID:**	2207125-011A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 15:24	**Certified Clean WO # :**	
Canister/Tube ID:	A12261	**Received PSI :**	12.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22 12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		07/18/22	20:51	BP	467655
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		07/18/22	20:51	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		07/18/22	20:51	BP	467655
Chloromethane	ETO15	30.00	61	120	ND	ND		07/18/22	20:51	BP	467655
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		07/18/22	20:51	BP	467655
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		07/18/22	20:51	BP	467655
Bromomethane	ETO15	30.00	20	58	ND	ND		07/18/22	20:51	BP	467655
Chloroethane	ETO15	30.00	24	40	ND	ND		07/18/22	20:51	BP	467655
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		07/18/22	20:51	BP	467655
1,1-Dichloroethene	ETO15	30.00	25	60	220	55.42		07/18/22	20:51	BP	467655
Freon 113	ETO15	30.00	31	110	ND	ND		07/18/22	20:51	BP	467655
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		07/18/22	20:51	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		07/18/22	20:51	BP	467655
Methylene Chloride	ETO15	30.00	21	310	ND	ND		07/18/22	20:51	BP	467655
Acetone	ETO15	30.00	12	360	500	210.08		07/18/22	20:51	BP	467655
trans-1,2-Dichloroethene	ETO15	30.00	14	59	1300	328.28		07/18/22	20:51	BP	467655
Hexane	ETO15	30.00	14	53	110	31.25		07/18/22	20:51	BP	467655
MTBE	ETO15	30.00	13	54	ND	ND		07/18/22	20:51	BP	467655
tert-Butanol	ETO15	30.00	19	45	ND	ND		07/18/22	20:51	BP	467655
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		07/18/22	20:51	BP	467655
1,1-Dichloroethane	ETO15	30.00	16	61	1000	246.91		07/18/22	20:51	BP	467655
ETBE	ETO15	30.00	9.8	63	ND	ND		07/18/22	20:51	BP	467655
Chloroform	ETO15	30.00	29	73	ND	ND		07/18/22	20:51	BP	467655
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		07/18/22	20:51	BP	467655
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		07/18/22	20:51	BP	467655
1,1,1-Trichloroethane	ETO15	30.00	24	82	ND	ND		07/18/22	20:51	BP	467655
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		07/18/22	20:51	BP	467655
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		07/18/22	20:51	BP	467655
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		07/18/22	20:51	BP	467655
Benzene	ETO15	30.00	13	48	ND	ND		07/18/22	20:51	BP	467655
TAME	ETO15	30.00	20	63	ND	ND		07/18/22	20:51	BP	467655
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		07/18/22	20:51	BP	467655
Trichloroethylene	ETO15	30.00	24	81	4900	912.48		07/18/22	20:51	BP	467655
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		07/18/22	20:51	BP	467655
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		07/18/22	20:51	BP	467655
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		07/18/22	20:51	BP	467655
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		07/18/22	20:51	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-7 @ 10'	**Lab Sample ID:**	2207125-011A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 15:24	**Certified Clean WO # :**	
Canister/Tube ID:	A12261	**Received PSI :**	12.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method: TO15-P **Prep Batch Date/Time:** 7/18/22 12:00:00PM
Prep Batch ID: 1143357 **Prep Analyst:** BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Toluene	ETO15	30.00	23	57	ND	ND		07/18/22	20:51	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		07/18/22	20:51	BP	467655
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		07/18/22	20:51	BP	467655
Tetrachloroethylene	ETO15	30.00	44	100	840	123.89		07/18/22	20:51	BP	467655
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		07/18/22	20:51	BP	467655
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		07/18/22	20:51	BP	467655
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		07/18/22	20:51	BP	467655
2-Hexanone	ETO15	30.00	20	62	ND	ND		07/18/22	20:51	BP	467655
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		07/18/22	20:51	BP	467655
Chlorobenzene	ETO15	30.00	18	69	ND	ND		07/18/22	20:51	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		07/18/22	20:51	BP	467655
m,p-Xylene	ETO15	30.00	29	65	ND	ND		07/18/22	20:51	BP	467655
o-Xylene	ETO15	30.00	9.1	65	ND	ND		07/18/22	20:51	BP	467655
Styrene	ETO15	30.00	14	64	ND	ND		07/18/22	20:51	BP	467655
Bromoform	ETO15	30.00	39	160	ND	ND		07/18/22	20:51	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		07/18/22	20:51	BP	467655
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		07/18/22	20:51	BP	467655
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		07/18/22	20:51	BP	467655
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		07/18/22	20:51	BP	467655
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		07/18/22	20:51	BP	467655
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		07/18/22	20:51	BP	467655
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		07/18/22	20:51	BP	467655
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		07/18/22	20:51	BP	467655
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		07/18/22	20:51	BP	467655
Naphthalene	ETO15	30.00	38	79	ND	ND		07/18/22	20:51	BP	467655
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	100 %			07/18/22	20:51	BP	467655

Prep Method: TO15-P **Prep Batch Date/Time:** 7/18/22 12:00:00PM
Prep Batch ID: 1143357 **Prep Analyst:** BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
cis-1,2-Dichloroethene	ETO15	60.00	50	120	8200	2,070.71		07/19/22	0:08	BP	467655
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	91 %			07/19/22	0:08	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-8	**Lab Sample ID:**	2207125-012A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 15:57	**Certified Clean WO # :**	
Canister/Tube ID:	R3585	**Received PSI :**	4.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	3.00	4.7	7.4	ND	ND		07/19/22	10:13	BP	467655
1,1-Difluoroethane	ETO15	3.00	1.0	41	ND	ND		07/19/22	10:13	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	3.00	4.2	10	ND	ND		07/19/22	10:13	BP	467655
Chloromethane	ETO15	3.00	6.1	12	ND	ND		07/19/22	10:13	BP	467655
Vinyl Chloride	ETO15	3.00	0.68	3.8	ND	ND		07/19/22	10:13	BP	467655
1,3-Butadiene	ETO15	3.00	1.0	3.3	ND	ND		07/19/22	10:13	BP	467655
Bromomethane	ETO15	3.00	2.0	5.8	ND	ND		07/19/22	10:13	BP	467655
Chloroethane	ETO15	3.00	2.4	4.0	ND	ND		07/19/22	10:13	BP	467655
Trichlorofluoromethane	ETO15	3.00	1.7	8.4	ND	ND		07/19/22	10:13	BP	467655
1,1-Dichloroethene	ETO15	3.00	2.5	6.0	ND	ND		07/19/22	10:13	BP	467655
Freon 113	ETO15	3.00	3.1	11	ND	ND		07/19/22	10:13	BP	467655
Carbon Disulfide	ETO15	3.00	1.1	4.7	ND	ND		07/19/22	10:13	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	3.00	3.8	37	ND	ND		07/19/22	10:13	BP	467655
Methylene Chloride	ETO15	3.00	2.1	31	ND	ND		07/19/22	10:13	BP	467655
Acetone	ETO15	3.00	1.2	36	ND	ND		07/19/22	10:13	BP	467655
trans-1,2-Dichloroethene	ETO15	3.00	1.4	5.9	ND	ND		07/19/22	10:13	BP	467655
Hexane	ETO15	3.00	1.4	5.3	ND	ND		07/19/22	10:13	BP	467655
MTBE	ETO15	3.00	1.3	5.4	ND	ND		07/19/22	10:13	BP	467655
tert-Butanol	ETO15	3.00	1.9	4.5	ND	ND		07/19/22	10:13	BP	467655
Diisopropyl ether (DIPE)	ETO15	3.00	2.2	6.3	ND	ND		07/19/22	10:13	BP	467655
1,1-Dichloroethane	ETO15	3.00	1.6	6.1	ND	ND		07/19/22	10:13	BP	467655
ETBE	ETO15	3.00	0.98	6.3	ND	ND		07/19/22	10:13	BP	467655
cis-1,2-Dichloroethene	ETO15	3.00	2.5	5.9	ND	ND		07/19/22	10:13	BP	467655
Chloroform	ETO15	3.00	2.9	7.3	ND	ND		07/19/22	10:13	BP	467655
Vinyl Acetate	ETO15	3.00	2.3	5.3	ND	ND		07/19/22	10:13	BP	467655
Carbon Tetrachloride	ETO15	3.00	3.3	9.4	ND	ND		07/19/22	10:13	BP	467655
1,1,1-Trichloroethane	ETO15	3.00	2.4	8.2	12	2.20		07/19/22	10:13	BP	467655
2-Butanone (MEK)	ETO15	3.00	1.2	4.4	ND	ND		07/19/22	10:13	BP	467655
Ethyl Acetate	ETO15	3.00	1.4	5.4	ND	ND		07/19/22	10:13	BP	467655
Tetrahydrofuran	ETO15	3.00	1.3	4.4	ND	ND		07/19/22	10:13	BP	467655
Benzene	ETO15	3.00	1.3	4.8	ND	ND		07/19/22	10:13	BP	467655
TAME	ETO15	3.00	2.0	6.3	ND	ND		07/19/22	10:13	BP	467655
1,2-Dichloroethane (EDC)	ETO15	3.00	1.3	6.1	ND	ND		07/19/22	10:13	BP	467655
Trichloroethylene	ETO15	3.00	2.4	8.1	ND	ND		07/19/22	10:13	BP	467655
1,2-Dichloropropane	ETO15	3.00	2.3	6.9	ND	ND		07/19/22	10:13	BP	467655
Bromodichloromethane	ETO15	3.00	2.2	10	ND	ND		07/19/22	10:13	BP	467655
1,4-Dioxane	ETO15	3.00	5.4	11	ND	ND		07/19/22	10:13	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-8	**Lab Sample ID:**	2207125-012A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 15:57	**Certified Clean WO # :**	
Canister/Tube ID:	R3585	**Received PSI :**	4.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	3.00	3.2	6.8	ND	ND		07/19/22	10:13	BP	467655
Toluene	ETO15	3.00	2.3	5.7	ND	ND		07/19/22	10:13	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	3.00	2.2	6.2	ND	ND		07/19/22	10:13	BP	467655
cis-1,3-Dichloropropene	ETO15	3.00	1.3	6.8	ND	ND		07/19/22	10:13	BP	467655
Tetrachloroethylene	ETO15	3.00	4.4	10	16	2.36		07/19/22	10:13	BP	467655
1,1,2-Trichloroethane	ETO15	3.00	1.8	8.2	ND	ND		07/19/22	10:13	BP	467655
Dibromochloromethane	ETO15	3.00	3.3	13	ND	ND		07/19/22	10:13	BP	467655
1,2-Dibromoethane (EDB)	ETO15	3.00	2.2	12	ND	ND		07/19/22	10:13	BP	467655
2-Hexanone	ETO15	3.00	2.0	6.2	ND	ND		07/19/22	10:13	BP	467655
Ethyl Benzene	ETO15	3.00	1.9	6.5	ND	ND		07/19/22	10:13	BP	467655
Chlorobenzene	ETO15	3.00	1.8	6.9	ND	ND		07/19/22	10:13	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	3.00	2.5	10	ND	ND		07/19/22	10:13	BP	467655
m,p-Xylene	ETO15	3.00	2.9	6.5	ND	ND		07/19/22	10:13	BP	467655
o-Xylene	ETO15	3.00	0.91	6.5	ND	ND		07/19/22	10:13	BP	467655
Styrene	ETO15	3.00	1.4	6.4	ND	ND		07/19/22	10:13	BP	467655
Bromoform	ETO15	3.00	3.9	16	ND	ND		07/19/22	10:13	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	3.00	2.5	10	ND	ND		07/19/22	10:13	BP	467655
4-Ethyl Toluene	ETO15	3.00	1.6	7.4	ND	ND		07/19/22	10:13	BP	467655
1,3,5-Trimethylbenzene	ETO15	3.00	0.90	7.4	ND	ND		07/19/22	10:13	BP	467655
1,2,4-Trimethylbenzene	ETO15	3.00	1.8	7.4	ND	ND		07/19/22	10:13	BP	467655
1,4-Dichlorobenzene	ETO15	3.00	2.2	9.0	ND	ND		07/19/22	10:13	BP	467655
1,3-Dichlorobenzene	ETO15	3.00	4.0	9.0	ND	ND		07/19/22	10:13	BP	467655
1,2-Dichlorobenzene	ETO15	3.00	3.2	9.0	ND	ND		07/19/22	10:13	BP	467655
Hexachlorobutadiene	ETO15	3.00	5.6	16	ND	ND		07/19/22	10:13	BP	467655
1,2,4-Trichlorobenzene	ETO15	3.00	6.5	11	ND	ND		07/19/22	10:13	BP	467655
Naphthalene	ETO15	3.00	3.8	7.9	ND	ND		07/19/22	10:13	BP	467655
(S) 4-Bromofluorobenzene	ETO15	3.00	50	150	100 %			07/19/22	10:13	BP	467655

NOTE: Low canister pressure.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-9	**Lab Sample ID:**	2207125-013A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:28	**Certified Clean WO # :**	
Canister/Tube ID:	A12200	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22 12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		07/18/22	22:16	BP	467655
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		07/18/22	22:16	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		07/18/22	22:16	BP	467655
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		07/18/22	22:16	BP	467655
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		07/18/22	22:16	BP	467655
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		07/18/22	22:16	BP	467655
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		07/18/22	22:16	BP	467655
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		07/18/22	22:16	BP	467655
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		07/18/22	22:16	BP	467655
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		07/18/22	22:16	BP	467655
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		07/18/22	22:16	BP	467655
Carbon Disulfide	ETO15	1.00	0.37	1.6	3.9	1.25		07/18/22	22:16	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	18	7.32		07/18/22	22:16	BP	467655
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		07/18/22	22:16	BP	467655
Acetone	ETO15	1.00	0.40	12	110	46.22		07/18/22	22:16	BP	467655
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		07/18/22	22:16	BP	467655
Hexane	ETO15	1.00	0.46	1.8	ND	ND		07/18/22	22:16	BP	467655
MTBE	ETO15	1.00	0.44	1.8	ND	ND		07/18/22	22:16	BP	467655
tert-Butanol	ETO15	1.00	0.62	1.5	ND	ND		07/18/22	22:16	BP	467655
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		07/18/22	22:16	BP	467655
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		07/18/22	22:16	BP	467655
ETBE	ETO15	1.00	0.33	2.1	ND	ND		07/18/22	22:16	BP	467655
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		07/18/22	22:16	BP	467655
Chloroform	ETO15	1.00	0.97	2.4	9.1	1.86		07/18/22	22:16	BP	467655
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		07/18/22	22:16	BP	467655
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		07/18/22	22:16	BP	467655
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	23	4.21		07/18/22	22:16	BP	467655
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	7.8	2.64		07/18/22	22:16	BP	467655
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		07/18/22	22:16	BP	467655
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		07/18/22	22:16	BP	467655
Benzene	ETO15	1.00	0.44	1.6	ND	ND		07/18/22	22:16	BP	467655
TAME	ETO15	1.00	0.67	2.1	ND	ND		07/18/22	22:16	BP	467655
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		07/18/22	22:16	BP	467655
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		07/18/22	22:16	BP	467655
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		07/18/22	22:16	BP	467655
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		07/18/22	22:16	BP	467655
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		07/18/22	22:16	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-9	**Lab Sample ID:**	2207125-013A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:28	**Certified Clean WO # :**	
Canister/Tube ID:	A12200	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		07/18/22	22:16	BP	467655
Toluene	ETO15	1.00	0.75	1.9	ND	ND		07/18/22	22:16	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		07/18/22	22:16	BP	467655
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		07/18/22	22:16	BP	467655
Tetrachloroethylene	ETO15	1.00	1.5	3.4	46	6.78		07/18/22	22:16	BP	467655
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		07/18/22	22:16	BP	467655
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		07/18/22	22:16	BP	467655
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		07/18/22	22:16	BP	467655
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		07/18/22	22:16	BP	467655
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		07/18/22	22:16	BP	467655
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		07/18/22	22:16	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		07/18/22	22:16	BP	467655
m,p-Xylene	ETO15	1.00	0.98	2.2	ND	ND		07/18/22	22:16	BP	467655
o-Xylene	ETO15	1.00	0.30	2.2	ND	ND		07/18/22	22:16	BP	467655
Styrene	ETO15	1.00	0.46	2.1	ND	ND		07/18/22	22:16	BP	467655
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		07/18/22	22:16	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		07/18/22	22:16	BP	467655
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		07/18/22	22:16	BP	467655
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		07/18/22	22:16	BP	467655
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		07/18/22	22:16	BP	467655
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		07/18/22	22:16	BP	467655
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		07/18/22	22:16	BP	467655
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		07/18/22	22:16	BP	467655
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		07/18/22	22:16	BP	467655
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		07/18/22	22:16	BP	467655
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		07/18/22	22:16	BP	467655
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	90 %			07/18/22	22:16	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-11	**Lab Sample ID:**	2207125-014A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 13:10	**Certified Clean WO # :**	
Canister/Tube ID:	N1430	**Received PSI :**	13.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22 12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	3.00	4.7	7.4	ND	ND		07/18/22	22:41	BP	467655
1,1-Difluoroethane	ETO15	3.00	1.0	41	ND	ND		07/18/22	22:41	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	3.00	4.2	10	ND	ND		07/18/22	22:41	BP	467655
Chloromethane	ETO15	3.00	6.1	12	ND	ND		07/18/22	22:41	BP	467655
Vinyl Chloride	ETO15	3.00	0.68	3.8	ND	ND		07/18/22	22:41	BP	467655
1,3-Butadiene	ETO15	3.00	1.0	3.3	ND	ND		07/18/22	22:41	BP	467655
Bromomethane	ETO15	3.00	2.0	5.8	ND	ND		07/18/22	22:41	BP	467655
Chloroethane	ETO15	3.00	2.4	4.0	ND	ND		07/18/22	22:41	BP	467655
Trichlorofluoromethane	ETO15	3.00	1.7	8.4	ND	ND		07/18/22	22:41	BP	467655
1,1-Dichloroethene	ETO15	3.00	2.5	6.0	ND	ND		07/18/22	22:41	BP	467655
Freon 113	ETO15	3.00	3.1	11	ND	ND		07/18/22	22:41	BP	467655
Carbon Disulfide	ETO15	3.00	1.1	4.7	ND	ND		07/18/22	22:41	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	3.00	3.8	37	ND	ND		07/18/22	22:41	BP	467655
Methylene Chloride	ETO15	3.00	2.1	31	ND	ND		07/18/22	22:41	BP	467655
Acetone	ETO15	3.00	1.2	36	ND	ND		07/18/22	22:41	BP	467655
trans-1,2-Dichloroethene	ETO15	3.00	1.4	5.9	ND	ND		07/18/22	22:41	BP	467655
Hexane	ETO15	3.00	1.4	5.3	ND	ND		07/18/22	22:41	BP	467655
MTBE	ETO15	3.00	1.3	5.4	ND	ND		07/18/22	22:41	BP	467655
tert-Butanol	ETO15	3.00	1.9	4.5	ND	ND		07/18/22	22:41	BP	467655
Diisopropyl ether (DIPE)	ETO15	3.00	2.2	6.3	ND	ND		07/18/22	22:41	BP	467655
1,1-Dichloroethane	ETO15	3.00	1.6	6.1	ND	ND		07/18/22	22:41	BP	467655
ETBE	ETO15	3.00	0.98	6.3	ND	ND		07/18/22	22:41	BP	467655
cis-1,2-Dichloroethene	ETO15	3.00	2.5	5.9	ND	ND		07/18/22	22:41	BP	467655
Chloroform	ETO15	3.00	2.9	7.3	ND	ND		07/18/22	22:41	BP	467655
Vinyl Acetate	ETO15	3.00	2.3	5.3	ND	ND		07/18/22	22:41	BP	467655
Carbon Tetrachloride	ETO15	3.00	3.3	9.4	ND	ND		07/18/22	22:41	BP	467655
1,1,1-Trichloroethane	ETO15	3.00	2.4	8.2	28	5.13		07/18/22	22:41	BP	467655
2-Butanone (MEK)	ETO15	3.00	1.2	4.4	ND	ND		07/18/22	22:41	BP	467655
Ethyl Acetate	ETO15	3.00	1.4	5.4	ND	ND		07/18/22	22:41	BP	467655
Tetrahydrofuran	ETO15	3.00	1.3	4.4	ND	ND		07/18/22	22:41	BP	467655
Benzene	ETO15	3.00	1.3	4.8	ND	ND		07/18/22	22:41	BP	467655
TAME	ETO15	3.00	2.0	6.3	ND	ND		07/18/22	22:41	BP	467655
1,2-Dichloroethane (EDC)	ETO15	3.00	1.3	6.1	ND	ND		07/18/22	22:41	BP	467655
Trichloroethylene	ETO15	3.00	2.4	8.1	13	2.42		07/18/22	22:41	BP	467655
1,2-Dichloropropane	ETO15	3.00	2.3	6.9	ND	ND		07/18/22	22:41	BP	467655
Bromodichloromethane	ETO15	3.00	2.2	10	ND	ND		07/18/22	22:41	BP	467655
1,4-Dioxane	ETO15	3.00	5.4	11	ND	ND		07/18/22	22:41	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-11	**Lab Sample ID:**	2207125-014A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 13:10	**Certified Clean WO # :**	
Canister/Tube ID:	N1430	**Received PSI :**	13.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method: TO15-P **Prep Batch Date/Time:** 7/18/22 12:00:00PM
Prep Batch ID: 1143357 **Prep Analyst:** BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	3.00	3.2	6.8	ND	ND		07/18/22	22:41	BP	467655
Toluene	ETO15	3.00	2.3	5.7	ND	ND		07/18/22	22:41	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	3.00	2.2	6.2	ND	ND		07/18/22	22:41	BP	467655
cis-1,3-Dichloropropene	ETO15	3.00	1.3	6.8	ND	ND		07/18/22	22:41	BP	467655
1,1,2-Trichloroethane	ETO15	3.00	1.8	8.2	ND	ND		07/18/22	22:41	BP	467655
Dibromochloromethane	ETO15	3.00	3.3	13	ND	ND		07/18/22	22:41	BP	467655
1,2-Dibromoethane (EDB)	ETO15	3.00	2.2	12	ND	ND		07/18/22	22:41	BP	467655
2-Hexanone	ETO15	3.00	2.0	6.2	ND	ND		07/18/22	22:41	BP	467655
Ethyl Benzene	ETO15	3.00	1.9	6.5	ND	ND		07/18/22	22:41	BP	467655
Chlorobenzene	ETO15	3.00	1.8	6.9	ND	ND		07/18/22	22:41	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	3.00	2.5	10	ND	ND		07/18/22	22:41	BP	467655
m,p-Xylene	ETO15	3.00	2.9	6.5	ND	ND		07/18/22	22:41	BP	467655
o-Xylene	ETO15	3.00	0.91	6.5	ND	ND		07/18/22	22:41	BP	467655
Styrene	ETO15	3.00	1.4	6.4	ND	ND		07/18/22	22:41	BP	467655
Bromoform	ETO15	3.00	3.9	16	ND	ND		07/18/22	22:41	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	3.00	2.5	10	ND	ND		07/18/22	22:41	BP	467655
4-Ethyl Toluene	ETO15	3.00	1.6	7.4	ND	ND		07/18/22	22:41	BP	467655
1,3,5-Trimethylbenzene	ETO15	3.00	0.90	7.4	ND	ND		07/18/22	22:41	BP	467655
1,2,4-Trimethylbenzene	ETO15	3.00	1.8	7.4	ND	ND		07/18/22	22:41	BP	467655
1,4-Dichlorobenzene	ETO15	3.00	2.2	9.0	ND	ND		07/18/22	22:41	BP	467655
1,3-Dichlorobenzene	ETO15	3.00	4.0	9.0	ND	ND		07/18/22	22:41	BP	467655
1,2-Dichlorobenzene	ETO15	3.00	3.2	9.0	ND	ND		07/18/22	22:41	BP	467655
Hexachlorobutadiene	ETO15	3.00	5.6	16	ND	ND		07/18/22	22:41	BP	467655
1,2,4-Trichlorobenzene	ETO15	3.00	6.5	11	ND	ND		07/18/22	22:41	BP	467655
Naphthalene	ETO15	3.00	3.8	7.9	ND	ND		07/18/22	22:41	BP	467655
(S) 4-Bromofluorobenzene	ETO15	3.00	50	150	90 %			07/18/22	22:41	BP	467655

Prep Method: TO15-P **Prep Batch Date/Time:** 7/18/22 12:00:00PM
Prep Batch ID: 1143357 **Prep Analyst:** BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Tetrachloroethylene	ETO15	6.00	8.7	20	950	140.12		07/19/22	8:13	BP	467655
(S) 4-Bromofluorobenzene	ETO15	6.00	50	150	94 %			07/19/22	8:13	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-12	**Lab Sample ID:**	2207125-015A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 13:55	**Certified Clean WO # :**	
Canister/Tube ID:	N3947	**Received PSI :**	13.0
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		07/18/22	23:09	BP	467655
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		07/18/22	23:09	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		07/18/22	23:09	BP	467655
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		07/18/22	23:09	BP	467655
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		07/18/22	23:09	BP	467655
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		07/18/22	23:09	BP	467655
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		07/18/22	23:09	BP	467655
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		07/18/22	23:09	BP	467655
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		07/18/22	23:09	BP	467655
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		07/18/22	23:09	BP	467655
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		07/18/22	23:09	BP	467655
Carbon Disulfide	ETO15	1.00	0.37	1.6	3.0	0.96		07/18/22	23:09	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		07/18/22	23:09	BP	467655
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		07/18/22	23:09	BP	467655
Acetone	ETO15	1.00	0.40	12	29	12.18		07/18/22	23:09	BP	467655
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		07/18/22	23:09	BP	467655
Hexane	ETO15	1.00	0.46	1.8	ND	ND		07/18/22	23:09	BP	467655
MTBE	ETO15	1.00	0.44	1.8	ND	ND		07/18/22	23:09	BP	467655
tert-Butanol	ETO15	1.00	0.62	1.5	ND	ND		07/18/22	23:09	BP	467655
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		07/18/22	23:09	BP	467655
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		07/18/22	23:09	BP	467655
ETBE	ETO15	1.00	0.33	2.1	ND	ND		07/18/22	23:09	BP	467655
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		07/18/22	23:09	BP	467655
Chloroform	ETO15	1.00	0.97	2.4	6.8	1.39		07/18/22	23:09	BP	467655
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		07/18/22	23:09	BP	467655
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		07/18/22	23:09	BP	467655
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	6.1	1.12		07/18/22	23:09	BP	467655
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	4.9	1.66		07/18/22	23:09	BP	467655
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		07/18/22	23:09	BP	467655
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		07/18/22	23:09	BP	467655
Benzene	ETO15	1.00	0.44	1.6	ND	ND		07/18/22	23:09	BP	467655
TAME	ETO15	1.00	0.67	2.1	ND	ND		07/18/22	23:09	BP	467655
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		07/18/22	23:09	BP	467655
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		07/18/22	23:09	BP	467655
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		07/18/22	23:09	BP	467655
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		07/18/22	23:09	BP	467655
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		07/18/22	23:09	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-12	**Lab Sample ID:**	2207125-015A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 13:55	**Certified Clean WO # :**	
Canister/Tube ID:	N3947	**Received PSI :**	13.0
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		07/18/22	23:09	BP	467655
Toluene	ETO15	1.00	0.75	1.9	ND	ND		07/18/22	23:09	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		07/18/22	23:09	BP	467655
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		07/18/22	23:09	BP	467655
Tetrachloroethylene	ETO15	1.00	1.5	3.4	67	9.88		07/18/22	23:09	BP	467655
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		07/18/22	23:09	BP	467655
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		07/18/22	23:09	BP	467655
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		07/18/22	23:09	BP	467655
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		07/18/22	23:09	BP	467655
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		07/18/22	23:09	BP	467655
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		07/18/22	23:09	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		07/18/22	23:09	BP	467655
m,p-Xylene	ETO15	1.00	0.98	2.2	ND	ND		07/18/22	23:09	BP	467655
o-Xylene	ETO15	1.00	0.30	2.2	ND	ND		07/18/22	23:09	BP	467655
Styrene	ETO15	1.00	0.46	2.1	ND	ND		07/18/22	23:09	BP	467655
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		07/18/22	23:09	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		07/18/22	23:09	BP	467655
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		07/18/22	23:09	BP	467655
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		07/18/22	23:09	BP	467655
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		07/18/22	23:09	BP	467655
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		07/18/22	23:09	BP	467655
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		07/18/22	23:09	BP	467655
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		07/18/22	23:09	BP	467655
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	6.8	0.64		07/18/22	23:09	BP	467655
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		07/18/22	23:09	BP	467655
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		07/18/22	23:09	BP	467655
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	94 %			07/18/22	23:09	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-13	**Lab Sample ID:**	2207125-016A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 14:10	**Certified Clean WO # :**	
Canister/Tube ID:	A12193	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22 12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		07/18/22	23:43	BP	467655
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		07/18/22	23:43	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		07/18/22	23:43	BP	467655
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		07/18/22	23:43	BP	467655
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		07/18/22	23:43	BP	467655
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		07/18/22	23:43	BP	467655
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		07/18/22	23:43	BP	467655
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		07/18/22	23:43	BP	467655
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		07/18/22	23:43	BP	467655
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		07/18/22	23:43	BP	467655
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		07/18/22	23:43	BP	467655
Carbon Disulfide	ETO15	1.00	0.37	1.6	1.6	0.51		07/18/22	23:43	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		07/18/22	23:43	BP	467655
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		07/18/22	23:43	BP	467655
Acetone	ETO15	1.00	0.40	12	54	22.69		07/18/22	23:43	BP	467655
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		07/18/22	23:43	BP	467655
Hexane	ETO15	1.00	0.46	1.8	ND	ND		07/18/22	23:43	BP	467655
MTBE	ETO15	1.00	0.44	1.8	ND	ND		07/18/22	23:43	BP	467655
tert-Butanol	ETO15	1.00	0.62	1.5	ND	ND		07/18/22	23:43	BP	467655
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		07/18/22	23:43	BP	467655
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	2.3	0.57		07/18/22	23:43	BP	467655
ETBE	ETO15	1.00	0.33	2.1	ND	ND		07/18/22	23:43	BP	467655
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		07/18/22	23:43	BP	467655
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		07/18/22	23:43	BP	467655
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		07/18/22	23:43	BP	467655
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		07/18/22	23:43	BP	467655
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		07/18/22	23:43	BP	467655
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	4.9	1.66		07/18/22	23:43	BP	467655
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		07/18/22	23:43	BP	467655
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		07/18/22	23:43	BP	467655
Benzene	ETO15	1.00	0.44	1.6	ND	ND		07/18/22	23:43	BP	467655
TAME	ETO15	1.00	0.67	2.1	ND	ND		07/18/22	23:43	BP	467655
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		07/18/22	23:43	BP	467655
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		07/18/22	23:43	BP	467655
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		07/18/22	23:43	BP	467655
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		07/18/22	23:43	BP	467655
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		07/18/22	23:43	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-13	**Lab Sample ID:**	2207125-016A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 14:10	**Certified Clean WO # :**	
Canister/Tube ID:	A12193	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		07/18/22	23:43	BP	467655
Toluene	ETO15	1.00	0.75	1.9	ND	ND		07/18/22	23:43	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		07/18/22	23:43	BP	467655
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		07/18/22	23:43	BP	467655
Tetrachloroethylene	ETO15	1.00	1.5	3.4	55	8.11		07/18/22	23:43	BP	467655
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		07/18/22	23:43	BP	467655
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		07/18/22	23:43	BP	467655
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		07/18/22	23:43	BP	467655
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		07/18/22	23:43	BP	467655
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		07/18/22	23:43	BP	467655
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		07/18/22	23:43	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		07/18/22	23:43	BP	467655
m,p-Xylene	ETO15	1.00	0.98	2.2	ND	ND		07/18/22	23:43	BP	467655
o-Xylene	ETO15	1.00	0.30	2.2	ND	ND		07/18/22	23:43	BP	467655
Styrene	ETO15	1.00	0.46	2.1	ND	ND		07/18/22	23:43	BP	467655
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		07/18/22	23:43	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		07/18/22	23:43	BP	467655
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		07/18/22	23:43	BP	467655
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		07/18/22	23:43	BP	467655
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		07/18/22	23:43	BP	467655
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		07/18/22	23:43	BP	467655
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		07/18/22	23:43	BP	467655
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		07/18/22	23:43	BP	467655
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		07/18/22	23:43	BP	467655
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		07/18/22	23:43	BP	467655
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		07/18/22	23:43	BP	467655
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	95 %			07/18/22	23:43	BP	467655

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2207125	**Prep Method:**	TO15-P	**Prep Date:**	07/18/22	**Prep Batch:**	1143357
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	7/18/2022	**Analytical Batch:**	467655
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.32	0.50	ND	
1,1-Difluoroethane	0.13	5.0	ND	
1,2-Dichlorotetrafluoroethane	0.20	0.50	ND	
Chloromethane	0.99	2.0	ND	
Vinyl Chloride	0.088	0.50	ND	
1,3-Butadiene	0.15	0.50	ND	
Bromomethane	0.17	0.50	ND	
Chloroethane	0.31	0.50	ND	
Trichlorofluoromethane	0.099	0.50	ND	
1,1-Dichloroethene	0.21	0.50	ND	
Freon 113	0.13	0.50	ND	
Carbon Disulfide	0.12	0.50	ND	
2-Propanol (Isopropyl Alcohol)	0.52	5.0	ND	
Methylene Chloride	0.20	3.0	ND	
Acetone	0.17	5.0	ND	
trans-1,2-Dichloroethene	0.12	0.50	ND	
Hexane	0.13	0.50	ND	
MTBE	0.12	0.50	ND	
tert-Butanol	0.20	0.50	ND	
Diisopropyl ether (DIPE)	0.18	0.50	ND	
1,1-Dichloroethane	0.13	0.50	ND	
ETBE	0.078	0.50	ND	
cis-1,2-Dichloroethene	0.21	0.50	ND	
Chloroform	0.20	0.50	ND	
Vinyl Acetate	0.22	0.50	ND	
Carbon Tetrachloride	0.18	0.50	ND	
1,1,1-Trichloroethane	0.15	0.50	ND	
2-Butanone (MEK)	0.13	0.50	ND	
Ethyl Acetate	0.13	0.50	ND	
Tetrahydrofuran	0.15	0.50	ND	
Benzene	0.14	0.50	ND	
TAME	0.16	0.50	ND	
1,2-Dichloroethane (EDC)	0.10	0.50	ND	
Trichloroethylene	0.15	0.50	ND	
1,2-Dichloropropane	0.17	0.50	ND	
Bromodichloromethane	0.11	0.50	ND	
1,4-Dioxane	0.50	1.0	ND	
trans-1,3-Dichloropropene	0.23	0.50	ND	
Toluene	0.20	0.50	ND	
4-Methyl-2-Pentanone (MIBK)	0.18	0.50	ND	
cis-1,3-Dichloropropene	0.093	0.50	ND	
Tetrachloroethylene	0.22	0.50	ND	
1,1,2-Trichloroethane	0.11	0.50	ND	
Dibromochloromethane	0.13	0.50	ND	
1,2-Dibromoethane (EDB)	0.096	0.50	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2207125	**Prep Method:**	TO15-P	**Prep Date:**	07/18/22	**Prep Batch:**	1143357
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	7/18/2022	**Analytical Batch:**	467655
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
2-Hexanone	0.16	0.50	ND	
Ethyl Benzene	0.15	0.50	ND	
Chlorobenzene	0.13	0.50	ND	
1,1,1,2-Tetrachloroethane	0.12	0.50	ND	
m,p-Xylene	0.23	0.50	ND	
o-Xylene	0.070	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.13	0.50	ND	
1,1,2,2-Tetrachloroethane	0.12	0.50	ND	
4-Ethyl Toluene	0.11	0.50	ND	
1,3,5-Trimethylbenzene	0.061	0.50	ND	
1,2,4-Trimethylbenzene	0.12	0.50	ND	
1,4-Dichlorobenzene	0.12	0.50	ND	
1,3-Dichlorobenzene	0.22	0.50	ND	
1,2-Dichlorobenzene	0.18	0.50	ND	
Hexachlorobutadiene	0.17	0.50	ND	
1,2,4-Trichlorobenzene	0.29	0.50	ND	
Naphthalene	0.24	0.50	ND	
Cyclohexane	0.50	0.50	ND	
Benzyl Chloride	0.20	0.50	ND	
Heptane	0.13	0.50	ND	
(S) 4-Bromofluorobenzene			90	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2207125	**Prep Method:**	TO15-P	**Prep Date:**	07/21/22	**Prep Batch:**	1143417
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	7/21/2022	**Analytical Batch:**	467724
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.32	0.50	ND	
1,1-Difluoroethane	0.13	5.0	ND	
1,2-Dichlorotetrafluoroethane	0.20	0.50	ND	
Chloromethane	0.99	2.0	ND	
Vinyl Chloride	0.088	0.50	ND	
1,3-Butadiene	0.15	0.50	ND	
Bromomethane	0.17	0.50	ND	
Chloroethane	0.31	0.50	ND	
Trichlorofluoromethane	0.099	0.50	ND	
1,1-Dichloroethene	0.21	0.50	ND	
Freon 113	0.13	0.50	ND	
Carbon Disulfide	0.12	0.50	ND	
2-Propanol (Isopropyl Alcohol)	0.52	5.0	ND	
Methylene Chloride	0.20	3.0	ND	
Acetone	0.17	5.0	ND	
trans-1,2-Dichloroethene	0.12	0.50	ND	
Hexane	0.13	0.50	ND	
MTBE	0.12	0.50	ND	
tert-Butanol	0.20	0.50	ND	
Diisopropyl ether (DIPE)	0.18	0.50	ND	
1,1-Dichloroethane	0.13	0.50	ND	
ETBE	0.078	0.50	ND	
cis-1,2-Dichloroethene	0.21	0.50	ND	
Chloroform	0.20	0.50	ND	
Vinyl Acetate	0.22	0.50	ND	
Carbon Tetrachloride	0.18	0.50	ND	
1,1,1-Trichloroethane	0.15	0.50	ND	
2-Butanone (MEK)	0.13	0.50	ND	
Ethyl Acetate	0.13	0.50	ND	
Tetrahydrofuran	0.15	0.50	ND	
Benzene	0.14	0.50	ND	
TAME	0.16	0.50	ND	
1,2-Dichloroethane (EDC)	0.10	0.50	ND	
Trichloroethylene	0.15	0.50	ND	
1,2-Dichloropropane	0.17	0.50	ND	
Bromodichloromethane	0.11	0.50	ND	
1,4-Dioxane	0.50	1.0	ND	
trans-1,3-Dichloropropene	0.23	0.50	ND	
Toluene	0.20	0.50	ND	
4-Methyl-2-Pentanone (MIBK)	0.18	0.50	ND	
cis-1,3-Dichloropropene	0.093	0.50	ND	
Tetrachloroethylene	0.22	0.50	ND	
1,1,2-Trichloroethane	0.11	0.50	ND	
Dibromochloromethane	0.13	0.50	ND	
1,2-Dibromoethane (EDB)	0.096	0.50	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2207125	**Prep Method:**	TO15-P	**Prep Date:**	07/21/22	**Prep Batch:**	1143417
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	7/21/2022	**Analytical Batch:**	467724
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
2-Hexanone	0.16	0.50	ND	
Ethyl Benzene	0.15	0.50	ND	
Chlorobenzene	0.13	0.50	ND	
1,1,1,2-Tetrachloroethane	0.12	0.50	ND	
m,p-Xylene	0.23	0.50	ND	
o-Xylene	0.070	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.13	0.50	ND	
1,1,2,2-Tetrachloroethane	0.12	0.50	ND	
4-Ethyl Toluene	0.11	0.50	ND	
1,3,5-Trimethylbenzene	0.061	0.50	ND	
1,2,4-Trimethylbenzene	0.12	0.50	ND	
1,4-Dichlorobenzene	0.12	0.50	ND	
1,3-Dichlorobenzene	0.22	0.50	ND	
1,2-Dichlorobenzene	0.18	0.50	ND	
Hexachlorobutadiene	0.17	0.50	ND	
1,2,4-Trichlorobenzene	0.29	0.50	ND	
Naphthalene	0.24	0.50	ND	
Cyclohexane	0.50	0.50	ND	
Benzyl Chloride	0.20	0.50	ND	
Heptane	0.13	0.50	ND	
(S) 4-Bromofluorobenzene			87	

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2207125	**Prep Method:**	TO15-P	**Prep Date:**	07/18/22	**Prep Batch:**	1143357
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	7/18/2022	**Analytical Batch:**	467655
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.21	0.50	ND	8.00	107	105	1.42	65 - 135	30	
Benzene	0.14	0.50	ND	8.00	92.8	94.9	2.13	65 - 135	30	
Trichloroethylene	0.15	0.50	ND	8.00	108	108	0.347	65 - 135	30	
Toluene	0.20	0.50	ND	8.00	93.1	97.4	4.46	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	103	104	0.726	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	94.7	89.9		50 - 150		

Work Order:	2207125	**Prep Method:**	TO15-P	**Prep Date:**	07/21/22	**Prep Batch:**	1143417
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	7/21/2022	**Analytical Batch:**	467724
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.21	0.50	ND	8.00	104	97.1	7.20	65 - 135	30	
Benzene	0.14	0.50	ND	8.00	96.4	87.7	9.37	65 - 135	30	
Trichloroethylene	0.15	0.50	ND	8.00	108	101	6.46	65 - 135	30	
Toluene	0.20	0.50	ND	8.00	97.0	87.9	9.87	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	101	94.4	7.03	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	95.8	94.8		50 - 150		

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg/m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Project Name: Cedar Boulevard

Work Order No.: 2207125

Date and Time Received: 7/15/2022 5:37:00PM

Received By: Tammy

Physically Logged By: Lorna Imbat

Checklist Completed By: Lorna Imbat

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	Yes
Custody seals intact on sample bottles?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes
Container/Temp Blank temperature in compliance?	Temperature: °C
Water-VOA vials have zero headspace?	No VOA vials submitted
Water-pH acceptable upon receipt?	N/A
pH Checked by: n/a	pH Adjusted by: n/a

Comments:

COC NOT matching w/ sample ID: samle-005A ; SG-3 @15' vs COC SG-3 @ 10' SAME time sampled and canister # A12175 and COC NOT matching w/ sample ID: samle-007A ; SG-4 @15' vs COC SG-4 @ 10' SAME time sampled and canister # A12262

Torrent LABORATORY, INC.

Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Cedar Boulevard
Project # : 15799.004.000
Report Due Date: 7/22/2022

QC Level: II
TAT Requested: 5+ day:5
Date Received: 7/15/2022
Time Received: 5:37 pm

Comments:

Work Order # : ***2207125***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
2207125-001A	SG-1 @ 6'	07/15/22 13:00	Air				VOC_A_TO15	
Sample Note:	DFA leak check							
2207125-002A	SG-1 @ 10'	07/15/22 13:22	Air				VOC_A_TO15	
2207125-003A	SG-2 @ 6'	07/15/22 14:26	Air				VOC_A_TO15	
2207125-004A	SG-3 @ 6'	07/15/22 12:56	Air				VOC_A_TO15	
2207125-005A	SG-3 @ 10'	07/13/22 17:04	Air				VOC_A_TO15	
Sample Note:	depth listed on CoC (10') different than that on canister tag (15')							
2207125-006A	SG-4 @ 6'	07/13/22 16:36	Air				VOC_A_TO15	
2207125-007A	SG-4 @ 10'	07/13/22 17:07	Air				VOC_A_TO15	
Sample Note:	depth listed on CoC (10') different than that on canister tag (15')							
2207125-008A	SG-6 @ 6'	07/15/22 14:25	Air				VOC_A_TO15	
2207125-009A	SG-6 @ 10'	07/15/22 14:32	Air				VOC_A_TO15	
2207125-010A	SG-7 @ 6'	07/15/22 15:32	Air				VOC_A_TO15	
2207125-011A	SG-7 @ 10'	07/15/22 15:24	Air				VOC_A_TO15	
2207125-012A	SG-8	07/13/22 15:57	Air				VOC_A_TO15	
2207125-013A	SG-9	07/13/22 16:28	Air				VOC_A_TO15	
2207125-014A	SG-11	07/13/22 13:10	Air				VOC_A_TO15	
2207125-015A	SG-12	07/13/22 13:55	Air				VOC_A_TO15	
2207125-016A	SG-13	07/13/22 14:10	Air				VOC_A_TO15	

Torrent LABORATORY, INC.

2207125

CHAIN OF CUSTODY RECORD

PROJECT NUMBER: 15799.001.000
PROJECT NAME: CEDAR BOULEVARD
SAMPLED BY: (SIGNATURE/PRINT): JONNA KEITH
PROJECT MANAGER: (SIGNATURE/PRINT): MONICA KUNZEL
ROUTING: E-MAIL: mkunzel@engeo.com, jkeith@engeo.com HARD COPY

SAMPLE NUMBER	DATE	TIME	CANISTER #	FLOW REGULATOR ID	START TIME	START VACUUM	END TIME	END VACUUM	VOCs (TO-15)	~~FIXED GASES (ASTM D1946)~~	~~TPH(g) (EPA 25)~~	REMARKS / REQUIRED DETECTION LIMITS
SG-1 @6'	7/15/22	12:53	N1433	DE-31	12:53	-25	1:00	-1	X			-001A
SG-1 @10'	7/15/22	13:13	R3561	DE-85	13:13	-25	13:22	-2	X			-002A
SG-2 @6'	7/15/22	13:58	A12215	DE-65	13:58	-26	14:26	0	X			-003A
~~SG-2 @10'~~												
SG-3 @6'	7/15/22	12:48	R3579	DE-81	12:48	-28	12:56	-1	X			-004A
SG-3 @10'	7/13/22	16:55	A12175	DE-40	16:55	-28	17:04	0	X			-005A
SG-4 @6'	7/13/22	16:26	R3598	DE-61	16:26	-28	16:36	-2	X			-006A
SG-4 @10'	7/13/22	17:00	A12262	DE-58	17:00	-28	17:07	4	X			-007A
~~SG-5 @6'~~												
~~SG-5 @10'~~												
SG-6 @6'	7/13/22	14:20	R3583	DE-37	14:20	-26	14:25	-5	X			-008A
SG-6 @10'	7/15/22	14:25	A1174	DE-91	14:25	-28	14:32	-3	X			-009A
SG-7 @6'	7/15/22	15:18	R3554	DE-27	15:18	-28	15:32	-6	X			-010A
SG-7 @10'	7/15/22	15:18	A12261	DE-46	15:18	-28	15:24	-4	X			-011A
SG-8	7/13/22	15:55	R3585	DE-14	15:55	-28	15:57	0	X			-012A
SG-9	7/13/22	15:59	A12200	DE-77	15:59	-30	16:28	-4	X			-013A
~~SG-10~~												
SG-11	7/13/22	13:05	N1430	—	13:05	-28	13:10	0	X			-014A
SG-12	7/13/22	13:44	N3947	DE-68	13:44	-30	13:55	-4	X			-015A
SG-13	7/13/22	14:05	A12193	DE-63	14:05	-28	14:10	-4	X			-016A

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
~~Jonna Keith~~	7/15/22 17:37			07/15/22 5:24	
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	DATE/TIME	REMARKS:	
				Leak Check Compound used: DFA	

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJE

Drop off

ENGEO INCORPORATED
2010 CROW CANYON PLACE SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (888) 279-2698
WWW.ENGEO.COM

Engeo (San Ramon)
2010 Crow Canyon Place,#250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199

RE: Cedar Blvd

Work Order No.: 2208064 Rev: 1

Dear Monica Kunzel:

Torrent Laboratory, Inc. received 2 sample(s) on August 05, 2022 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.



Kathie Evans
Project Manager

August 12, 2022
Date

Date: 8/12/2022

Client: Engeo (San Ramon)

Project: Cedar Blvd

Work Order: 2208064

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Laboratory, Inc.

REVISIONS

Report revised to include oxygen data.

Rev. 1 (9/2/22)

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date Received: 08/05/22
Date Reported: 08/12/22

SG-5 @ 6' 2208064-001

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Oxygen	D1946	2.4	0.025	0.12	11%
cis-1,2-Dichloroethene	ETO15	240	200	480	31000
1,1,1-Trichloroethane	ETO15	240	190	660	11000
Tetrachloroethylene	ETO15	240	350	810	47000
Vinyl Chloride	ETO15	30	6.8	38	1900
1,1-Dichloroethene	ETO15	30	25	60	350
trans-1,2-Dichloroethene	ETO15	30	14	59	74
Hexane	ETO15	30	14	53	110
1,1-Dichloroethane	ETO15	30	16	61	6900
Benzene	ETO15	30	13	48	280
Trichloroethylene	ETO15	30	24	81	10000

SG-5 @ 10' 2208064-002

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Oxygen	D1946	2.4	0.025	0.12	7.4%
cis-1,2-Dichloroethene	ETO15	240	200	480	33000
1,1,1-Trichloroethane	ETO15	240	190	660	10000
Tetrachloroethylene	ETO15	240	350	810	45000
Vinyl Chloride	ETO15	30	6.8	38	2100
1,1-Dichloroethene	ETO15	30	25	60	310
trans-1,2-Dichloroethene	ETO15	30	14	59	86
Hexane	ETO15	30	14	53	150
1,1-Dichloroethane	ETO15	30	16	61	5500
Benzene	ETO15	30	13	48	310
Trichloroethylene	ETO15	30	24	81	9200
Toluene	ETO15	30	23	57	140
Ethyl Benzene	ETO15	30	19	65	160
m,p-Xylene	ETO15	30	29	65	700
o-Xylene	ETO15	30	9.1	65	670
4-Ethyl Toluene	ETO15	30	16	74	140
1,3,5-Trimethylbenzene	ETO15	30	9.0	74	180
1,2,4-Trimethylbenzene	ETO15	30	18	74	400

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/05/22, 6:00 pm
Date Reported: 08/12/22

Client Sample ID:	SG-5 @ 6'	**Lab Sample ID:**	2208064-001A
Project Name/Location:	Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/05/22 / 15:10	**Certified Clean WO # :**	
Canister/Tube ID:	R3597	**Received PSI :**	10.4
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	8/25/22 4:30:00PM
Prep Batch ID:	1144543	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	2.40	0.025	0.12	11			08/25/22	17:54	BA	468795

Prep Method:	TO15-P	**Prep Batch Date/Time:**	8/8/22 1:30:00PM
Prep Batch ID:	1143938	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		08/08/22	19:34	BA	468228
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		08/08/22	19:34	BA	468228
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		08/08/22	19:34	BA	468228
Chloromethane	ETO15	30.00	61	120	ND	ND		08/08/22	19:34	BA	468228
Vinyl Chloride	ETO15	30.00	6.8	38	1900	742.19		08/08/22	19:34	BA	468228
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		08/08/22	19:34	BA	468228
Bromomethane	ETO15	30.00	20	58	ND	ND		08/08/22	19:34	BA	468228
Chloroethane	ETO15	30.00	24	40	ND	ND		08/08/22	19:34	BA	468228
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		08/08/22	19:34	BA	468228
1,1-Dichloroethene	ETO15	30.00	25	60	350	88.16		08/08/22	19:34	BA	468228
Freon 113	ETO15	30.00	31	110	ND	ND		08/08/22	19:34	BA	468228
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		08/08/22	19:34	BA	468228
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		08/08/22	19:34	BA	468228
Methylene Chloride	ETO15	30.00	21	310	ND	ND		08/08/22	19:34	BA	468228
Acetone	ETO15	30.00	12	360	ND	ND		08/08/22	19:34	BA	468228
trans-1,2-Dichloroethene	ETO15	30.00	14	59	74	18.69		08/08/22	19:34	BA	468228
Hexane	ETO15	30.00	14	53	110	31.25		08/08/22	19:34	BA	468228
MTBE	ETO15	30.00	13	54	ND	ND		08/08/22	19:34	BA	468228
tert-Butanol	ETO15	30.00	19	45	ND	ND		08/08/22	19:34	BA	468228
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		08/08/22	19:34	BA	468228
1,1-Dichloroethane	ETO15	30.00	16	61	6900	1,703.70		08/08/22	19:34	BA	468228
ETBE	ETO15	30.00	9.8	63	ND	ND		08/08/22	19:34	BA	468228
Chloroform	ETO15	30.00	29	73	ND	ND		08/08/22	19:34	BA	468228
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		08/08/22	19:34	BA	468228
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		08/08/22	19:34	BA	468228
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		08/08/22	19:34	BA	468228
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		08/08/22	19:34	BA	468228
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		08/08/22	19:34	BA	468228
Benzene	ETO15	30.00	13	48	280	87.77		08/08/22	19:34	BA	468228

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/05/22, 6:00 pm
Date Reported: 08/12/22

Client Sample ID:	SG-5 @ 6'	**Lab Sample ID:**	2208064-001A
Project Name/Location:	Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/05/22 / 15:10	**Certified Clean WO # :**	
Canister/Tube ID:	R3597	**Received PSI :**	10.4
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	8/8/22	1:30:00PM
Prep Batch ID:	1143938	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TAME	ETO15	30.00	20	63	ND	ND		08/08/22	19:34	BA	468228
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		08/08/22	19:34	BA	468228
Trichloroethylene	ETO15	30.00	24	81	10000	1,862.20	E	08/08/22	19:34	BA	468228
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		08/08/22	19:34	BA	468228
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		08/08/22	19:34	BA	468228
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		08/08/22	19:34	BA	468228
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		08/08/22	19:34	BA	468228
Toluene	ETO15	30.00	23	57	ND	ND		08/08/22	19:34	BA	468228
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		08/08/22	19:34	BA	468228
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		08/08/22	19:34	BA	468228
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		08/08/22	19:34	BA	468228
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		08/08/22	19:34	BA	468228
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		08/08/22	19:34	BA	468228
2-Hexanone	ETO15	30.00	20	62	ND	ND		08/08/22	19:34	BA	468228
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		08/08/22	19:34	BA	468228
Chlorobenzene	ETO15	30.00	18	69	ND	ND		08/08/22	19:34	BA	468228
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		08/08/22	19:34	BA	468228
m,p-Xylene	ETO15	30.00	29	65	ND	ND		08/08/22	19:34	BA	468228
o-Xylene	ETO15	30.00	9.1	65	ND	ND		08/08/22	19:34	BA	468228
Styrene	ETO15	30.00	14	64	ND	ND		08/08/22	19:34	BA	468228
Bromoform	ETO15	30.00	39	160	ND	ND		08/08/22	19:34	BA	468228
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		08/08/22	19:34	BA	468228
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		08/08/22	19:34	BA	468228
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		08/08/22	19:34	BA	468228
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		08/08/22	19:34	BA	468228
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		08/08/22	19:34	BA	468228
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		08/08/22	19:34	BA	468228
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		08/08/22	19:34	BA	468228
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		08/08/22	19:34	BA	468228
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		08/08/22	19:34	BA	468228
Naphthalene	ETO15	30.00	38	79	ND	ND		08/08/22	19:34	BA	468228
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	58 %			08/08/22	19:34	BA	468228

Prep Method:	TO15-P	**Prep Batch Date/Time:**	8/10/22	11:33:00AM
Prep Batch ID:	1143980	**Prep Analyst:**	BPATEL	

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/05/22, 6:00 pm
Date Reported: 08/12/22

Client Sample ID:	SG-5 @ 6'	**Lab Sample ID:**	2208064-001A
Project Name/Location:	Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/05/22 / 15:10	**Certified Clean WO # :**	
Canister/Tube ID:	R3597	**Received PSI :**	10.4
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	8/10/22	11:33:00AM
Prep Batch ID:	1143980	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
cis-1,2-Dichloroethene	ETO15	240.0	200	480	31000	7,828.28		08/10/22	21:45	BA	468265
1,1,1-Trichloroethane	ETO15	240.0	190	660	11000	2,014.65		08/10/22	21:45	BA	468265
Tetrachloroethylene	ETO15	240.0	350	810	47000	6,932.15		08/10/22	21:45	BA	468265
(S) 4-Bromofluorobenzene	ETO15	240.0	50	150	91 %			08/10/22	21:45	BA	468265

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/05/22, 6:00 pm
Date Reported: 08/12/22

Client Sample ID:	SG-5 @ 10'	**Lab Sample ID:**	2208064-002A
Project Name/Location:	Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/05/22 / 15:15	**Certified Clean WO # :**	
Canister/Tube ID:	A12298	**Received PSI :**	11.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method: FG-P **Prep Batch Date/Time:** 8/25/22 4:30:00PM
Prep Batch ID: 1144543 **Prep Analyst:** BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	2.40	0.025	0.12	7.4			08/25/22	18:48	BA	468795

Prep Method: TO15-P **Prep Batch Date/Time:** 8/8/22 1:30:00PM
Prep Batch ID: 1143938 **Prep Analyst:** BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		08/08/22	19:59	BA	468228
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		08/08/22	19:59	BA	468228
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		08/08/22	19:59	BA	468228
Chloromethane	ETO15	30.00	61	120	ND	ND		08/08/22	19:59	BA	468228
Vinyl Chloride	ETO15	30.00	6.8	38	2100	820.31		08/08/22	19:59	BA	468228
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		08/08/22	19:59	BA	468228
Bromomethane	ETO15	30.00	20	58	ND	ND		08/08/22	19:59	BA	468228
Chloroethane	ETO15	30.00	24	40	ND	ND		08/08/22	19:59	BA	468228
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		08/08/22	19:59	BA	468228
1,1-Dichloroethene	ETO15	30.00	25	60	310	78.09		08/08/22	19:59	BA	468228
Freon 113	ETO15	30.00	31	110	ND	ND		08/08/22	19:59	BA	468228
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		08/08/22	19:59	BA	468228
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		08/08/22	19:59	BA	468228
Methylene Chloride	ETO15	30.00	21	310	ND	ND		08/08/22	19:59	BA	468228
Acetone	ETO15	30.00	12	360	ND	ND		08/08/22	19:59	BA	468228
trans-1,2-Dichloroethene	ETO15	30.00	14	59	86	21.72		08/08/22	19:59	BA	468228
Hexane	ETO15	30.00	14	53	150	42.61		08/08/22	19:59	BA	468228
MTBE	ETO15	30.00	13	54	ND	ND		08/08/22	19:59	BA	468228
tert-Butanol	ETO15	30.00	19	45	ND	ND		08/08/22	19:59	BA	468228
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		08/08/22	19:59	BA	468228
1,1-Dichloroethane	ETO15	30.00	16	61	5500	1,358.02		08/08/22	19:59	BA	468228
ETBE	ETO15	30.00	9.8	63	ND	ND		08/08/22	19:59	BA	468228
Chloroform	ETO15	30.00	29	73	ND	ND		08/08/22	19:59	BA	468228
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		08/08/22	19:59	BA	468228
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		08/08/22	19:59	BA	468228
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		08/08/22	19:59	BA	468228
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		08/08/22	19:59	BA	468228
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		08/08/22	19:59	BA	468228
Benzene	ETO15	30.00	13	48	310	97.18		08/08/22	19:59	BA	468228

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/05/22, 6:00 pm
Date Reported: 08/12/22

Client Sample ID:	SG-5 @ 10'	**Lab Sample ID:**	2208064-002A
Project Name/Location:	Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/05/22 / 15:15	**Certified Clean WO # :**	
Canister/Tube ID:	A12298	**Received PSI :**	11.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	8/8/22	1:30:00PM
Prep Batch ID:	1143938	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TAME	ETO15	30.00	20	63	ND	ND		08/08/22	19:59	BA	468228
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		08/08/22	19:59	BA	468228
Trichloroethylene	ETO15	30.00	24	81	9200	1,713.22		08/08/22	19:59	BA	468228
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		08/08/22	19:59	BA	468228
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		08/08/22	19:59	BA	468228
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		08/08/22	19:59	BA	468228
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		08/08/22	19:59	BA	468228
Toluene	ETO15	30.00	23	57	140	37.14		08/08/22	19:59	BA	468228
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		08/08/22	19:59	BA	468228
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		08/08/22	19:59	BA	468228
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		08/08/22	19:59	BA	468228
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		08/08/22	19:59	BA	468228
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		08/08/22	19:59	BA	468228
2-Hexanone	ETO15	30.00	20	62	ND	ND		08/08/22	19:59	BA	468228
Ethyl Benzene	ETO15	30.00	19	65	160	36.87		08/08/22	19:59	BA	468228
Chlorobenzene	ETO15	30.00	18	69	ND	ND		08/08/22	19:59	BA	468228
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		08/08/22	19:59	BA	468228
m,p-Xylene	ETO15	30.00	29	65	700	161.29		08/08/22	19:59	BA	468228
o-Xylene	ETO15	30.00	9.1	65	670	154.38		08/08/22	19:59	BA	468228
Styrene	ETO15	30.00	14	64	ND	ND		08/08/22	19:59	BA	468228
Bromoform	ETO15	30.00	39	160	ND	ND		08/08/22	19:59	BA	468228
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		08/08/22	19:59	BA	468228
4-Ethyl Toluene	ETO15	30.00	16	74	140	28.46		08/08/22	19:59	BA	468228
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	180	36.59		08/08/22	19:59	BA	468228
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	400	81.30		08/08/22	19:59	BA	468228
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		08/08/22	19:59	BA	468228
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		08/08/22	19:59	BA	468228
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		08/08/22	19:59	BA	468228
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		08/08/22	19:59	BA	468228
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		08/08/22	19:59	BA	468228
Naphthalene	ETO15	30.00	38	79	ND	ND		08/08/22	19:59	BA	468228
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	41 %		S	08/08/22	19:59	BA	468228

NOTE: S - Surrogate recovery out of limits and attributed to matrix interference (heavy end hydrocarbons).

Prep Method:	TO15-P	**Prep Batch Date/Time:**	8/10/22	11:33:00AM
Prep Batch ID:	1143980	**Prep Analyst:**	BPATEL	

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/05/22, 6:00 pm
Date Reported: 08/12/22

Client Sample ID:	SG-5 @ 10'	**Lab Sample ID:**	2208064-002A
Project Name/Location:	Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/05/22 / 15:15	**Certified Clean WO # :**	
Canister/Tube ID:	A12298	**Received PSI :**	11.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	8/10/22	11:33:00AM
Prep Batch ID:	1143980	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
cis-1,2-Dichloroethene	ETO15	240.0	200	480	33000	8,333.33		08/10/22	22:09	BA	468265
1,1,1-Trichloroethane	ETO15	240.0	190	660	10000	1,831.50		08/10/22	22:09	BA	468265
Tetrachloroethylene	ETO15	240.0	350	810	45000	6,637.17		08/10/22	22:09	BA	468265
(S) 4-Bromofluorobenzene	ETO15	240.0	50	150	94 %			08/10/22	22:09	BA	468265

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2208064	**Prep Method:**	TO15-P	**Prep Date:**	08/08/22	**Prep Batch:**	1143938
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	8/8/2022	**Analytical Batch:**	468228
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.32	0.50	ND	
1,1-Difluoroethane	0.13	5.0	ND	
1,2-Dichlorotetrafluoroethane	0.20	0.50	ND	
Chloromethane	0.99	2.0	ND	
Vinyl Chloride	0.088	0.50	ND	
1,3-Butadiene	0.15	0.50	ND	
Bromomethane	0.17	0.50	ND	
Chloroethane	0.31	0.50	ND	
Trichlorofluoromethane	0.099	0.50	ND	
1,1-Dichloroethene	0.21	0.50	ND	
Freon 113	0.13	0.50	ND	
Carbon Disulfide	0.12	0.50	ND	
2-Propanol (Isopropyl Alcohol)	0.52	5.0	ND	
Methylene Chloride	0.20	3.0	ND	
Acetone	0.17	5.0	ND	
trans-1,2-Dichloroethene	0.12	0.50	ND	
Hexane	0.13	0.50	ND	
MTBE	0.12	0.50	ND	
tert-Butanol	0.20	0.50	ND	
Diisopropyl ether (DIPE)	0.18	0.50	ND	
1,1-Dichloroethane	0.13	0.50	ND	
ETBE	0.078	0.50	ND	
cis-1,2-Dichloroethene	0.21	0.50	ND	
Chloroform	0.20	0.50	ND	
Vinyl Acetate	0.22	0.50	ND	
Carbon Tetrachloride	0.18	0.50	ND	
1,1,1-Trichloroethane	0.15	0.50	ND	
2-Butanone (MEK)	0.13	0.50	ND	
Ethyl Acetate	0.13	0.50	ND	
Tetrahydrofuran	0.15	0.50	ND	
Benzene	0.14	0.50	ND	
TAME	0.16	0.50	ND	
1,2-Dichloroethane (EDC)	0.10	0.50	ND	
Trichloroethylene	0.15	0.50	ND	
1,2-Dichloropropane	0.17	0.50	ND	
Bromodichloromethane	0.11	0.50	ND	
1,4-Dioxane	0.50	1.0	ND	
trans-1,3-Dichloropropene	0.23	0.50	ND	
Toluene	0.20	0.50	ND	
4-Methyl-2-Pentanone (MIBK)	0.18	0.50	ND	
cis-1,3-Dichloropropene	0.093	0.50	ND	
Tetrachloroethylene	0.22	0.50	ND	
1,1,2-Trichloroethane	0.11	0.50	ND	
Dibromochloromethane	0.13	0.50	ND	
1,2-Dibromoethane (EDB)	0.096	0.50	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2208064	**Prep Method:**	TO15-P	**Prep Date:**	08/08/22	**Prep Batch:**	1143938
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	8/8/2022	**Analytical Batch:**	468228
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
2-Hexanone	0.16	0.50	ND	
Ethyl Benzene	0.15	0.50	ND	
Chlorobenzene	0.13	0.50	ND	
1,1,1,2-Tetrachloroethane	0.12	0.50	ND	
m,p-Xylene	0.23	0.50	ND	
o-Xylene	0.070	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.13	0.50	ND	
1,1,2,2-Tetrachloroethane	0.12	0.50	ND	
4-Ethyl Toluene	0.11	0.50	ND	
1,3,5-Trimethylbenzene	0.061	0.50	ND	
1,2,4-Trimethylbenzene	0.12	0.50	ND	
1,4-Dichlorobenzene	0.12	0.50	ND	
1,3-Dichlorobenzene	0.22	0.50	ND	
1,2-Dichlorobenzene	0.18	0.50	ND	
Hexachlorobutadiene	0.17	0.50	ND	
1,2,4-Trichlorobenzene	0.29	0.50	ND	
Naphthalene	0.24	0.50	ND	
Cyclohexane	0.50	0.50	ND	
Benzyl Chloride	0.20	0.50	ND	
Heptane	0.13	0.50	ND	
(S) 4-Bromofluorobenzene			85	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2208064	**Prep Method:**	TO15-P	**Prep Date:**	08/10/22	**Prep Batch:**	1143980
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	8/10/2022	**Analytical Batch:**	468265
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.32	0.50	ND	
1,1-Difluoroethane	0.13	5.0	ND	
1,2-Dichlorotetrafluoroethane	0.20	0.50	ND	
Chloromethane	0.99	2.0	ND	
Vinyl Chloride	0.088	0.50	ND	
1,3-Butadiene	0.15	0.50	ND	
Bromomethane	0.17	0.50	ND	
Chloroethane	0.31	0.50	ND	
Trichlorofluoromethane	0.099	0.50	ND	
1,1-Dichloroethene	0.21	0.50	ND	
Freon 113	0.13	0.50	ND	
Carbon Disulfide	0.12	0.50	ND	
2-Propanol (Isopropyl Alcohol)	0.52	5.0	ND	
Methylene Chloride	0.20	3.0	ND	
Acetone	0.17	5.0	ND	
trans-1,2-Dichloroethene	0.12	0.50	ND	
Hexane	0.13	0.50	ND	
MTBE	0.12	0.50	ND	
tert-Butanol	0.20	0.50	ND	
Diisopropyl ether (DIPE)	0.18	0.50	ND	
1,1-Dichloroethane	0.13	0.50	ND	
ETBE	0.078	0.50	ND	
cis-1,2-Dichloroethene	0.21	0.50	ND	
Chloroform	0.20	0.50	ND	
Vinyl Acetate	0.22	0.50	ND	
Carbon Tetrachloride	0.18	0.50	ND	
1,1,1-Trichloroethane	0.15	0.50	ND	
2-Butanone (MEK)	0.13	0.50	ND	
Ethyl Acetate	0.13	0.50	ND	
Tetrahydrofuran	0.15	0.50	ND	
Benzene	0.14	0.50	ND	
TAME	0.16	0.50	ND	
1,2-Dichloroethane (EDC)	0.10	0.50	ND	
Trichloroethylene	0.15	0.50	ND	
1,2-Dichloropropane	0.17	0.50	ND	
Bromodichloromethane	0.11	0.50	ND	
1,4-Dioxane	0.50	1.0	ND	
trans-1,3-Dichloropropene	0.23	0.50	ND	
Toluene	0.20	0.50	ND	
4-Methyl-2-Pentanone (MIBK)	0.18	0.50	ND	
cis-1,3-Dichloropropene	0.093	0.50	ND	
Tetrachloroethylene	0.22	0.50	ND	
1,1,2-Trichloroethane	0.11	0.50	ND	
Dibromochloromethane	0.13	0.50	ND	
1,2-Dibromoethane (EDB)	0.096	0.50	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2208064	**Prep Method:**	TO15-P	**Prep Date:**	08/10/22	**Prep Batch:**	1143980
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	8/10/2022	**Analytical Batch:**	468265
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
2-Hexanone	0.16	0.50	ND	
Ethyl Benzene	0.15	0.50	ND	
Chlorobenzene	0.13	0.50	ND	
1,1,1,2-Tetrachloroethane	0.12	0.50	ND	
m,p-Xylene	0.23	0.50	ND	
o-Xylene	0.070	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.13	0.50	ND	
1,1,2,2-Tetrachloroethane	0.12	0.50	ND	
4-Ethyl Toluene	0.11	0.50	ND	
1,3,5-Trimethylbenzene	0.061	0.50	ND	
1,2,4-Trimethylbenzene	0.12	0.50	ND	
1,4-Dichlorobenzene	0.12	0.50	ND	
1,3-Dichlorobenzene	0.22	0.50	ND	
1,2-Dichlorobenzene	0.18	0.50	ND	
Hexachlorobutadiene	0.17	0.50	ND	
1,2,4-Trichlorobenzene	0.29	0.50	ND	
Naphthalene	0.24	0.50	ND	
Cyclohexane	0.50	0.50	ND	
Benzyl Chloride	0.20	0.50	ND	
Heptane	0.13	0.50	ND	
(S) 4-Bromofluorobenzene			87	

Work Order:	2208064	**Prep Method:**	FG-P	**Prep Date:**	08/25/22	**Prep Batch:**	1144543
Matrix:	Air	**Analytical Method:**	D1946	**Analyzed Date:**	8/25/2022	**Analytical Batch:**	468795
Units:	ppmv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Oxygen	110	500	ND	

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2208064	**Prep Method:**	TO15-P	**Prep Date:**	08/08/22	**Prep Batch:**	1143938
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	8/8/2022	**Analytical Batch:**	468228
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.21	0.50	ND	8.00	123	121	2.25	65 - 135	30	
Benzene	0.14	0.50	ND	8.00	99.7	94.4	5.54	65 - 135	30	
Trichloroethylene	0.15	0.50	ND	8.00	110	104	5.70	65 - 135	30	
Toluene	0.20	0.50	ND	8.00	97.1	93.0	4.34	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	93.6	95.1	1.59	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	88.9	94.1		50 - 150		

Work Order:	2208064	**Prep Method:**	TO15-P	**Prep Date:**	08/10/22	**Prep Batch:**	1143980
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	8/10/2022	**Analytical Batch:**	468265
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.21	0.50	ND	8.00	123	105	16.0	65 - 135	30	
Benzene	0.14	0.50	ND	8.00	95.8	92.9	3.18	65 - 135	30	
Trichloroethylene	0.15	0.50	ND	8.00	107	110	3.34	65 - 135	30	
Toluene	0.20	0.50	ND	8.00	95.5	97.0	1.56	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	99.3	103	3.22	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	93.2	91.8		50 - 150		

Work Order:	2208064	**Prep Method:**	FG-P	**Prep Date:**	08/25/22	**Prep Batch:**	1144543
Matrix:	Air	**Analytical Method:**	D1946	**Analyzed Date:**	8/25/2022	**Analytical Batch:**	468795
Units:	ppmv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Oxygen	110	500	ND	2500	96.4	88.3	8.66	65 - 135	30	

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg/m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Project Name: Cedar Blvd

Work Order No.: 2208064

Date and Time Received: 8/5/2022 6:00:00PM

Received By: Lorna Imbat

Physically Logged By: Lorna Imbat

Checklist Completed By: Lorna Imbat

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	Yes
Custody seals intact on sample bottles?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes
Container/Temp Blank temperature in compliance?	Temperature: °C
Water-VOA vials have zero headspace?	No VOA vials submitted
Water-pH acceptable upon receipt?	N/A

pH Checked by: N/A

pH Adjusted by: N/A

Comments:

Login Summary Report

Client ID:	TL5123	Engeo (San Ramon)	**QC Level:**	II
Project Name:	Cedar Blvd		**TAT Requested:**	5+ day:5
Project # :	15799.004.000		**Date Received:**	8/5/2022
Report Due Date:	8/31/2022		**Time Received:**	6:00 pm

Comments:

Work Order # : ***2208064***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
2208064-001A	SG-5 @ 6'	08/05/22 15:10	Air				VOC_A_FG D1946 VOC_A_TO15	
Sample Note:	Leak check DFA							
2208064-002A	SG-5 @ 10'	08/05/22 15:15	Air				VOC_A_FG D1946 VOC_A_TO15	

Torrent LABORATORY, INC.

2208064

CHAIN OF CUSTODY RECORD

PROJECT NUMBER: 15799.004.000
PROJECT NAME: 38600 CEDAR BOULEVARD
SAMPLED BY: (SIGNATURE/PRINT): MONIQ KUNZEL
PROJECT MANAGER: (SIGNATURE/PRINT): MONIQ KUNZEL
ROUTING: E-MAIL MKUNZEL@ENGEO.COM HARD COPY

SAMPLE NUMBER	DATE	TIME	CANISTER #	FLOW REGULATOR ID	START TIME	START VACUUM	END TIME	END VACUUM	VOCs (TO-15)	Fixed Gases (ASTMd 1946)	TPH-g (TO-15)								REMARKS REQUIRED DETECTION LIMITS
SG-5 @ 6'	8.5.22	15:10	R3597	DE-45	15:55	-28 Hg	10:01	-5 Hg	X			-001A							
SG-5 @ 10'	8.5.22	15:15	~~D2-46~~ A12298	DE-46	15:58	-27 Hg	10:03	-5 Hg	X			-002A							

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	8/05/22 5:37 PM			8.5.22 10:00 PM	L.D. Inlsat
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	DATE/TIME	REMARKS: STANDARD TAT	
				Leak Check Compound used: DFA	

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJE

ENGEO INCORPORATED
2010 CROW CANYON PLACE SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (888) 279-2698
WWW.ENGEO.COM

2/6
Red canister @ ambient temp

Engeo (San Ramon)
2010 Crow Canyon Place,#250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199

RE: 38600 Cedar Blvd

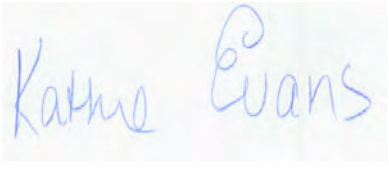
Work Order No.: 2208230

Dear Monica Kunzel:

Torrent Laboratory, Inc. received 9 sample(s) on August 26, 2022 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.



Kathie Evans
Project Manager

September 02, 2022
Date

Date: 9/2/2022

Client: Engeo (San Ramon)

Project: 38600 Cedar Blvd

Work Order: 2208230

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Laboratory, Inc.

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date Received: 08/26/22
Date Reported: 09/02/22

SG-20 2208230-001

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Oxygen	D1946	6.8	0.072	0.34	4.7%
1,1,1-Trichloroethane	ETO15	10	7.9	27	63
Trichloroethylene	ETO15	10	8.1	27	460
Tetrachloroethylene	ETO15	10	15	34	2700

SG-21 2208230-002

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Oxygen	D1946	6.7	0.071	0.34	1.0%
1,1-Difluoroethane	ETO15	30	10	410	74000
Chloroethane	ETO15	30	24	40	41
Hexane	ETO15	30	14	53	3900
cis-1,2-Dichloroethene	ETO15	30	25	59	860
Chloroform	ETO15	30	29	73	600

SG-15 2208230-003

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Oxygen	D1946	19	0.20	0.95	11%
Carbon Disulfide	ETO15	1	0.37	1.6	15
Acetone	ETO15	1	0.40	12	50
Hexane	ETO15	1	0.46	1.8	2.2
Chloroform	ETO15	1	0.97	2.4	9.3
1,1,1-Trichloroethane	ETO15	1	0.79	2.7	9.4
2-Butanone (MEK)	ETO15	1	0.39	1.5	3.1
Benzene	ETO15	1	0.44	1.6	1.8
Toluene	ETO15	1	0.75	1.9	12
m,p-Xylene	ETO15	1	0.98	2.2	7.1
o-Xylene	ETO15	1	0.30	2.2	3.9

SG-14 2208230-004

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Oxygen	D1946	3.9	0.041	0.20	14%
Carbon Disulfide	ETO15	1	0.37	1.6	6.4
Acetone	ETO15	1	0.40	12	42
Chloroform	ETO15	1	0.97	2.4	4.6
1,1,1-Trichloroethane	ETO15	1	0.79	2.7	29
2-Butanone (MEK)	ETO15	1	0.39	1.5	13
Toluene	ETO15	1	0.75	1.9	6.1
4-Methyl-2-Pentanone (MIBK)	ETO15	1	0.75	2.1	3.2
Tetrachloroethylene	ETO15	1	1.5	3.4	15

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date Received: 08/26/22
Date Reported: 09/02/22

SG-17 2208230-005

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Oxygen	D1946	5.1	0.054	0.26	0.28%
Hexane	ETO15	30	14	53	330
Chloroform	ETO15	30	29	73	720
Benzene	ETO15	30	13	48	890
Toluene	ETO15	30	23	57	58
Acetone	ETO15	60	24	710	4200

SG-16 2208230-006

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Oxygen	D1946	5.1	0.054	0.26	0.48%
trans-1,2-Dichloroethene	ETO15	30	14	59	150
1,1-Dichloroethane	ETO15	30	16	61	120
cis-1,2-Dichloroethene	ETO15	30	25	59	350
Chloroform	ETO15	30	29	73	1000
Benzene	ETO15	30	13	48	1800
m,p-Xylene	ETO15	30	29	65	100
o-Xylene	ETO15	30	9.1	65	79
1,2,4-Trichlorobenzene	ETO15	30	65	110	130
Acetone	ETO15	120	47	1400	3700
Hexane	ETO15	120	56	210	11000

SG-19 2208230-007

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Oxygen	D1946	5.9	0.062	0.30	0.14%
trans-1,2-Dichloroethene	ETO15	30	14	59	580
Hexane	ETO15	30	14	53	630
Chloroform	ETO15	30	29	73	250
2-Butanone (MEK)	ETO15	30	12	44	1700
Trichloroethylene	ETO15	30	24	81	2900
Tetrachloroethylene	ETO15	30	44	100	5200
cis-1,2-Dichloroethene	ETO15	60	50	120	4700

SG-18 2208230-008

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Oxygen	D1946	4.6	0.049	0.23	0.85%
1,1,1-Trichloroethane	ETO15	30	24	82	270
Tetrachloroethylene	ETO15	60	87	200	15000

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date Received: 08/26/22
Date Reported: 09/02/22

SG-10 2208230-009

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Oxygen	D1946	4.4	0.046	0.22	15%
Carbon Disulfide	ETO15	2	0.75	3.1	23
Acetone	ETO15	2	0.79	24	120
tert-Butanol	ETO15	2	1.2	3.0	16
Carbon Tetrachloride	ETO15	2	2.2	6.3	7.6
1,1,1-Trichloroethane	ETO15	2	1.6	5.5	22
2-Butanone (MEK)	ETO15	2	0.78	3.0	14
Benzene	ETO15	2	0.87	3.2	5.0
Trichloroethylene	ETO15	2	1.6	5.4	140
Toluene	ETO15	2	1.5	3.8	12
Tetrachloroethylene	ETO15	2	2.9	6.8	410
1,1,2-Trichloroethane	ETO15	2	1.2	5.5	6.1

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-20	**Lab Sample ID:**	2208230-001A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/23/22 / 13:33	**Certified Clean WO # :**	
Canister/Tube ID:	6116	**Received PSI :**	11.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22 10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	6.80	0.072	0.34	4.7			09/02/22	10:24	BA	468853

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22 4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	10.00	16	25	ND	ND		09/02/22	6:18	BA	468818
1,1-Difluoroethane	ETO15	10.00	3.5	140	ND	ND		09/02/22	6:18	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	10.00	14	35	ND	ND		09/02/22	6:18	BA	468818
Chloromethane	ETO15	10.00	20	41	ND	ND		09/02/22	6:18	BA	468818
Vinyl Chloride	ETO15	10.00	2.3	13	ND	ND		09/02/22	6:18	BA	468818
1,3-Butadiene	ETO15	10.00	3.4	11	ND	ND		09/02/22	6:18	BA	468818
Bromomethane	ETO15	10.00	6.6	19	ND	ND		09/02/22	6:18	BA	468818
Chloroethane	ETO15	10.00	8.1	13	ND	ND		09/02/22	6:18	BA	468818
Trichlorofluoromethane	ETO15	10.00	5.6	28	ND	ND		09/02/22	6:18	BA	468818
1,1-Dichloroethene	ETO15	10.00	8.3	20	ND	ND		09/02/22	6:18	BA	468818
Freon 113	ETO15	10.00	10	38	ND	ND		09/02/22	6:18	BA	468818
Carbon Disulfide	ETO15	10.00	3.7	16	ND	ND		09/02/22	6:18	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	10.00	13	120	ND	ND		09/02/22	6:18	BA	468818
Methylene Chloride	ETO15	10.00	7.0	100	ND	ND		09/02/22	6:18	BA	468818
Acetone	ETO15	10.00	4.0	120	ND	ND		09/02/22	6:18	BA	468818
trans-1,2-Dichloroethene	ETO15	10.00	4.8	20	ND	ND		09/02/22	6:18	BA	468818
Hexane	ETO15	10.00	4.6	18	ND	ND		09/02/22	6:18	BA	468818
MTBE	ETO15	10.00	4.4	18	ND	ND		09/02/22	6:18	BA	468818
tert-Butanol	ETO15	10.00	6.2	15	ND	ND		09/02/22	6:18	BA	468818
Diisopropyl ether (DIPE)	ETO15	10.00	7.4	21	ND	ND		09/02/22	6:18	BA	468818
1,1-Dichloroethane	ETO15	10.00	5.4	20	ND	ND		09/02/22	6:18	BA	468818
ETBE	ETO15	10.00	3.3	21	ND	ND		09/02/22	6:18	BA	468818
cis-1,2-Dichloroethene	ETO15	10.00	8.3	20	ND	ND		09/02/22	6:18	BA	468818
Chloroform	ETO15	10.00	9.7	24	ND	ND		09/02/22	6:18	BA	468818
Vinyl Acetate	ETO15	10.00	7.6	18	ND	ND		09/02/22	6:18	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-20	**Lab Sample ID:**	2208230-001A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/23/22 / 13:33	**Certified Clean WO # :**	
Canister/Tube ID:	6116	**Received PSI :**	11.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Carbon Tetrachloride	ETO15	10.00	11	31	ND	ND		09/02/22	6:18	BA	468818
1,1,1-Trichloroethane	ETO15	10.00	7.9	27	63	11.54		09/02/22	6:18	BA	468818
2-Butanone (MEK)	ETO15	10.00	3.9	15	ND	ND		09/02/22	6:18	BA	468818
Ethyl Acetate	ETO15	10.00	4.8	18	ND	ND		09/02/22	6:18	BA	468818
Tetrahydrofuran	ETO15	10.00	4.5	15	ND	ND		09/02/22	6:18	BA	468818
Benzene	ETO15	10.00	4.4	16	ND	ND		09/02/22	6:18	BA	468818
TAME	ETO15	10.00	6.7	21	ND	ND		09/02/22	6:18	BA	468818
1,2-Dichloroethane (EDC)	ETO15	10.00	4.2	20	ND	ND		09/02/22	6:18	BA	468818
Trichloroethylene	ETO15	10.00	8.1	27	460	85.66		09/02/22	6:18	BA	468818
1,2-Dichloropropane	ETO15	10.00	7.6	23	ND	ND		09/02/22	6:18	BA	468818
Bromodichloromethane	ETO15	10.00	7.4	34	ND	ND		09/02/22	6:18	BA	468818
1,4-Dioxane	ETO15	10.00	18	36	ND	ND		09/02/22	6:18	BA	468818
trans-1,3-Dichloropropene	ETO15	10.00	11	23	ND	ND		09/02/22	6:18	BA	468818
Toluene	ETO15	10.00	7.5	19	ND	ND		09/02/22	6:18	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	10.00	7.5	21	ND	ND		09/02/22	6:18	BA	468818
cis-1,3-Dichloropropene	ETO15	10.00	4.2	23	ND	ND		09/02/22	6:18	BA	468818
Tetrachloroethylene	ETO15	10.00	15	34	2700	398.23		09/02/22	6:18	BA	468818
1,1,2-Trichloroethane	ETO15	10.00	5.8	27	ND	ND		09/02/22	6:18	BA	468818
Dibromochloromethane	ETO15	10.00	11	43	ND	ND		09/02/22	6:18	BA	468818
1,2-Dibromoethane (EDB)	ETO15	10.00	7.4	38	ND	ND		09/02/22	6:18	BA	468818
2-Hexanone	ETO15	10.00	6.5	21	ND	ND		09/02/22	6:18	BA	468818
Ethyl Benzene	ETO15	10.00	6.3	22	ND	ND		09/02/22	6:18	BA	468818
Chlorobenzene	ETO15	10.00	6.0	23	ND	ND		09/02/22	6:18	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	10.00	8.4	34	ND	ND		09/02/22	6:18	BA	468818
m,p-Xylene	ETO15	10.00	9.8	22	ND	ND		09/02/22	6:18	BA	468818
o-Xylene	ETO15	10.00	3.0	22	ND	ND		09/02/22	6:18	BA	468818
Styrene	ETO15	10.00	4.6	21	ND	ND		09/02/22	6:18	BA	468818
Bromoform	ETO15	10.00	13	52	ND	ND		09/02/22	6:18	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	10.00	8.2	34	ND	ND		09/02/22	6:18	BA	468818
4-Ethyl Toluene	ETO15	10.00	5.5	25	ND	ND		09/02/22	6:18	BA	468818
1,3,5-Trimethylbenzene	ETO15	10.00	3.0	25	ND	ND		09/02/22	6:18	BA	468818
1,2,4-Trimethylbenzene	ETO15	10.00	6.0	25	ND	ND		09/02/22	6:18	BA	468818
1,4-Dichlorobenzene	ETO15	10.00	7.5	30	ND	ND		09/02/22	6:18	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-20	**Lab Sample ID:**	2208230-001A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/23/22 / 13:33	**Certified Clean WO # :**	
Canister/Tube ID:	6116	**Received PSI :**	11.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,3-Dichlorobenzene	ETO15	10.00	13	30	ND	ND		09/02/22	6:18	BA	468818
1,2-Dichlorobenzene	ETO15	10.00	11	30	ND	ND		09/02/22	6:18	BA	468818
Hexachlorobutadiene	ETO15	10.00	19	53	ND	ND		09/02/22	6:18	BA	468818
1,2,4-Trichlorobenzene	ETO15	10.00	22	37	ND	ND		09/02/22	6:18	BA	468818
Naphthalene	ETO15	10.00	13	26	ND	ND		09/02/22	6:18	BA	468818
(S) 4-Bromofluorobenzene	ETO15	10.00	50	150	98 %			09/02/22	6:18	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-21	**Lab Sample ID:**	2208230-002A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/23/22 / 13:49	**Certified Clean WO # :**	
Canister/Tube ID:	A12221	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22 10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	6.70	0.071	0.34	1.0			09/02/22	10:51	BA	468853

NOTE: Low Oxygen likely due to high microbial activity (high concentration of non-target gas).

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22 4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		09/01/22	20:48	BA	468818
1,1-Difluoroethane	ETO15	30.00	10	410	74000	27,407.41	E	09/01/22	20:48	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		09/01/22	20:48	BA	468818
Chloromethane	ETO15	30.00	61	120	ND	ND		09/01/22	20:48	BA	468818
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		09/01/22	20:48	BA	468818
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		09/01/22	20:48	BA	468818
Bromomethane	ETO15	30.00	20	58	ND	ND		09/01/22	20:48	BA	468818
Chloroethane	ETO15	30.00	24	40	41	15.53		09/01/22	20:48	BA	468818
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		09/01/22	20:48	BA	468818
1,1-Dichloroethene	ETO15	30.00	25	60	ND	ND		09/01/22	20:48	BA	468818
Freon 113	ETO15	30.00	31	110	ND	ND		09/01/22	20:48	BA	468818
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		09/01/22	20:48	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		09/01/22	20:48	BA	468818
Methylene Chloride	ETO15	30.00	21	310	ND	ND		09/01/22	20:48	BA	468818
Acetone	ETO15	30.00	12	360	ND	ND		09/01/22	20:48	BA	468818
trans-1,2-Dichloroethene	ETO15	30.00	14	59	ND	ND		09/01/22	20:48	BA	468818
Hexane	ETO15	30.00	14	53	3900	1,107.95		09/01/22	20:48	BA	468818
MTBE	ETO15	30.00	13	54	ND	ND		09/01/22	20:48	BA	468818
tert-Butanol	ETO15	30.00	19	45	ND	ND		09/01/22	20:48	BA	468818
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		09/01/22	20:48	BA	468818
1,1-Dichloroethane	ETO15	30.00	16	61	ND	ND		09/01/22	20:48	BA	468818
ETBE	ETO15	30.00	9.8	63	ND	ND		09/01/22	20:48	BA	468818
cis-1,2-Dichloroethene	ETO15	30.00	25	59	860	217.17		09/01/22	20:48	BA	468818
Chloroform	ETO15	30.00	29	73	600	122.95		09/01/22	20:48	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-21	**Lab Sample ID:**	2208230-002A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/23/22 / 13:49	**Certified Clean WO # :**	
Canister/Tube ID:	A12221	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		09/01/22	20:48	BA	468818
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		09/01/22	20:48	BA	468818
1,1,1-Trichloroethane	ETO15	30.00	24	82	ND	ND		09/01/22	20:48	BA	468818
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		09/01/22	20:48	BA	468818
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		09/01/22	20:48	BA	468818
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		09/01/22	20:48	BA	468818
Benzene	ETO15	30.00	13	48	ND	ND		09/01/22	20:48	BA	468818
TAME	ETO15	30.00	20	63	ND	ND		09/01/22	20:48	BA	468818
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		09/01/22	20:48	BA	468818
Trichloroethylene	ETO15	30.00	24	81	ND	ND		09/01/22	20:48	BA	468818
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		09/01/22	20:48	BA	468818
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		09/01/22	20:48	BA	468818
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		09/01/22	20:48	BA	468818
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		09/01/22	20:48	BA	468818
Toluene	ETO15	30.00	23	57	ND	ND		09/01/22	20:48	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		09/01/22	20:48	BA	468818
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		09/01/22	20:48	BA	468818
Tetrachloroethylene	ETO15	30.00	44	100	ND	ND		09/01/22	20:48	BA	468818
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		09/01/22	20:48	BA	468818
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		09/01/22	20:48	BA	468818
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		09/01/22	20:48	BA	468818
2-Hexanone	ETO15	30.00	20	62	ND	ND		09/01/22	20:48	BA	468818
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		09/01/22	20:48	BA	468818
Chlorobenzene	ETO15	30.00	18	69	ND	ND		09/01/22	20:48	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/01/22	20:48	BA	468818
m,p-Xylene	ETO15	30.00	29	65	ND	ND		09/01/22	20:48	BA	468818
o-Xylene	ETO15	30.00	9.1	65	ND	ND		09/01/22	20:48	BA	468818
Styrene	ETO15	30.00	14	64	ND	ND		09/01/22	20:48	BA	468818
Bromoform	ETO15	30.00	39	160	ND	ND		09/01/22	20:48	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/01/22	20:48	BA	468818
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		09/01/22	20:48	BA	468818
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		09/01/22	20:48	BA	468818
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		09/01/22	20:48	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-21	**Lab Sample ID:**	2208230-002A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/23/22 / 13:49	**Certified Clean WO # :**	
Canister/Tube ID:	A12221	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		09/01/22	20:48	BA	468818
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		09/01/22	20:48	BA	468818
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		09/01/22	20:48	BA	468818
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		09/01/22	20:48	BA	468818
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		09/01/22	20:48	BA	468818
Naphthalene	ETO15	30.00	38	79	ND	ND		09/01/22	20:48	BA	468818
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	93 %			09/01/22	20:48	BA	468818

NOTE: E - Estimated value

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-15	**Lab Sample ID:**	2208230-003A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 10:21	**Certified Clean WO # :**	
Canister/Tube ID:	8344	**Received PSI :**	12.2
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22	10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI	

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	19.00	0.20	0.95	11			09/02/22	11:17	BA	468853

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		09/02/22	7:18	BA	468818
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		09/02/22	7:18	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		09/02/22	7:18	BA	468818
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		09/02/22	7:18	BA	468818
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		09/02/22	7:18	BA	468818
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		09/02/22	7:18	BA	468818
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		09/02/22	7:18	BA	468818
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		09/02/22	7:18	BA	468818
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		09/02/22	7:18	BA	468818
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		09/02/22	7:18	BA	468818
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		09/02/22	7:18	BA	468818
Carbon Disulfide	ETO15	1.00	0.37	1.6	15	4.82		09/02/22	7:18	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		09/02/22	7:18	BA	468818
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		09/02/22	7:18	BA	468818
Acetone	ETO15	1.00	0.40	12	50	21.01		09/02/22	7:18	BA	468818
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		09/02/22	7:18	BA	468818
Hexane	ETO15	1.00	0.46	1.8	2.2	0.63		09/02/22	7:18	BA	468818
MTBE	ETO15	1.00	0.44	1.8	ND	ND		09/02/22	7:18	BA	468818
tert-Butanol	ETO15	1.00	0.62	1.5	ND	ND		09/02/22	7:18	BA	468818
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		09/02/22	7:18	BA	468818
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		09/02/22	7:18	BA	468818
ETBE	ETO15	1.00	0.33	2.1	ND	ND		09/02/22	7:18	BA	468818
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		09/02/22	7:18	BA	468818
Chloroform	ETO15	1.00	0.97	2.4	9.3	1.91		09/02/22	7:18	BA	468818
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		09/02/22	7:18	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-15	**Lab Sample ID:**	2208230-003A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 10:21	**Certified Clean WO # :**	
Canister/Tube ID:	8344	**Received PSI :**	12.2
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		09/02/22	7:18	BA	468818
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	9.4	1.72		09/02/22	7:18	BA	468818
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	3.1	1.05		09/02/22	7:18	BA	468818
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		09/02/22	7:18	BA	468818
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		09/02/22	7:18	BA	468818
Benzene	ETO15	1.00	0.44	1.6	1.8	0.56		09/02/22	7:18	BA	468818
TAME	ETO15	1.00	0.67	2.1	ND	ND		09/02/22	7:18	BA	468818
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		09/02/22	7:18	BA	468818
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		09/02/22	7:18	BA	468818
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		09/02/22	7:18	BA	468818
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		09/02/22	7:18	BA	468818
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		09/02/22	7:18	BA	468818
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		09/02/22	7:18	BA	468818
Toluene	ETO15	1.00	0.75	1.9	12	3.18		09/02/22	7:18	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		09/02/22	7:18	BA	468818
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		09/02/22	7:18	BA	468818
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		09/02/22	7:18	BA	468818
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		09/02/22	7:18	BA	468818
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		09/02/22	7:18	BA	468818
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		09/02/22	7:18	BA	468818
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		09/02/22	7:18	BA	468818
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		09/02/22	7:18	BA	468818
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		09/02/22	7:18	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		09/02/22	7:18	BA	468818
m,p-Xylene	ETO15	1.00	0.98	2.2	7.1	1.64		09/02/22	7:18	BA	468818
o-Xylene	ETO15	1.00	0.30	2.2	3.9	0.90		09/02/22	7:18	BA	468818
Styrene	ETO15	1.00	0.46	2.1	ND	ND		09/02/22	7:18	BA	468818
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		09/02/22	7:18	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		09/02/22	7:18	BA	468818
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		09/02/22	7:18	BA	468818
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		09/02/22	7:18	BA	468818
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		09/02/22	7:18	BA	468818
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		09/02/22	7:18	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-15	**Lab Sample ID:**	2208230-003A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 10:21	**Certified Clean WO # :**	
Canister/Tube ID:	8344	**Received PSI :**	12.2
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		09/02/22	7:18	BA	468818
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		09/02/22	7:18	BA	468818
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		09/02/22	7:18	BA	468818
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		09/02/22	7:18	BA	468818
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		09/02/22	7:18	BA	468818
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	95 %			09/02/22	7:18	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-14	**Lab Sample ID:**	2208230-004A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 10:29	**Certified Clean WO # :**	
Canister/Tube ID:	N3966	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22 10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	3.90	0.041	0.20	14			09/02/22	11:44	BA	468853

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22 4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		09/02/22	7:46	BA	468818
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		09/02/22	7:46	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		09/02/22	7:46	BA	468818
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		09/02/22	7:46	BA	468818
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		09/02/22	7:46	BA	468818
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		09/02/22	7:46	BA	468818
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		09/02/22	7:46	BA	468818
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		09/02/22	7:46	BA	468818
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		09/02/22	7:46	BA	468818
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		09/02/22	7:46	BA	468818
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		09/02/22	7:46	BA	468818
Carbon Disulfide	ETO15	1.00	0.37	1.6	6.4	2.06		09/02/22	7:46	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		09/02/22	7:46	BA	468818
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		09/02/22	7:46	BA	468818
Acetone	ETO15	1.00	0.40	12	42	17.65		09/02/22	7:46	BA	468818
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		09/02/22	7:46	BA	468818
Hexane	ETO15	1.00	0.46	1.8	ND	ND		09/02/22	7:46	BA	468818
MTBE	ETO15	1.00	0.44	1.8	ND	ND		09/02/22	7:46	BA	468818
tert-Butanol	ETO15	1.00	0.62	1.5	ND	ND		09/02/22	7:46	BA	468818
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		09/02/22	7:46	BA	468818
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		09/02/22	7:46	BA	468818
ETBE	ETO15	1.00	0.33	2.1	ND	ND		09/02/22	7:46	BA	468818
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		09/02/22	7:46	BA	468818
Chloroform	ETO15	1.00	0.97	2.4	4.6	0.94		09/02/22	7:46	BA	468818
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		09/02/22	7:46	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-14	**Lab Sample ID:**	2208230-004A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 10:29	**Certified Clean WO # :**	
Canister/Tube ID:	N3966	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		09/02/22	7:46	BA	468818
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	29	5.31		09/02/22	7:46	BA	468818
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	13	4.41		09/02/22	7:46	BA	468818
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		09/02/22	7:46	BA	468818
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		09/02/22	7:46	BA	468818
Benzene	ETO15	1.00	0.44	1.6	ND	ND		09/02/22	7:46	BA	468818
TAME	ETO15	1.00	0.67	2.1	ND	ND		09/02/22	7:46	BA	468818
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		09/02/22	7:46	BA	468818
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		09/02/22	7:46	BA	468818
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		09/02/22	7:46	BA	468818
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		09/02/22	7:46	BA	468818
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		09/02/22	7:46	BA	468818
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		09/02/22	7:46	BA	468818
Toluene	ETO15	1.00	0.75	1.9	6.1	1.62		09/02/22	7:46	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	3.2	0.78		09/02/22	7:46	BA	468818
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		09/02/22	7:46	BA	468818
Tetrachloroethylene	ETO15	1.00	1.5	3.4	15	2.21		09/02/22	7:46	BA	468818
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		09/02/22	7:46	BA	468818
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		09/02/22	7:46	BA	468818
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		09/02/22	7:46	BA	468818
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		09/02/22	7:46	BA	468818
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		09/02/22	7:46	BA	468818
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		09/02/22	7:46	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		09/02/22	7:46	BA	468818
m,p-Xylene	ETO15	1.00	0.98	2.2	ND	ND		09/02/22	7:46	BA	468818
o-Xylene	ETO15	1.00	0.30	2.2	ND	ND		09/02/22	7:46	BA	468818
Styrene	ETO15	1.00	0.46	2.1	ND	ND		09/02/22	7:46	BA	468818
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		09/02/22	7:46	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		09/02/22	7:46	BA	468818
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		09/02/22	7:46	BA	468818
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		09/02/22	7:46	BA	468818
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		09/02/22	7:46	BA	468818
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		09/02/22	7:46	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-14	**Lab Sample ID:**	2208230-004A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 10:29	**Certified Clean WO # :**	
Canister/Tube ID:	N3966	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		09/02/22	7:46	BA	468818
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		09/02/22	7:46	BA	468818
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		09/02/22	7:46	BA	468818
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		09/02/22	7:46	BA	468818
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		09/02/22	7:46	BA	468818
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	93 %			09/02/22	7:46	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-17	**Lab Sample ID:**	2208230-005A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 11:51	**Certified Clean WO # :**	
Canister/Tube ID:	A7558	**Received PSI :**	11.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22 10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	5.10	0.054	0.26	0.28			09/02/22	12:11	BA	468853

NOTE: Low Oxygen likely due to high microbial activity (high concentration of non-target gases).

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22 4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		09/01/22	22:02	BA	468818
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		09/01/22	22:02	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		09/01/22	22:02	BA	468818
Chloromethane	ETO15	30.00	61	120	ND	ND		09/01/22	22:02	BA	468818
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		09/01/22	22:02	BA	468818
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		09/01/22	22:02	BA	468818
Bromomethane	ETO15	30.00	20	58	ND	ND		09/01/22	22:02	BA	468818
Chloroethane	ETO15	30.00	24	40	ND	ND		09/01/22	22:02	BA	468818
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		09/01/22	22:02	BA	468818
1,1-Dichloroethene	ETO15	30.00	25	60	ND	ND		09/01/22	22:02	BA	468818
Freon 113	ETO15	30.00	31	110	ND	ND		09/01/22	22:02	BA	468818
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		09/01/22	22:02	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		09/01/22	22:02	BA	468818
Methylene Chloride	ETO15	30.00	21	310	ND	ND		09/01/22	22:02	BA	468818
trans-1,2-Dichloroethene	ETO15	30.00	14	59	ND	ND		09/01/22	22:02	BA	468818
Hexane	ETO15	30.00	14	53	330	93.75		09/01/22	22:02	BA	468818
MTBE	ETO15	30.00	13	54	ND	ND		09/01/22	22:02	BA	468818
tert-Butanol	ETO15	30.00	19	45	ND	ND		09/01/22	22:02	BA	468818
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		09/01/22	22:02	BA	468818
1,1-Dichloroethane	ETO15	30.00	16	61	ND	ND		09/01/22	22:02	BA	468818
ETBE	ETO15	30.00	9.8	63	ND	ND		09/01/22	22:02	BA	468818
cis-1,2-Dichloroethene	ETO15	30.00	25	59	ND	ND		09/01/22	22:02	BA	468818
Chloroform	ETO15	30.00	29	73	720	147.54		09/01/22	22:02	BA	468818
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		09/01/22	22:02	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-17	**Lab Sample ID:**	2208230-005A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 11:51	**Certified Clean WO # :**	
Canister/Tube ID:	A7558	**Received PSI :**	11.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		09/01/22	22:02	BA	468818
1,1,1-Trichloroethane	ETO15	30.00	24	82	ND	ND		09/01/22	22:02	BA	468818
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		09/01/22	22:02	BA	468818
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		09/01/22	22:02	BA	468818
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		09/01/22	22:02	BA	468818
Benzene	ETO15	30.00	13	48	890	279.00		09/01/22	22:02	BA	468818
TAME	ETO15	30.00	20	63	ND	ND		09/01/22	22:02	BA	468818
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		09/01/22	22:02	BA	468818
Trichloroethylene	ETO15	30.00	24	81	ND	ND		09/01/22	22:02	BA	468818
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		09/01/22	22:02	BA	468818
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		09/01/22	22:02	BA	468818
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		09/01/22	22:02	BA	468818
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		09/01/22	22:02	BA	468818
Toluene	ETO15	30.00	23	57	58	15.38		09/01/22	22:02	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		09/01/22	22:02	BA	468818
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		09/01/22	22:02	BA	468818
Tetrachloroethylene	ETO15	30.00	44	100	ND	ND		09/01/22	22:02	BA	468818
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		09/01/22	22:02	BA	468818
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		09/01/22	22:02	BA	468818
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		09/01/22	22:02	BA	468818
2-Hexanone	ETO15	30.00	20	62	ND	ND		09/01/22	22:02	BA	468818
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		09/01/22	22:02	BA	468818
Chlorobenzene	ETO15	30.00	18	69	ND	ND		09/01/22	22:02	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/01/22	22:02	BA	468818
m,p-Xylene	ETO15	30.00	29	65	ND	ND		09/01/22	22:02	BA	468818
o-Xylene	ETO15	30.00	9.1	65	ND	ND		09/01/22	22:02	BA	468818
Styrene	ETO15	30.00	14	64	ND	ND		09/01/22	22:02	BA	468818
Bromoform	ETO15	30.00	39	160	ND	ND		09/01/22	22:02	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/01/22	22:02	BA	468818
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		09/01/22	22:02	BA	468818
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		09/01/22	22:02	BA	468818
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		09/01/22	22:02	BA	468818
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		09/01/22	22:02	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-17	**Lab Sample ID:**	2208230-005A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 11:51	**Certified Clean WO # :**	
Canister/Tube ID:	A7558	**Received PSI :**	11.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		09/01/22	22:02	BA	468818
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		09/01/22	22:02	BA	468818
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		09/01/22	22:02	BA	468818
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		09/01/22	22:02	BA	468818
Naphthalene	ETO15	30.00	38	79	ND	ND		09/01/22	22:02	BA	468818
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	95 %			09/01/22	22:02	BA	468818

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Acetone	ETO15	60.00	24	710	4200	1,764.71		09/02/22	8:11	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-16	**Lab Sample ID:**	2208230-006A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 11:59	**Certified Clean WO # :**	
Canister/Tube ID:	N3990	**Received PSI :**	12.2
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22 10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	5.10	0.054	0.26	0.48			09/02/22	12:38	BA	468853

NOTE: Low Oxygen likely due to high microbial activity (high concentration of non-target gases).

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22 4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		09/01/22	22:27	BA	468818
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		09/01/22	22:27	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		09/01/22	22:27	BA	468818
Chloromethane	ETO15	30.00	61	120	ND	ND		09/01/22	22:27	BA	468818
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		09/01/22	22:27	BA	468818
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		09/01/22	22:27	BA	468818
Bromomethane	ETO15	30.00	20	58	ND	ND		09/01/22	22:27	BA	468818
Chloroethane	ETO15	30.00	24	40	ND	ND		09/01/22	22:27	BA	468818
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		09/01/22	22:27	BA	468818
1,1-Dichloroethene	ETO15	30.00	25	60	ND	ND		09/01/22	22:27	BA	468818
Freon 113	ETO15	30.00	31	110	ND	ND		09/01/22	22:27	BA	468818
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		09/01/22	22:27	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		09/01/22	22:27	BA	468818
Methylene Chloride	ETO15	30.00	21	310	ND	ND		09/01/22	22:27	BA	468818
trans-1,2-Dichloroethene	ETO15	30.00	14	59	150	37.88		09/01/22	22:27	BA	468818
MTBE	ETO15	30.00	13	54	ND	ND		09/01/22	22:27	BA	468818
tert-Butanol	ETO15	30.00	19	45	ND	ND		09/01/22	22:27	BA	468818
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		09/01/22	22:27	BA	468818
1,1-Dichloroethane	ETO15	30.00	16	61	120	29.63		09/01/22	22:27	BA	468818
ETBE	ETO15	30.00	9.8	63	ND	ND		09/01/22	22:27	BA	468818
cis-1,2-Dichloroethene	ETO15	30.00	25	59	350	88.38		09/01/22	22:27	BA	468818
Chloroform	ETO15	30.00	29	73	1000	204.92		09/01/22	22:27	BA	468818
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		09/01/22	22:27	BA	468818
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		09/01/22	22:27	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-16	**Lab Sample ID:**	2208230-006A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 11:59	**Certified Clean WO # :**	
Canister/Tube ID:	N3990	**Received PSI :**	12.2
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,1,1-Trichloroethane	ETO15	30.00	24	82	ND	ND		09/01/22	22:27	BA	468818
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		09/01/22	22:27	BA	468818
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		09/01/22	22:27	BA	468818
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		09/01/22	22:27	BA	468818
Benzene	ETO15	30.00	13	48	1800	564.26		09/01/22	22:27	BA	468818
TAME	ETO15	30.00	20	63	ND	ND		09/01/22	22:27	BA	468818
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		09/01/22	22:27	BA	468818
Trichloroethylene	ETO15	30.00	24	81	ND	ND		09/01/22	22:27	BA	468818
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		09/01/22	22:27	BA	468818
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		09/01/22	22:27	BA	468818
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		09/01/22	22:27	BA	468818
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		09/01/22	22:27	BA	468818
Toluene	ETO15	30.00	23	57	ND	ND		09/01/22	22:27	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		09/01/22	22:27	BA	468818
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		09/01/22	22:27	BA	468818
Tetrachloroethylene	ETO15	30.00	44	100	ND	ND		09/01/22	22:27	BA	468818
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		09/01/22	22:27	BA	468818
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		09/01/22	22:27	BA	468818
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		09/01/22	22:27	BA	468818
2-Hexanone	ETO15	30.00	20	62	ND	ND		09/01/22	22:27	BA	468818
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		09/01/22	22:27	BA	468818
Chlorobenzene	ETO15	30.00	18	69	ND	ND		09/01/22	22:27	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/01/22	22:27	BA	468818
m,p-Xylene	ETO15	30.00	29	65	100	23.04		09/01/22	22:27	BA	468818
o-Xylene	ETO15	30.00	9.1	65	79	18.20		09/01/22	22:27	BA	468818
Styrene	ETO15	30.00	14	64	ND	ND		09/01/22	22:27	BA	468818
Bromoform	ETO15	30.00	39	160	ND	ND		09/01/22	22:27	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/01/22	22:27	BA	468818
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		09/01/22	22:27	BA	468818
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		09/01/22	22:27	BA	468818
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		09/01/22	22:27	BA	468818
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		09/01/22	22:27	BA	468818
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		09/01/22	22:27	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-16	**Lab Sample ID:**	2208230-006A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 11:59	**Certified Clean WO # :**	
Canister/Tube ID:	N3990	**Received PSI :**	12.2
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		09/01/22	22:27	BA	468818
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		09/01/22	22:27	BA	468818
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	130	17.52		09/01/22	22:27	BA	468818
Naphthalene	ETO15	30.00	38	79	ND	ND		09/01/22	22:27	BA	468818
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	74 %			09/01/22	22:27	BA	468818

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Acetone	ETO15	120.0	47	1400	3700	1,554.62		09/02/22	11:12	BA	468818
Hexane	ETO15	120.0	56	210	11000	3,125.00		09/02/22	11:12	BA	468818
(S) 4-Bromofluorobenzene	ETO15	120.0	50	150	96 %			09/02/22	11:12	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-19	**Lab Sample ID:**	2208230-007A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 12:42	**Certified Clean WO # :**	
Canister/Tube ID:	8264	**Received PSI :**	11.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22 10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Oxygen	D1946	5.90	0.062	0.30	0.14		J	09/02/22	14:21	BA	468853

NOTE: Low Oxygen likely due to high microbial activity (high concentration of non-target gases).

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22 4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		09/02/22	8:39	BA	468818
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		09/02/22	8:39	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		09/02/22	8:39	BA	468818
Chloromethane	ETO15	30.00	61	120	ND	ND		09/02/22	8:39	BA	468818
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		09/02/22	8:39	BA	468818
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		09/02/22	8:39	BA	468818
Bromomethane	ETO15	30.00	20	58	ND	ND		09/02/22	8:39	BA	468818
Chloroethane	ETO15	30.00	24	40	ND	ND		09/02/22	8:39	BA	468818
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		09/02/22	8:39	BA	468818
1,1-Dichloroethene	ETO15	30.00	25	60	ND	ND		09/02/22	8:39	BA	468818
Freon 113	ETO15	30.00	31	110	ND	ND		09/02/22	8:39	BA	468818
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		09/02/22	8:39	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		09/02/22	8:39	BA	468818
Methylene Chloride	ETO15	30.00	21	310	ND	ND		09/02/22	8:39	BA	468818
Acetone	ETO15	30.00	12	360	ND	ND		09/02/22	8:39	BA	468818
trans-1,2-Dichloroethene	ETO15	30.00	14	59	580	146.46		09/02/22	8:39	BA	468818
Hexane	ETO15	30.00	14	53	630	178.98		09/02/22	8:39	BA	468818
MTBE	ETO15	30.00	13	54	ND	ND		09/02/22	8:39	BA	468818
tert-Butanol	ETO15	30.00	19	45	ND	ND		09/02/22	8:39	BA	468818
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		09/02/22	8:39	BA	468818
1,1-Dichloroethane	ETO15	30.00	16	61	ND	ND		09/02/22	8:39	BA	468818
ETBE	ETO15	30.00	9.8	63	ND	ND		09/02/22	8:39	BA	468818
Chloroform	ETO15	30.00	29	73	250	51.23		09/02/22	8:39	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-19	**Lab Sample ID:**	2208230-007A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 12:42	**Certified Clean WO # :**	
Canister/Tube ID:	8264	**Received PSI :**	11.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		09/02/22	8:39	BA	468818
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		09/02/22	8:39	BA	468818
1,1,1-Trichloroethane	ETO15	30.00	24	82	ND	ND		09/02/22	8:39	BA	468818
2-Butanone (MEK)	ETO15	30.00	12	44	1700	576.27		09/02/22	8:39	BA	468818
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		09/02/22	8:39	BA	468818
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		09/02/22	8:39	BA	468818
Benzene	ETO15	30.00	13	48	ND	ND		09/02/22	8:39	BA	468818
TAME	ETO15	30.00	20	63	ND	ND		09/02/22	8:39	BA	468818
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		09/02/22	8:39	BA	468818
Trichloroethylene	ETO15	30.00	24	81	2900	540.04		09/02/22	8:39	BA	468818
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		09/02/22	8:39	BA	468818
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		09/02/22	8:39	BA	468818
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		09/02/22	8:39	BA	468818
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		09/02/22	8:39	BA	468818
Toluene	ETO15	30.00	23	57	ND	ND		09/02/22	8:39	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		09/02/22	8:39	BA	468818
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		09/02/22	8:39	BA	468818
Tetrachloroethylene	ETO15	30.00	44	100	5200	766.96		09/02/22	8:39	BA	468818
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		09/02/22	8:39	BA	468818
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		09/02/22	8:39	BA	468818
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		09/02/22	8:39	BA	468818
2-Hexanone	ETO15	30.00	20	62	ND	ND		09/02/22	8:39	BA	468818
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		09/02/22	8:39	BA	468818
Chlorobenzene	ETO15	30.00	18	69	ND	ND		09/02/22	8:39	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/02/22	8:39	BA	468818
m,p-Xylene	ETO15	30.00	29	65	ND	ND		09/02/22	8:39	BA	468818
o-Xylene	ETO15	30.00	9.1	65	ND	ND		09/02/22	8:39	BA	468818
Styrene	ETO15	30.00	14	64	ND	ND		09/02/22	8:39	BA	468818
Bromoform	ETO15	30.00	39	160	ND	ND		09/02/22	8:39	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/02/22	8:39	BA	468818
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		09/02/22	8:39	BA	468818
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		09/02/22	8:39	BA	468818
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		09/02/22	8:39	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-19	**Lab Sample ID:**	2208230-007A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 12:42	**Certified Clean WO # :**	
Canister/Tube ID:	8264	**Received PSI :**	11.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		09/02/22	8:39	BA	468818
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		09/02/22	8:39	BA	468818
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		09/02/22	8:39	BA	468818
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		09/02/22	8:39	BA	468818
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		09/02/22	8:39	BA	468818
Naphthalene	ETO15	30.00	38	79	ND	ND		09/02/22	8:39	BA	468818
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	36 %		S	09/02/22	8:39	BA	468818

NOTE: S - Surrogate recovery out of limits and attributed to matrix interference (heavy end hydrocarbons).

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
cis-1,2-Dichloroethene	ETO15	60.00	50	120	4700	1,186.87		09/02/22	9:53	BA	468818
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	65 %			09/02/22	9:53	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-18	**Lab Sample ID:**	2208230-008A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 12:52	**Certified Clean WO # :**	
Canister/Tube ID:	A12194	**Received PSI :**	13.8
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22 10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	4.60	0.049	0.23	0.85			09/02/22	14:52	BA	468853

NOTE: Low Oxygen likely due to high microbial activity (high concentration of non-target gas).

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22 4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		09/02/22	9:04	BA	468818
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		09/02/22	9:04	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		09/02/22	9:04	BA	468818
Chloromethane	ETO15	30.00	61	120	ND	ND		09/02/22	9:04	BA	468818
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		09/02/22	9:04	BA	468818
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		09/02/22	9:04	BA	468818
Bromomethane	ETO15	30.00	20	58	ND	ND		09/02/22	9:04	BA	468818
Chloroethane	ETO15	30.00	24	40	ND	ND		09/02/22	9:04	BA	468818
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		09/02/22	9:04	BA	468818
1,1-Dichloroethene	ETO15	30.00	25	60	ND	ND		09/02/22	9:04	BA	468818
Freon 113	ETO15	30.00	31	110	ND	ND		09/02/22	9:04	BA	468818
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		09/02/22	9:04	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		09/02/22	9:04	BA	468818
Methylene Chloride	ETO15	30.00	21	310	ND	ND		09/02/22	9:04	BA	468818
Acetone	ETO15	30.00	12	360	ND	ND		09/02/22	9:04	BA	468818
trans-1,2-Dichloroethene	ETO15	30.00	14	59	ND	ND		09/02/22	9:04	BA	468818
Hexane	ETO15	30.00	14	53	ND	ND		09/02/22	9:04	BA	468818
MTBE	ETO15	30.00	13	54	ND	ND		09/02/22	9:04	BA	468818
tert-Butanol	ETO15	30.00	19	45	ND	ND		09/02/22	9:04	BA	468818
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		09/02/22	9:04	BA	468818
1,1-Dichloroethane	ETO15	30.00	16	61	ND	ND		09/02/22	9:04	BA	468818
ETBE	ETO15	30.00	9.8	63	ND	ND		09/02/22	9:04	BA	468818
cis-1,2-Dichloroethene	ETO15	30.00	25	59	ND	ND		09/02/22	9:04	BA	468818
Chloroform	ETO15	30.00	29	73	ND	ND		09/02/22	9:04	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-18	**Lab Sample ID:**	2208230-008A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 12:52	**Certified Clean WO # :**	
Canister/Tube ID:	A12194	**Received PSI :**	13.8
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		09/02/22	9:04	BA	468818
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		09/02/22	9:04	BA	468818
1,1,1-Trichloroethane	ETO15	30.00	24	82	270	49.45		09/02/22	9:04	BA	468818
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		09/02/22	9:04	BA	468818
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		09/02/22	9:04	BA	468818
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		09/02/22	9:04	BA	468818
Benzene	ETO15	30.00	13	48	ND	ND		09/02/22	9:04	BA	468818
TAME	ETO15	30.00	20	63	ND	ND		09/02/22	9:04	BA	468818
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		09/02/22	9:04	BA	468818
Trichloroethylene	ETO15	30.00	24	81	ND	ND		09/02/22	9:04	BA	468818
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		09/02/22	9:04	BA	468818
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		09/02/22	9:04	BA	468818
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		09/02/22	9:04	BA	468818
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		09/02/22	9:04	BA	468818
Toluene	ETO15	30.00	23	57	ND	ND		09/02/22	9:04	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		09/02/22	9:04	BA	468818
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		09/02/22	9:04	BA	468818
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		09/02/22	9:04	BA	468818
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		09/02/22	9:04	BA	468818
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		09/02/22	9:04	BA	468818
2-Hexanone	ETO15	30.00	20	62	ND	ND		09/02/22	9:04	BA	468818
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		09/02/22	9:04	BA	468818
Chlorobenzene	ETO15	30.00	18	69	ND	ND		09/02/22	9:04	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/02/22	9:04	BA	468818
m,p-Xylene	ETO15	30.00	29	65	ND	ND		09/02/22	9:04	BA	468818
o-Xylene	ETO15	30.00	9.1	65	ND	ND		09/02/22	9:04	BA	468818
Styrene	ETO15	30.00	14	64	ND	ND		09/02/22	9:04	BA	468818
Bromoform	ETO15	30.00	39	160	ND	ND		09/02/22	9:04	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/02/22	9:04	BA	468818
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		09/02/22	9:04	BA	468818
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		09/02/22	9:04	BA	468818
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		09/02/22	9:04	BA	468818
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		09/02/22	9:04	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-18	**Lab Sample ID:**	2208230-008A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 12:52	**Certified Clean WO # :**	
Canister/Tube ID:	A12194	**Received PSI :**	13.8
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		09/02/22	9:04	BA	468818
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		09/02/22	9:04	BA	468818
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		09/02/22	9:04	BA	468818
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		09/02/22	9:04	BA	468818
Naphthalene	ETO15	30.00	38	79	ND	ND		09/02/22	9:04	BA	468818
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	92 %			09/02/22	9:04	BA	468818

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Tetrachloroethylene	ETO15	60.00	87	200	15000	2,212.39		09/02/22	10:17	BA	468818
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	90 %			09/02/22	10:17	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-10	**Lab Sample ID:**	2208230-009A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 13:45	**Certified Clean WO # :**	
Canister/Tube ID:	A7568	**Received PSI :**	13.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22 10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	4.40	0.046	0.22	15			09/02/22	15:28	BA	468853

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22 4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	2.00	3.1	5.0	ND	ND		09/02/22	10:47	BA	468818
1,1-Difluoroethane	ETO15	2.00	0.69	27	ND	ND		09/02/22	10:47	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	2.00	2.8	7.0	ND	ND		09/02/22	10:47	BA	468818
Chloromethane	ETO15	2.00	4.1	8.3	ND	ND		09/02/22	10:47	BA	468818
Vinyl Chloride	ETO15	2.00	0.45	2.6	ND	ND		09/02/22	10:47	BA	468818
1,3-Butadiene	ETO15	2.00	0.68	2.2	ND	ND		09/02/22	10:47	BA	468818
Bromomethane	ETO15	2.00	1.3	3.9	ND	ND		09/02/22	10:47	BA	468818
Chloroethane	ETO15	2.00	1.6	2.6	ND	ND		09/02/22	10:47	BA	468818
Trichlorofluoromethane	ETO15	2.00	1.1	5.6	ND	ND		09/02/22	10:47	BA	468818
1,1-Dichloroethene	ETO15	2.00	1.7	4.0	ND	ND		09/02/22	10:47	BA	468818
Freon 113	ETO15	2.00	2.0	7.7	ND	ND		09/02/22	10:47	BA	468818
Carbon Disulfide	ETO15	2.00	0.75	3.1	23	7.40		09/02/22	10:47	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	2.00	2.6	25	ND	ND		09/02/22	10:47	BA	468818
Methylene Chloride	ETO15	2.00	1.4	21	ND	ND		09/02/22	10:47	BA	468818
Acetone	ETO15	2.00	0.79	24	120	50.42		09/02/22	10:47	BA	468818
trans-1,2-Dichloroethene	ETO15	2.00	0.95	4.0	ND	ND		09/02/22	10:47	BA	468818
Hexane	ETO15	2.00	0.93	3.5	ND	ND		09/02/22	10:47	BA	468818
MTBE	ETO15	2.00	0.89	3.6	ND	ND		09/02/22	10:47	BA	468818
tert-Butanol	ETO15	2.00	1.2	3.0	16	5.28		09/02/22	10:47	BA	468818
Diisopropyl ether (DIPE)	ETO15	2.00	1.5	4.2	ND	ND		09/02/22	10:47	BA	468818
1,1-Dichloroethane	ETO15	2.00	1.1	4.1	ND	ND		09/02/22	10:47	BA	468818
ETBE	ETO15	2.00	0.65	4.2	ND	ND		09/02/22	10:47	BA	468818
cis-1,2-Dichloroethene	ETO15	2.00	1.7	4.0	ND	ND		09/02/22	10:47	BA	468818
Chloroform	ETO15	2.00	1.9	4.9	ND	ND		09/02/22	10:47	BA	468818
Vinyl Acetate	ETO15	2.00	1.5	3.5	ND	ND		09/02/22	10:47	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-10	**Lab Sample ID:**	2208230-009A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 13:45	**Certified Clean WO # :**	
Canister/Tube ID:	A7568	**Received PSI :**	13.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Carbon Tetrachloride	ETO15	2.00	2.2	6.3	7.6	1.21		09/02/22	10:47	BA	468818
1,1,1-Trichloroethane	ETO15	2.00	1.6	5.5	22	4.03		09/02/22	10:47	BA	468818
2-Butanone (MEK)	ETO15	2.00	0.78	3.0	14	4.75		09/02/22	10:47	BA	468818
Ethyl Acetate	ETO15	2.00	0.95	3.6	ND	ND		09/02/22	10:47	BA	468818
Tetrahydrofuran	ETO15	2.00	0.90	3.0	ND	ND		09/02/22	10:47	BA	468818
Benzene	ETO15	2.00	0.87	3.2	5.0	1.57		09/02/22	10:47	BA	468818
TAME	ETO15	2.00	1.3	4.2	ND	ND		09/02/22	10:47	BA	468818
1,2-Dichloroethane (EDC)	ETO15	2.00	0.84	4.1	ND	ND		09/02/22	10:47	BA	468818
Trichloroethylene	ETO15	2.00	1.6	5.4	140	26.07		09/02/22	10:47	BA	468818
1,2-Dichloropropane	ETO15	2.00	1.5	4.6	ND	ND		09/02/22	10:47	BA	468818
Bromodichloromethane	ETO15	2.00	1.5	6.7	ND	ND		09/02/22	10:47	BA	468818
1,4-Dioxane	ETO15	2.00	3.6	7.2	ND	ND		09/02/22	10:47	BA	468818
trans-1,3-Dichloropropene	ETO15	2.00	2.1	4.5	ND	ND		09/02/22	10:47	BA	468818
Toluene	ETO15	2.00	1.5	3.8	12	3.18		09/02/22	10:47	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	2.00	1.5	4.1	ND	ND		09/02/22	10:47	BA	468818
cis-1,3-Dichloropropene	ETO15	2.00	0.84	4.5	ND	ND		09/02/22	10:47	BA	468818
Tetrachloroethylene	ETO15	2.00	2.9	6.8	410	60.47		09/02/22	10:47	BA	468818
1,1,2-Trichloroethane	ETO15	2.00	1.2	5.5	6.1	1.12		09/02/22	10:47	BA	468818
Dibromochloromethane	ETO15	2.00	2.2	8.5	ND	ND		09/02/22	10:47	BA	468818
1,2-Dibromoethane (EDB)	ETO15	2.00	1.5	7.7	ND	ND		09/02/22	10:47	BA	468818
2-Hexanone	ETO15	2.00	1.3	4.1	ND	ND		09/02/22	10:47	BA	468818
Ethyl Benzene	ETO15	2.00	1.3	4.3	ND	ND		09/02/22	10:47	BA	468818
Chlorobenzene	ETO15	2.00	1.2	4.6	ND	ND		09/02/22	10:47	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	2.00	1.7	6.9	ND	ND		09/02/22	10:47	BA	468818
m,p-Xylene	ETO15	2.00	2.0	4.3	ND	ND		09/02/22	10:47	BA	468818
o-Xylene	ETO15	2.00	0.61	4.3	ND	ND		09/02/22	10:47	BA	468818
Styrene	ETO15	2.00	0.93	4.3	ND	ND		09/02/22	10:47	BA	468818
Bromoform	ETO15	2.00	2.6	10	ND	ND		09/02/22	10:47	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	2.00	1.6	6.9	ND	ND		09/02/22	10:47	BA	468818
4-Ethyl Toluene	ETO15	2.00	1.1	4.9	ND	ND		09/02/22	10:47	BA	468818
1,3,5-Trimethylbenzene	ETO15	2.00	0.60	4.9	ND	ND		09/02/22	10:47	BA	468818
1,2,4-Trimethylbenzene	ETO15	2.00	1.2	4.9	ND	ND		09/02/22	10:47	BA	468818
1,4-Dichlorobenzene	ETO15	2.00	1.5	6.0	ND	ND		09/02/22	10:47	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-10	**Lab Sample ID:**	2208230-009A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 13:45	**Certified Clean WO # :**	
Canister/Tube ID:	A7568	**Received PSI :**	13.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,3-Dichlorobenzene	ETO15	2.00	2.7	6.0	ND	ND		09/02/22	10:47	BA	468818
1,2-Dichlorobenzene	ETO15	2.00	2.1	6.0	ND	ND		09/02/22	10:47	BA	468818
Hexachlorobutadiene	ETO15	2.00	3.7	11	ND	ND		09/02/22	10:47	BA	468818
1,2,4-Trichlorobenzene	ETO15	2.00	4.3	7.4	ND	ND		09/02/22	10:47	BA	468818
Naphthalene	ETO15	2.00	2.5	5.2	ND	ND		09/02/22	10:47	BA	468818
(S) 4-Bromofluorobenzene	ETO15	2.00	50	150	91 %			09/02/22	10:47	BA	468818

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2208230	**Prep Method:**	TO15-P	**Prep Date:**	09/01/22	**Prep Batch:**	1144571
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	9/1/2022	**Analytical Batch:**	468818
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.32	0.50	ND	
1,1-Difluoroethane	0.13	5.0	ND	
1,2-Dichlorotetrafluoroethane	0.20	0.50	ND	
Chloromethane	0.99	2.0	ND	
Vinyl Chloride	0.088	0.50	ND	
1,3-Butadiene	0.15	0.50	ND	
Bromomethane	0.17	0.50	ND	
Chloroethane	0.31	0.50	ND	
Trichlorofluoromethane	0.099	0.50	ND	
1,1-Dichloroethene	0.21	0.50	ND	
Freon 113	0.13	0.50	ND	
Carbon Disulfide	0.12	0.50	ND	
2-Propanol (Isopropyl Alcohol)	0.52	5.0	ND	
Methylene Chloride	0.20	3.0	ND	
Acetone	0.17	5.0	ND	
trans-1,2-Dichloroethene	0.12	0.50	ND	
Hexane	0.13	0.50	ND	
MTBE	0.12	0.50	ND	
tert-Butanol	0.20	0.50	ND	
Diisopropyl ether (DIPE)	0.18	0.50	ND	
1,1-Dichloroethane	0.13	0.50	ND	
ETBE	0.078	0.50	ND	
cis-1,2-Dichloroethene	0.21	0.50	ND	
Chloroform	0.20	0.50	ND	
Vinyl Acetate	0.22	0.50	ND	
Carbon Tetrachloride	0.18	0.50	ND	
1,1,1-Trichloroethane	0.15	0.50	ND	
2-Butanone (MEK)	0.13	0.50	ND	
Ethyl Acetate	0.13	0.50	ND	
Tetrahydrofuran	0.15	0.50	ND	
Benzene	0.14	0.50	ND	
TAME	0.16	0.50	ND	
1,2-Dichloroethane (EDC)	0.10	0.50	ND	
Trichloroethylene	0.15	0.50	ND	
1,2-Dichloropropane	0.17	0.50	ND	
Bromodichloromethane	0.11	0.50	ND	
1,4-Dioxane	0.50	1.0	ND	
trans-1,3-Dichloropropene	0.23	0.50	ND	
Toluene	0.20	0.50	ND	
4-Methyl-2-Pentanone (MIBK)	0.18	0.50	ND	
cis-1,3-Dichloropropene	0.093	0.50	ND	
Tetrachloroethylene	0.22	0.50	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	2208230	**Prep Method:**	TO15-P	**Prep Date:**	09/01/22	**Prep Batch:**	1144571
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	9/1/2022	**Analytical Batch:**	468818
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
1,1,2-Trichloroethane	0.11	0.50	ND	
Dibromochloromethane	0.13	0.50	ND	
1,2-Dibromoethane (EDB)	0.096	0.50	ND	
2-Hexanone	0.16	0.50	ND	
Ethyl Benzene	0.15	0.50	ND	
Chlorobenzene	0.13	0.50	ND	
1,1,1,2-Tetrachloroethane	0.12	0.50	ND	
m,p-Xylene	0.23	0.50	ND	
o-Xylene	0.070	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.13	0.50	ND	
1,1,2,2-Tetrachloroethane	0.12	0.50	ND	
4-Ethyl Toluene	0.11	0.50	ND	
1,3,5-Trimethylbenzene	0.061	0.50	ND	
1,2,4-Trimethylbenzene	0.12	0.50	ND	
1,4-Dichlorobenzene	0.12	0.50	ND	
1,3-Dichlorobenzene	0.22	0.50	ND	
1,2-Dichlorobenzene	0.18	0.50	ND	
Hexachlorobutadiene	0.17	0.50	ND	
1,2,4-Trichlorobenzene	0.29	0.50	ND	
Naphthalene	0.24	0.50	ND	
Cyclohexane	0.50	0.50	ND	
Benzyl Chloride	0.20	0.50	ND	
Heptane	0.13	0.50	ND	
(S) 4-Bromofluorobenzene			88	

Work Order:	2208230	**Prep Method:**	FG-P	**Prep Date:**	09/02/22	**Prep Batch:**	1144606
Matrix:	Air	**Analytical Method:**	D1946	**Analyzed Date:**	9/2/2022	**Analytical Batch:**	468853
Units:	ppmv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Oxygen	110	500	ND	

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2208230	**Prep Method:**	TO15-P	**Prep Date:**	09/01/22	**Prep Batch:**	1144571
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	9/1/2022	**Analytical Batch:**	468818
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.21	0.50	ND	8.00	108	111	3.08	65 - 135	30	
Benzene	0.14	0.50	ND	8.00	93.3	95.7	2.65	65 - 135	30	
Trichloroethylene	0.15	0.50	ND	8.00	101	100	0.991	65 - 135	30	
Toluene	0.20	0.50	ND	8.00	88.3	91.5	3.62	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	87.7	91.5	4.18	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	88.4	89.9		50 - 150		

Work Order:	2208230	**Prep Method:**	FG-P	**Prep Date:**	09/02/22	**Prep Batch:**	1144606
Matrix:	Air	**Analytical Method:**	D1946	**Analyzed Date:**	9/2/2022	**Analytical Batch:**	468853
Units:	ppmv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Oxygen	110	500	ND	2500	113	92.9	19.8	65 - 135	30	

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg/m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Project Name: 38600 Cedar Blvd

Work Order No.: 2208230

Date and Time Received: 8/26/2022 2:48:00PM

Received By: Lorna Imbat

Physically Logged By: Lorna Imbat

Checklist Completed By: Lorna Imbat

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	Yes
Custody seals intact on sample bottles?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes
Container/Temp Blank temperature in compliance?	Temperature: °C
Water-VOA vials have zero headspace?	No VOA vials submitted
Water-pH acceptable upon receipt?	N/A

pH Checked by: n/a

pH Adjusted by: n/a

Comments:

Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: 38600 Cedar Blvd
Project # : 15799.004.000
Report Due Date: 9/2/2022

QC Level: II
TAT Requested: 5+ day:5
Date Received: 8/26/2022
Time Received: 2:48 pm

Comments:

Work Order # : ***2208230***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
2208230-001A	SG-20	08/23/22 13:33	Air				VOC_A_TO15 VOC_A_FG D1946	
Sample Note:	TO15 & O2							
2208230-002A	SG-21	08/23/22 13:49	Air				VOC_A_TO15 VOC_A_FG D1946	
2208230-003A	SG-15	08/26/22 10:21	Air				VOC_A_TO15 VOC_A_FG D1946	
2208230-004A	SG-14	08/26/22 10:29	Air				VOC_A_TO15 VOC_A_FG D1946	
2208230-005A	SG-17	08/26/22 11:51	Air				VOC_A_TO15 VOC_A_FG D1946	
2208230-006A	SG-16	08/26/22 11:59	Air				VOC_A_TO15 VOC_A_FG D1946	
2208230-007A	SG-19	08/26/22 12:42	Air				VOC_A_TO15 VOC_A_FG D1946	
2208230-008A	SG-18	08/26/22 12:52	Air				VOC_A_FG D1946 VOC_A_TO15	
2208230-009A	SG-10	08/26/22 13:45	Air				VOC_A_TO15 VOC_A_FG D1946	

Torrent LABORATORY, INC.

2208230

CHAIN OF CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME
15799.004.000	38600 Cedar Boulevard

SAMPLED BY: (SIGNATURE/PRINT) Monica Kunzel

PROJECT MANAGER: (SIGNATURE/PRINT) Monica Kunzel

ROUTING: E-MAIL ~~HARD COPY~~ MKUNZEL@ENGEO.COM

SAMPLE NUMBER	DATE	TIME	CANISTER #	FLOW REGULATOR ID	START TIME	START VACUUM	END TIME	END VACUUM	VOCs (TO-15)	Fixed Gases (ASTMd 1946) O_2 ONLY	TPH-g (TO-15)									REMARKS REQUIRED DETECTION LIMITS
SG-20	8.23.22	1:25	6116	DG-63	1:28	-27 Hg	1:33	-5 Hg	X	X			-001A							* Fixed gas O^2 only for all samples
SG-21	8.23.22	1:40	A12221	DG-8	1:40	-29 Hg	1:49	-5 Hg	X	X			-002A							
SG-15	8.26.22	9:40	8348	DG-41	10:15	-28 Hg	10:21	-5 Hg	X	X			-003A							
SG-14	8.26.22	9:56	N3966	DE-66	10:23	-27 Hg	10:29	-5 Hg	X	X			-004A							
SG-17	8.26.22	10:17	A7558	DG-55	11:38	-28 Hg	11:51	-5 Hg	X	X			-005A							
SG-16	8.26.22	11:26	N3990	DE-70	11:47	-28 Hg	11:59	-4 Hg	X	X			-006A							
SG-19	8.26.22	12:12	8264	DG-72	12:34	-27 Hg	12:42	-5 Hg	X	X			-007A							
SG-18	8.26.22	12:21	A12294	DE-67	12:48	-30 Hg	12:52	-5 Hg	X	X			-008A							
SG-10	8.26.22	12:48	A7568	DG 93	1:40	-28 Hg	1:45	-5 Hg	X	X			-009A							

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
MONICA KUNZEL	8.26.2022 2:40 PM	TAMMY T.			
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	8/26/2022 2:48				
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	DATE/TIME	REMARKS: STANDARD TAT; Fixed gas O_2 ONLY; Leak Check Compound used: DFA	

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT, COPY TO PROJE

ENGEO INCORPORATED

2010 CROW CANYON PLACE SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (888) 279-2698
WWW.ENGEO.COM

Drop off

Read canister @ ambient temp

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/05/22, 6:00 pm
Date Reported: 08/12/22

Client Sample ID:	SG-5 @ 6'	**Lab Sample ID:**	2208064-001A
Project Name/Location:	Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/05/22 / 15:10	**Certified Clean WO # :**	
Canister/Tube ID:	R3597	**Received PSI :**	10.4
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	8/25/22 4:30:00PM
Prep Batch ID:	1144543	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	2.40	0.025	0.12	11			08/25/22	17:54	BA	468795

Prep Method:	TO15-P	**Prep Batch Date/Time:**	8/8/22 1:30:00PM
Prep Batch ID:	1143938	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		08/08/22	19:34	BA	468228
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		08/08/22	19:34	BA	468228
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		08/08/22	19:34	BA	468228
Chloromethane	ETO15	30.00	61	120	ND	ND		08/08/22	19:34	BA	468228
Vinyl Chloride	ETO15	30.00	6.8	38	1900	742.19		08/08/22	19:34	BA	468228
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		08/08/22	19:34	BA	468228
Bromomethane	ETO15	30.00	20	58	ND	ND		08/08/22	19:34	BA	468228
Chloroethane	ETO15	30.00	24	40	ND	ND		08/08/22	19:34	BA	468228
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		08/08/22	19:34	BA	468228
1,1-Dichloroethene	ETO15	30.00	25	60	350	88.16		08/08/22	19:34	BA	468228
Freon 113	ETO15	30.00	31	110	ND	ND		08/08/22	19:34	BA	468228
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		08/08/22	19:34	BA	468228
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		08/08/22	19:34	BA	468228
Methylene Chloride	ETO15	30.00	21	310	ND	ND		08/08/22	19:34	BA	468228
Acetone	ETO15	30.00	12	360	ND	ND		08/08/22	19:34	BA	468228
trans-1,2-Dichloroethene	ETO15	30.00	14	59	74	18.69		08/08/22	19:34	BA	468228
Hexane	ETO15	30.00	14	53	110	31.25		08/08/22	19:34	BA	468228
MTBE	ETO15	30.00	13	54	ND	ND		08/08/22	19:34	BA	468228
tert-Butanol	ETO15	30.00	19	45	ND	ND		08/08/22	19:34	BA	468228
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		08/08/22	19:34	BA	468228
1,1-Dichloroethane	ETO15	30.00	16	61	6900	1,703.70		08/08/22	19:34	BA	468228
ETBE	ETO15	30.00	9.8	63	ND	ND		08/08/22	19:34	BA	468228
Chloroform	ETO15	30.00	29	73	ND	ND		08/08/22	19:34	BA	468228
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		08/08/22	19:34	BA	468228
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		08/08/22	19:34	BA	468228
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		08/08/22	19:34	BA	468228
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		08/08/22	19:34	BA	468228
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		08/08/22	19:34	BA	468228
Benzene	ETO15	30.00	13	48	280	87.77		08/08/22	19:34	BA	468228

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/05/22, 6:00 pm
Date Reported: 08/12/22

Client Sample ID:	SG-5 @ 6'	**Lab Sample ID:**	2208064-001A
Project Name/Location:	Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/05/22 / 15:10	**Certified Clean WO # :**	
Canister/Tube ID:	R3597	**Received PSI :**	10.4
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	8/8/22	1:30:00PM
Prep Batch ID:	1143938	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TAME	ETO15	30.00	20	63	ND	ND		08/08/22	19:34	BA	468228
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		08/08/22	19:34	BA	468228
Trichloroethylene	ETO15	30.00	24	81	10000	1,862.20	E	08/08/22	19:34	BA	468228
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		08/08/22	19:34	BA	468228
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		08/08/22	19:34	BA	468228
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		08/08/22	19:34	BA	468228
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		08/08/22	19:34	BA	468228
Toluene	ETO15	30.00	23	57	ND	ND		08/08/22	19:34	BA	468228
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		08/08/22	19:34	BA	468228
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		08/08/22	19:34	BA	468228
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		08/08/22	19:34	BA	468228
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		08/08/22	19:34	BA	468228
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		08/08/22	19:34	BA	468228
2-Hexanone	ETO15	30.00	20	62	ND	ND		08/08/22	19:34	BA	468228
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		08/08/22	19:34	BA	468228
Chlorobenzene	ETO15	30.00	18	69	ND	ND		08/08/22	19:34	BA	468228
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		08/08/22	19:34	BA	468228
m,p-Xylene	ETO15	30.00	29	65	ND	ND		08/08/22	19:34	BA	468228
o-Xylene	ETO15	30.00	9.1	65	ND	ND		08/08/22	19:34	BA	468228
Styrene	ETO15	30.00	14	64	ND	ND		08/08/22	19:34	BA	468228
Bromoform	ETO15	30.00	39	160	ND	ND		08/08/22	19:34	BA	468228
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		08/08/22	19:34	BA	468228
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		08/08/22	19:34	BA	468228
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		08/08/22	19:34	BA	468228
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		08/08/22	19:34	BA	468228
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		08/08/22	19:34	BA	468228
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		08/08/22	19:34	BA	468228
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		08/08/22	19:34	BA	468228
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		08/08/22	19:34	BA	468228
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		08/08/22	19:34	BA	468228
Naphthalene	ETO15	30.00	38	79	ND	ND		08/08/22	19:34	BA	468228
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	58 %			08/08/22	19:34	BA	468228

Prep Method:	TO15-P	**Prep Batch Date/Time:**	8/10/22	11:33:00AM
Prep Batch ID:	1143980	**Prep Analyst:**	BPATEL	

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/05/22, 6:00 pm
Date Reported: 08/12/22

Client Sample ID:	SG-5 @ 6'	**Lab Sample ID:**	2208064-001A
Project Name/Location:	Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/05/22 / 15:10	**Certified Clean WO # :**	
Canister/Tube ID:	R3597	**Received PSI :**	10.4
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	8/10/22	11:33:00AM
Prep Batch ID:	1143980	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
cis-1,2-Dichloroethene	ETO15	240.0	200	480	31000	7,828.28		08/10/22	21:45	BA	468265
1,1,1-Trichloroethane	ETO15	240.0	190	660	11000	2,014.65		08/10/22	21:45	BA	468265
Tetrachloroethylene	ETO15	240.0	350	810	47000	6,932.15		08/10/22	21:45	BA	468265
(S) 4-Bromofluorobenzene	ETO15	240.0	50	150	91 %			08/10/22	21:45	BA	468265

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/05/22, 6:00 pm
Date Reported: 08/12/22

Client Sample ID:	SG-5 @ 10'	**Lab Sample ID:**	2208064-002A
Project Name/Location:	Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/05/22 / 15:15	**Certified Clean WO # :**	
Canister/Tube ID:	A12298	**Received PSI :**	11.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method: FG-P **Prep Batch Date/Time:** 8/25/22 4:30:00PM
Prep Batch ID: 1144543 **Prep Analyst:** BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	2.40	0.025	0.12	7.4			08/25/22	18:48	BA	468795

Prep Method: TO15-P **Prep Batch Date/Time:** 8/8/22 1:30:00PM
Prep Batch ID: 1143938 **Prep Analyst:** BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		08/08/22	19:59	BA	468228
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		08/08/22	19:59	BA	468228
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		08/08/22	19:59	BA	468228
Chloromethane	ETO15	30.00	61	120	ND	ND		08/08/22	19:59	BA	468228
Vinyl Chloride	ETO15	30.00	6.8	38	2100	820.31		08/08/22	19:59	BA	468228
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		08/08/22	19:59	BA	468228
Bromomethane	ETO15	30.00	20	58	ND	ND		08/08/22	19:59	BA	468228
Chloroethane	ETO15	30.00	24	40	ND	ND		08/08/22	19:59	BA	468228
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		08/08/22	19:59	BA	468228
1,1-Dichloroethene	ETO15	30.00	25	60	310	78.09		08/08/22	19:59	BA	468228
Freon 113	ETO15	30.00	31	110	ND	ND		08/08/22	19:59	BA	468228
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		08/08/22	19:59	BA	468228
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		08/08/22	19:59	BA	468228
Methylene Chloride	ETO15	30.00	21	310	ND	ND		08/08/22	19:59	BA	468228
Acetone	ETO15	30.00	12	360	ND	ND		08/08/22	19:59	BA	468228
trans-1,2-Dichloroethene	ETO15	30.00	14	59	86	21.72		08/08/22	19:59	BA	468228
Hexane	ETO15	30.00	14	53	150	42.61		08/08/22	19:59	BA	468228
MTBE	ETO15	30.00	13	54	ND	ND		08/08/22	19:59	BA	468228
tert-Butanol	ETO15	30.00	19	45	ND	ND		08/08/22	19:59	BA	468228
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		08/08/22	19:59	BA	468228
1,1-Dichloroethane	ETO15	30.00	16	61	5500	1,358.02		08/08/22	19:59	BA	468228
ETBE	ETO15	30.00	9.8	63	ND	ND		08/08/22	19:59	BA	468228
Chloroform	ETO15	30.00	29	73	ND	ND		08/08/22	19:59	BA	468228
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		08/08/22	19:59	BA	468228
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		08/08/22	19:59	BA	468228
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		08/08/22	19:59	BA	468228
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		08/08/22	19:59	BA	468228
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		08/08/22	19:59	BA	468228
Benzene	ETO15	30.00	13	48	310	97.18		08/08/22	19:59	BA	468228

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/05/22, 6:00 pm
Date Reported: 08/12/22

Client Sample ID:	SG-5 @ 10'	**Lab Sample ID:**	2208064-002A
Project Name/Location:	Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/05/22 / 15:15	**Certified Clean WO # :**	
Canister/Tube ID:	A12298	**Received PSI :**	11.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	8/8/22	1:30:00PM
Prep Batch ID:	1143938	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TAME	ETO15	30.00	20	63	ND	ND		08/08/22	19:59	BA	468228
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		08/08/22	19:59	BA	468228
Trichloroethylene	ETO15	30.00	24	81	9200	1,713.22		08/08/22	19:59	BA	468228
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		08/08/22	19:59	BA	468228
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		08/08/22	19:59	BA	468228
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		08/08/22	19:59	BA	468228
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		08/08/22	19:59	BA	468228
Toluene	ETO15	30.00	23	57	140	37.14		08/08/22	19:59	BA	468228
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		08/08/22	19:59	BA	468228
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		08/08/22	19:59	BA	468228
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		08/08/22	19:59	BA	468228
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		08/08/22	19:59	BA	468228
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		08/08/22	19:59	BA	468228
2-Hexanone	ETO15	30.00	20	62	ND	ND		08/08/22	19:59	BA	468228
Ethyl Benzene	ETO15	30.00	19	65	160	36.87		08/08/22	19:59	BA	468228
Chlorobenzene	ETO15	30.00	18	69	ND	ND		08/08/22	19:59	BA	468228
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		08/08/22	19:59	BA	468228
m,p-Xylene	ETO15	30.00	29	65	700	161.29		08/08/22	19:59	BA	468228
o-Xylene	ETO15	30.00	9.1	65	670	154.38		08/08/22	19:59	BA	468228
Styrene	ETO15	30.00	14	64	ND	ND		08/08/22	19:59	BA	468228
Bromoform	ETO15	30.00	39	160	ND	ND		08/08/22	19:59	BA	468228
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		08/08/22	19:59	BA	468228
4-Ethyl Toluene	ETO15	30.00	16	74	140	28.46		08/08/22	19:59	BA	468228
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	180	36.59		08/08/22	19:59	BA	468228
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	400	81.30		08/08/22	19:59	BA	468228
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		08/08/22	19:59	BA	468228
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		08/08/22	19:59	BA	468228
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		08/08/22	19:59	BA	468228
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		08/08/22	19:59	BA	468228
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		08/08/22	19:59	BA	468228
Naphthalene	ETO15	30.00	38	79	ND	ND		08/08/22	19:59	BA	468228
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	41 %		S	08/08/22	19:59	BA	468228

NOTE: S - Surrogate recovery out of limits and attributed to matrix interference (heavy end hydrocarbons).

Prep Method:	TO15-P	**Prep Batch Date/Time:**	8/10/22	11:33:00AM
Prep Batch ID:	1143980	**Prep Analyst:**	BPATEL	

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/05/22, 6:00 pm
Date Reported: 08/12/22

Client Sample ID:	SG-5 @ 10'	**Lab Sample ID:**	2208064-002A
Project Name/Location:	Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/05/22 / 15:15	**Certified Clean WO # :**	
Canister/Tube ID:	A12298	**Received PSI :**	11.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	8/10/22	11:33:00AM
Prep Batch ID:	1143980	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
cis-1,2-Dichloroethene	ETO15	240.0	200	480	33000	8,333.33		08/10/22	22:09	BA	468265
1,1,1-Trichloroethane	ETO15	240.0	190	660	10000	1,831.50		08/10/22	22:09	BA	468265
Tetrachloroethylene	ETO15	240.0	350	810	45000	6,637.17		08/10/22	22:09	BA	468265
(S) 4-Bromofluorobenzene	ETO15	240.0	50	150	94 %			08/10/22	22:09	BA	468265

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-20	**Lab Sample ID:**	2208230-001A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/23/22 / 13:33	**Certified Clean WO # :**	
Canister/Tube ID:	6116	**Received PSI :**	11.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22 10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	6.80	0.072	0.34	4.7			09/02/22	10:24	BA	468853

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22 4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	10.00	16	25	ND	ND		09/02/22	6:18	BA	468818
1,1-Difluoroethane	ETO15	10.00	3.5	140	ND	ND		09/02/22	6:18	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	10.00	14	35	ND	ND		09/02/22	6:18	BA	468818
Chloromethane	ETO15	10.00	20	41	ND	ND		09/02/22	6:18	BA	468818
Vinyl Chloride	ETO15	10.00	2.3	13	ND	ND		09/02/22	6:18	BA	468818
1,3-Butadiene	ETO15	10.00	3.4	11	ND	ND		09/02/22	6:18	BA	468818
Bromomethane	ETO15	10.00	6.6	19	ND	ND		09/02/22	6:18	BA	468818
Chloroethane	ETO15	10.00	8.1	13	ND	ND		09/02/22	6:18	BA	468818
Trichlorofluoromethane	ETO15	10.00	5.6	28	ND	ND		09/02/22	6:18	BA	468818
1,1-Dichloroethene	ETO15	10.00	8.3	20	ND	ND		09/02/22	6:18	BA	468818
Freon 113	ETO15	10.00	10	38	ND	ND		09/02/22	6:18	BA	468818
Carbon Disulfide	ETO15	10.00	3.7	16	ND	ND		09/02/22	6:18	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	10.00	13	120	ND	ND		09/02/22	6:18	BA	468818
Methylene Chloride	ETO15	10.00	7.0	100	ND	ND		09/02/22	6:18	BA	468818
Acetone	ETO15	10.00	4.0	120	ND	ND		09/02/22	6:18	BA	468818
trans-1,2-Dichloroethene	ETO15	10.00	4.8	20	ND	ND		09/02/22	6:18	BA	468818
Hexane	ETO15	10.00	4.6	18	ND	ND		09/02/22	6:18	BA	468818
MTBE	ETO15	10.00	4.4	18	ND	ND		09/02/22	6:18	BA	468818
tert-Butanol	ETO15	10.00	6.2	15	ND	ND		09/02/22	6:18	BA	468818
Diisopropyl ether (DIPE)	ETO15	10.00	7.4	21	ND	ND		09/02/22	6:18	BA	468818
1,1-Dichloroethane	ETO15	10.00	5.4	20	ND	ND		09/02/22	6:18	BA	468818
ETBE	ETO15	10.00	3.3	21	ND	ND		09/02/22	6:18	BA	468818
cis-1,2-Dichloroethene	ETO15	10.00	8.3	20	ND	ND		09/02/22	6:18	BA	468818
Chloroform	ETO15	10.00	9.7	24	ND	ND		09/02/22	6:18	BA	468818
Vinyl Acetate	ETO15	10.00	7.6	18	ND	ND		09/02/22	6:18	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-20	**Lab Sample ID:**	2208230-001A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/23/22 / 13:33	**Certified Clean WO # :**	
Canister/Tube ID:	6116	**Received PSI :**	11.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Carbon Tetrachloride	ETO15	10.00	11	31	ND	ND		09/02/22	6:18	BA	468818
1,1,1-Trichloroethane	ETO15	10.00	7.9	27	63	11.54		09/02/22	6:18	BA	468818
2-Butanone (MEK)	ETO15	10.00	3.9	15	ND	ND		09/02/22	6:18	BA	468818
Ethyl Acetate	ETO15	10.00	4.8	18	ND	ND		09/02/22	6:18	BA	468818
Tetrahydrofuran	ETO15	10.00	4.5	15	ND	ND		09/02/22	6:18	BA	468818
Benzene	ETO15	10.00	4.4	16	ND	ND		09/02/22	6:18	BA	468818
TAME	ETO15	10.00	6.7	21	ND	ND		09/02/22	6:18	BA	468818
1,2-Dichloroethane (EDC)	ETO15	10.00	4.2	20	ND	ND		09/02/22	6:18	BA	468818
Trichloroethylene	ETO15	10.00	8.1	27	460	85.66		09/02/22	6:18	BA	468818
1,2-Dichloropropane	ETO15	10.00	7.6	23	ND	ND		09/02/22	6:18	BA	468818
Bromodichloromethane	ETO15	10.00	7.4	34	ND	ND		09/02/22	6:18	BA	468818
1,4-Dioxane	ETO15	10.00	18	36	ND	ND		09/02/22	6:18	BA	468818
trans-1,3-Dichloropropene	ETO15	10.00	11	23	ND	ND		09/02/22	6:18	BA	468818
Toluene	ETO15	10.00	7.5	19	ND	ND		09/02/22	6:18	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	10.00	7.5	21	ND	ND		09/02/22	6:18	BA	468818
cis-1,3-Dichloropropene	ETO15	10.00	4.2	23	ND	ND		09/02/22	6:18	BA	468818
Tetrachloroethylene	ETO15	10.00	15	34	2700	398.23		09/02/22	6:18	BA	468818
1,1,2-Trichloroethane	ETO15	10.00	5.8	27	ND	ND		09/02/22	6:18	BA	468818
Dibromochloromethane	ETO15	10.00	11	43	ND	ND		09/02/22	6:18	BA	468818
1,2-Dibromoethane (EDB)	ETO15	10.00	7.4	38	ND	ND		09/02/22	6:18	BA	468818
2-Hexanone	ETO15	10.00	6.5	21	ND	ND		09/02/22	6:18	BA	468818
Ethyl Benzene	ETO15	10.00	6.3	22	ND	ND		09/02/22	6:18	BA	468818
Chlorobenzene	ETO15	10.00	6.0	23	ND	ND		09/02/22	6:18	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	10.00	8.4	34	ND	ND		09/02/22	6:18	BA	468818
m,p-Xylene	ETO15	10.00	9.8	22	ND	ND		09/02/22	6:18	BA	468818
o-Xylene	ETO15	10.00	3.0	22	ND	ND		09/02/22	6:18	BA	468818
Styrene	ETO15	10.00	4.6	21	ND	ND		09/02/22	6:18	BA	468818
Bromoform	ETO15	10.00	13	52	ND	ND		09/02/22	6:18	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	10.00	8.2	34	ND	ND		09/02/22	6:18	BA	468818
4-Ethyl Toluene	ETO15	10.00	5.5	25	ND	ND		09/02/22	6:18	BA	468818
1,3,5-Trimethylbenzene	ETO15	10.00	3.0	25	ND	ND		09/02/22	6:18	BA	468818
1,2,4-Trimethylbenzene	ETO15	10.00	6.0	25	ND	ND		09/02/22	6:18	BA	468818
1,4-Dichlorobenzene	ETO15	10.00	7.5	30	ND	ND		09/02/22	6:18	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-20	**Lab Sample ID:**	2208230-001A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/23/22 / 13:33	**Certified Clean WO # :**	
Canister/Tube ID:	6116	**Received PSI :**	11.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,3-Dichlorobenzene	ETO15	10.00	13	30	ND	ND		09/02/22	6:18	BA	468818
1,2-Dichlorobenzene	ETO15	10.00	11	30	ND	ND		09/02/22	6:18	BA	468818
Hexachlorobutadiene	ETO15	10.00	19	53	ND	ND		09/02/22	6:18	BA	468818
1,2,4-Trichlorobenzene	ETO15	10.00	22	37	ND	ND		09/02/22	6:18	BA	468818
Naphthalene	ETO15	10.00	13	26	ND	ND		09/02/22	6:18	BA	468818
(S) 4-Bromofluorobenzene	ETO15	10.00	50	150	98 %			09/02/22	6:18	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-21	**Lab Sample ID:**	2208230-002A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/23/22 / 13:49	**Certified Clean WO # :**	
Canister/Tube ID:	A12221	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22 10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	6.70	0.071	0.34	1.0			09/02/22	10:51	BA	468853

NOTE: Low Oxygen likely due to high microbial activity (high concentration of non-target gas).

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22 4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		09/01/22	20:48	BA	468818
1,1-Difluoroethane	ETO15	30.00	10	410	74000	27,407.41	E	09/01/22	20:48	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		09/01/22	20:48	BA	468818
Chloromethane	ETO15	30.00	61	120	ND	ND		09/01/22	20:48	BA	468818
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		09/01/22	20:48	BA	468818
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		09/01/22	20:48	BA	468818
Bromomethane	ETO15	30.00	20	58	ND	ND		09/01/22	20:48	BA	468818
Chloroethane	ETO15	30.00	24	40	41	15.53		09/01/22	20:48	BA	468818
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		09/01/22	20:48	BA	468818
1,1-Dichloroethene	ETO15	30.00	25	60	ND	ND		09/01/22	20:48	BA	468818
Freon 113	ETO15	30.00	31	110	ND	ND		09/01/22	20:48	BA	468818
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		09/01/22	20:48	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		09/01/22	20:48	BA	468818
Methylene Chloride	ETO15	30.00	21	310	ND	ND		09/01/22	20:48	BA	468818
Acetone	ETO15	30.00	12	360	ND	ND		09/01/22	20:48	BA	468818
trans-1,2-Dichloroethene	ETO15	30.00	14	59	ND	ND		09/01/22	20:48	BA	468818
Hexane	ETO15	30.00	14	53	3900	1,107.95		09/01/22	20:48	BA	468818
MTBE	ETO15	30.00	13	54	ND	ND		09/01/22	20:48	BA	468818
tert-Butanol	ETO15	30.00	19	45	ND	ND		09/01/22	20:48	BA	468818
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		09/01/22	20:48	BA	468818
1,1-Dichloroethane	ETO15	30.00	16	61	ND	ND		09/01/22	20:48	BA	468818
ETBE	ETO15	30.00	9.8	63	ND	ND		09/01/22	20:48	BA	468818
cis-1,2-Dichloroethene	ETO15	30.00	25	59	860	217.17		09/01/22	20:48	BA	468818
Chloroform	ETO15	30.00	29	73	600	122.95		09/01/22	20:48	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-21	**Lab Sample ID:**	2208230-002A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/23/22 / 13:49	**Certified Clean WO # :**	
Canister/Tube ID:	A12221	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		09/01/22	20:48	BA	468818
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		09/01/22	20:48	BA	468818
1,1,1-Trichloroethane	ETO15	30.00	24	82	ND	ND		09/01/22	20:48	BA	468818
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		09/01/22	20:48	BA	468818
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		09/01/22	20:48	BA	468818
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		09/01/22	20:48	BA	468818
Benzene	ETO15	30.00	13	48	ND	ND		09/01/22	20:48	BA	468818
TAME	ETO15	30.00	20	63	ND	ND		09/01/22	20:48	BA	468818
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		09/01/22	20:48	BA	468818
Trichloroethylene	ETO15	30.00	24	81	ND	ND		09/01/22	20:48	BA	468818
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		09/01/22	20:48	BA	468818
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		09/01/22	20:48	BA	468818
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		09/01/22	20:48	BA	468818
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		09/01/22	20:48	BA	468818
Toluene	ETO15	30.00	23	57	ND	ND		09/01/22	20:48	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		09/01/22	20:48	BA	468818
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		09/01/22	20:48	BA	468818
Tetrachloroethylene	ETO15	30.00	44	100	ND	ND		09/01/22	20:48	BA	468818
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		09/01/22	20:48	BA	468818
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		09/01/22	20:48	BA	468818
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		09/01/22	20:48	BA	468818
2-Hexanone	ETO15	30.00	20	62	ND	ND		09/01/22	20:48	BA	468818
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		09/01/22	20:48	BA	468818
Chlorobenzene	ETO15	30.00	18	69	ND	ND		09/01/22	20:48	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/01/22	20:48	BA	468818
m,p-Xylene	ETO15	30.00	29	65	ND	ND		09/01/22	20:48	BA	468818
o-Xylene	ETO15	30.00	9.1	65	ND	ND		09/01/22	20:48	BA	468818
Styrene	ETO15	30.00	14	64	ND	ND		09/01/22	20:48	BA	468818
Bromoform	ETO15	30.00	39	160	ND	ND		09/01/22	20:48	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/01/22	20:48	BA	468818
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		09/01/22	20:48	BA	468818
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		09/01/22	20:48	BA	468818
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		09/01/22	20:48	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-21	**Lab Sample ID:**	2208230-002A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/23/22 / 13:49	**Certified Clean WO # :**	
Canister/Tube ID:	A12221	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		09/01/22	20:48	BA	468818
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		09/01/22	20:48	BA	468818
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		09/01/22	20:48	BA	468818
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		09/01/22	20:48	BA	468818
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		09/01/22	20:48	BA	468818
Naphthalene	ETO15	30.00	38	79	ND	ND		09/01/22	20:48	BA	468818
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	93 %			09/01/22	20:48	BA	468818

NOTE: E - Estimated value

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-15	**Lab Sample ID:**	2208230-003A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 10:21	**Certified Clean WO # :**	
Canister/Tube ID:	8344	**Received PSI :**	12.2
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22 10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	19.00	0.20	0.95	11			09/02/22	11:17	BA	468853

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22 4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		09/02/22	7:18	BA	468818
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		09/02/22	7:18	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		09/02/22	7:18	BA	468818
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		09/02/22	7:18	BA	468818
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		09/02/22	7:18	BA	468818
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		09/02/22	7:18	BA	468818
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		09/02/22	7:18	BA	468818
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		09/02/22	7:18	BA	468818
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		09/02/22	7:18	BA	468818
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		09/02/22	7:18	BA	468818
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		09/02/22	7:18	BA	468818
Carbon Disulfide	ETO15	1.00	0.37	1.6	15	4.82		09/02/22	7:18	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		09/02/22	7:18	BA	468818
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		09/02/22	7:18	BA	468818
Acetone	ETO15	1.00	0.40	12	50	21.01		09/02/22	7:18	BA	468818
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		09/02/22	7:18	BA	468818
Hexane	ETO15	1.00	0.46	1.8	2.2	0.63		09/02/22	7:18	BA	468818
MTBE	ETO15	1.00	0.44	1.8	ND	ND		09/02/22	7:18	BA	468818
tert-Butanol	ETO15	1.00	0.62	1.5	ND	ND		09/02/22	7:18	BA	468818
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		09/02/22	7:18	BA	468818
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		09/02/22	7:18	BA	468818
ETBE	ETO15	1.00	0.33	2.1	ND	ND		09/02/22	7:18	BA	468818
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		09/02/22	7:18	BA	468818
Chloroform	ETO15	1.00	0.97	2.4	9.3	1.91		09/02/22	7:18	BA	468818
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		09/02/22	7:18	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-15	**Lab Sample ID:**	2208230-003A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 10:21	**Certified Clean WO # :**	
Canister/Tube ID:	8344	**Received PSI :**	12.2
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		09/02/22	7:18	BA	468818
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	9.4	1.72		09/02/22	7:18	BA	468818
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	3.1	1.05		09/02/22	7:18	BA	468818
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		09/02/22	7:18	BA	468818
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		09/02/22	7:18	BA	468818
Benzene	ETO15	1.00	0.44	1.6	1.8	0.56		09/02/22	7:18	BA	468818
TAME	ETO15	1.00	0.67	2.1	ND	ND		09/02/22	7:18	BA	468818
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		09/02/22	7:18	BA	468818
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		09/02/22	7:18	BA	468818
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		09/02/22	7:18	BA	468818
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		09/02/22	7:18	BA	468818
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		09/02/22	7:18	BA	468818
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		09/02/22	7:18	BA	468818
Toluene	ETO15	1.00	0.75	1.9	12	3.18		09/02/22	7:18	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		09/02/22	7:18	BA	468818
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		09/02/22	7:18	BA	468818
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		09/02/22	7:18	BA	468818
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		09/02/22	7:18	BA	468818
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		09/02/22	7:18	BA	468818
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		09/02/22	7:18	BA	468818
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		09/02/22	7:18	BA	468818
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		09/02/22	7:18	BA	468818
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		09/02/22	7:18	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		09/02/22	7:18	BA	468818
m,p-Xylene	ETO15	1.00	0.98	2.2	7.1	1.64		09/02/22	7:18	BA	468818
o-Xylene	ETO15	1.00	0.30	2.2	3.9	0.90		09/02/22	7:18	BA	468818
Styrene	ETO15	1.00	0.46	2.1	ND	ND		09/02/22	7:18	BA	468818
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		09/02/22	7:18	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		09/02/22	7:18	BA	468818
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		09/02/22	7:18	BA	468818
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		09/02/22	7:18	BA	468818
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		09/02/22	7:18	BA	468818
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		09/02/22	7:18	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-15	**Lab Sample ID:**	2208230-003A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 10:21	**Certified Clean WO # :**	
Canister/Tube ID:	8344	**Received PSI :**	12.2
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		09/02/22	7:18	BA	468818
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		09/02/22	7:18	BA	468818
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		09/02/22	7:18	BA	468818
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		09/02/22	7:18	BA	468818
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		09/02/22	7:18	BA	468818
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	95 %			09/02/22	7:18	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-14	**Lab Sample ID:**	2208230-004A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 10:29	**Certified Clean WO # :**	
Canister/Tube ID:	N3966	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22 10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	3.90	0.041	0.20	14			09/02/22	11:44	BA	468853

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22 4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		09/02/22	7:46	BA	468818
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		09/02/22	7:46	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		09/02/22	7:46	BA	468818
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		09/02/22	7:46	BA	468818
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		09/02/22	7:46	BA	468818
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		09/02/22	7:46	BA	468818
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		09/02/22	7:46	BA	468818
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		09/02/22	7:46	BA	468818
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		09/02/22	7:46	BA	468818
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		09/02/22	7:46	BA	468818
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		09/02/22	7:46	BA	468818
Carbon Disulfide	ETO15	1.00	0.37	1.6	6.4	2.06		09/02/22	7:46	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		09/02/22	7:46	BA	468818
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		09/02/22	7:46	BA	468818
Acetone	ETO15	1.00	0.40	12	42	17.65		09/02/22	7:46	BA	468818
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		09/02/22	7:46	BA	468818
Hexane	ETO15	1.00	0.46	1.8	ND	ND		09/02/22	7:46	BA	468818
MTBE	ETO15	1.00	0.44	1.8	ND	ND		09/02/22	7:46	BA	468818
tert-Butanol	ETO15	1.00	0.62	1.5	ND	ND		09/02/22	7:46	BA	468818
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		09/02/22	7:46	BA	468818
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		09/02/22	7:46	BA	468818
ETBE	ETO15	1.00	0.33	2.1	ND	ND		09/02/22	7:46	BA	468818
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		09/02/22	7:46	BA	468818
Chloroform	ETO15	1.00	0.97	2.4	4.6	0.94		09/02/22	7:46	BA	468818
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		09/02/22	7:46	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-14	**Lab Sample ID:**	2208230-004A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 10:29	**Certified Clean WO # :**	
Canister/Tube ID:	N3966	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		09/02/22	7:46	BA	468818
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	29	5.31		09/02/22	7:46	BA	468818
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	13	4.41		09/02/22	7:46	BA	468818
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		09/02/22	7:46	BA	468818
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		09/02/22	7:46	BA	468818
Benzene	ETO15	1.00	0.44	1.6	ND	ND		09/02/22	7:46	BA	468818
TAME	ETO15	1.00	0.67	2.1	ND	ND		09/02/22	7:46	BA	468818
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		09/02/22	7:46	BA	468818
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		09/02/22	7:46	BA	468818
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		09/02/22	7:46	BA	468818
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		09/02/22	7:46	BA	468818
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		09/02/22	7:46	BA	468818
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		09/02/22	7:46	BA	468818
Toluene	ETO15	1.00	0.75	1.9	6.1	1.62		09/02/22	7:46	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	3.2	0.78		09/02/22	7:46	BA	468818
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		09/02/22	7:46	BA	468818
Tetrachloroethylene	ETO15	1.00	1.5	3.4	15	2.21		09/02/22	7:46	BA	468818
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		09/02/22	7:46	BA	468818
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		09/02/22	7:46	BA	468818
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		09/02/22	7:46	BA	468818
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		09/02/22	7:46	BA	468818
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		09/02/22	7:46	BA	468818
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		09/02/22	7:46	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		09/02/22	7:46	BA	468818
m,p-Xylene	ETO15	1.00	0.98	2.2	ND	ND		09/02/22	7:46	BA	468818
o-Xylene	ETO15	1.00	0.30	2.2	ND	ND		09/02/22	7:46	BA	468818
Styrene	ETO15	1.00	0.46	2.1	ND	ND		09/02/22	7:46	BA	468818
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		09/02/22	7:46	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		09/02/22	7:46	BA	468818
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		09/02/22	7:46	BA	468818
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		09/02/22	7:46	BA	468818
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		09/02/22	7:46	BA	468818
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		09/02/22	7:46	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-14	**Lab Sample ID:**	2208230-004A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 10:29	**Certified Clean WO # :**	
Canister/Tube ID:	N3966	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		09/02/22	7:46	BA	468818
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		09/02/22	7:46	BA	468818
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		09/02/22	7:46	BA	468818
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		09/02/22	7:46	BA	468818
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		09/02/22	7:46	BA	468818
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	93 %			09/02/22	7:46	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-17	**Lab Sample ID:**	2208230-005A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 11:51	**Certified Clean WO # :**	
Canister/Tube ID:	A7558	**Received PSI :**	11.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22 10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	5.10	0.054	0.26	0.28			09/02/22	12:11	BA	468853

NOTE: Low Oxygen likely due to high microbial activity (high concentration of non-target gases).

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22 4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		09/01/22	22:02	BA	468818
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		09/01/22	22:02	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		09/01/22	22:02	BA	468818
Chloromethane	ETO15	30.00	61	120	ND	ND		09/01/22	22:02	BA	468818
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		09/01/22	22:02	BA	468818
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		09/01/22	22:02	BA	468818
Bromomethane	ETO15	30.00	20	58	ND	ND		09/01/22	22:02	BA	468818
Chloroethane	ETO15	30.00	24	40	ND	ND		09/01/22	22:02	BA	468818
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		09/01/22	22:02	BA	468818
1,1-Dichloroethene	ETO15	30.00	25	60	ND	ND		09/01/22	22:02	BA	468818
Freon 113	ETO15	30.00	31	110	ND	ND		09/01/22	22:02	BA	468818
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		09/01/22	22:02	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		09/01/22	22:02	BA	468818
Methylene Chloride	ETO15	30.00	21	310	ND	ND		09/01/22	22:02	BA	468818
trans-1,2-Dichloroethene	ETO15	30.00	14	59	ND	ND		09/01/22	22:02	BA	468818
Hexane	ETO15	30.00	14	53	330	93.75		09/01/22	22:02	BA	468818
MTBE	ETO15	30.00	13	54	ND	ND		09/01/22	22:02	BA	468818
tert-Butanol	ETO15	30.00	19	45	ND	ND		09/01/22	22:02	BA	468818
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		09/01/22	22:02	BA	468818
1,1-Dichloroethane	ETO15	30.00	16	61	ND	ND		09/01/22	22:02	BA	468818
ETBE	ETO15	30.00	9.8	63	ND	ND		09/01/22	22:02	BA	468818
cis-1,2-Dichloroethene	ETO15	30.00	25	59	ND	ND		09/01/22	22:02	BA	468818
Chloroform	ETO15	30.00	29	73	720	147.54		09/01/22	22:02	BA	468818
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		09/01/22	22:02	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-17	**Lab Sample ID:**	2208230-005A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 11:51	**Certified Clean WO # :**	
Canister/Tube ID:	A7558	**Received PSI :**	11.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		09/01/22	22:02	BA	468818
1,1,1-Trichloroethane	ETO15	30.00	24	82	ND	ND		09/01/22	22:02	BA	468818
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		09/01/22	22:02	BA	468818
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		09/01/22	22:02	BA	468818
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		09/01/22	22:02	BA	468818
Benzene	ETO15	30.00	13	48	890	279.00		09/01/22	22:02	BA	468818
TAME	ETO15	30.00	20	63	ND	ND		09/01/22	22:02	BA	468818
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		09/01/22	22:02	BA	468818
Trichloroethylene	ETO15	30.00	24	81	ND	ND		09/01/22	22:02	BA	468818
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		09/01/22	22:02	BA	468818
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		09/01/22	22:02	BA	468818
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		09/01/22	22:02	BA	468818
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		09/01/22	22:02	BA	468818
Toluene	ETO15	30.00	23	57	58	15.38		09/01/22	22:02	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		09/01/22	22:02	BA	468818
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		09/01/22	22:02	BA	468818
Tetrachloroethylene	ETO15	30.00	44	100	ND	ND		09/01/22	22:02	BA	468818
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		09/01/22	22:02	BA	468818
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		09/01/22	22:02	BA	468818
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		09/01/22	22:02	BA	468818
2-Hexanone	ETO15	30.00	20	62	ND	ND		09/01/22	22:02	BA	468818
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		09/01/22	22:02	BA	468818
Chlorobenzene	ETO15	30.00	18	69	ND	ND		09/01/22	22:02	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/01/22	22:02	BA	468818
m,p-Xylene	ETO15	30.00	29	65	ND	ND		09/01/22	22:02	BA	468818
o-Xylene	ETO15	30.00	9.1	65	ND	ND		09/01/22	22:02	BA	468818
Styrene	ETO15	30.00	14	64	ND	ND		09/01/22	22:02	BA	468818
Bromoform	ETO15	30.00	39	160	ND	ND		09/01/22	22:02	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/01/22	22:02	BA	468818
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		09/01/22	22:02	BA	468818
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		09/01/22	22:02	BA	468818
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		09/01/22	22:02	BA	468818
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		09/01/22	22:02	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-17	**Lab Sample ID:**	2208230-005A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 11:51	**Certified Clean WO # :**	
Canister/Tube ID:	A7558	**Received PSI :**	11.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		09/01/22	22:02	BA	468818
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		09/01/22	22:02	BA	468818
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		09/01/22	22:02	BA	468818
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		09/01/22	22:02	BA	468818
Naphthalene	ETO15	30.00	38	79	ND	ND		09/01/22	22:02	BA	468818
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	95 %			09/01/22	22:02	BA	468818

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Acetone	ETO15	60.00	24	710	4200	1,764.71		09/02/22	8:11	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-16	**Lab Sample ID:**	2208230-006A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 11:59	**Certified Clean WO # :**	
Canister/Tube ID:	N3990	**Received PSI :**	12.2
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22	10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI	

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	5.10	0.054	0.26	0.48			09/02/22	12:38	BA	468853

NOTE: Low Oxygen likely due to high microbial activity (high concentration of non-target gases).

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		09/01/22	22:27	BA	468818
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		09/01/22	22:27	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		09/01/22	22:27	BA	468818
Chloromethane	ETO15	30.00	61	120	ND	ND		09/01/22	22:27	BA	468818
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		09/01/22	22:27	BA	468818
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		09/01/22	22:27	BA	468818
Bromomethane	ETO15	30.00	20	58	ND	ND		09/01/22	22:27	BA	468818
Chloroethane	ETO15	30.00	24	40	ND	ND		09/01/22	22:27	BA	468818
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		09/01/22	22:27	BA	468818
1,1-Dichloroethene	ETO15	30.00	25	60	ND	ND		09/01/22	22:27	BA	468818
Freon 113	ETO15	30.00	31	110	ND	ND		09/01/22	22:27	BA	468818
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		09/01/22	22:27	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		09/01/22	22:27	BA	468818
Methylene Chloride	ETO15	30.00	21	310	ND	ND		09/01/22	22:27	BA	468818
trans-1,2-Dichloroethene	ETO15	30.00	14	59	150	37.88		09/01/22	22:27	BA	468818
MTBE	ETO15	30.00	13	54	ND	ND		09/01/22	22:27	BA	468818
tert-Butanol	ETO15	30.00	19	45	ND	ND		09/01/22	22:27	BA	468818
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		09/01/22	22:27	BA	468818
1,1-Dichloroethane	ETO15	30.00	16	61	120	29.63		09/01/22	22:27	BA	468818
ETBE	ETO15	30.00	9.8	63	ND	ND		09/01/22	22:27	BA	468818
cis-1,2-Dichloroethene	ETO15	30.00	25	59	350	88.38		09/01/22	22:27	BA	468818
Chloroform	ETO15	30.00	29	73	1000	204.92		09/01/22	22:27	BA	468818
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		09/01/22	22:27	BA	468818
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		09/01/22	22:27	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-16	**Lab Sample ID:**	2208230-006A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 11:59	**Certified Clean WO # :**	
Canister/Tube ID:	N3990	**Received PSI :**	12.2
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,1,1-Trichloroethane	ETO15	30.00	24	82	ND	ND		09/01/22	22:27	BA	468818
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		09/01/22	22:27	BA	468818
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		09/01/22	22:27	BA	468818
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		09/01/22	22:27	BA	468818
Benzene	ETO15	30.00	13	48	1800	564.26		09/01/22	22:27	BA	468818
TAME	ETO15	30.00	20	63	ND	ND		09/01/22	22:27	BA	468818
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		09/01/22	22:27	BA	468818
Trichloroethylene	ETO15	30.00	24	81	ND	ND		09/01/22	22:27	BA	468818
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		09/01/22	22:27	BA	468818
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		09/01/22	22:27	BA	468818
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		09/01/22	22:27	BA	468818
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		09/01/22	22:27	BA	468818
Toluene	ETO15	30.00	23	57	ND	ND		09/01/22	22:27	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		09/01/22	22:27	BA	468818
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		09/01/22	22:27	BA	468818
Tetrachloroethylene	ETO15	30.00	44	100	ND	ND		09/01/22	22:27	BA	468818
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		09/01/22	22:27	BA	468818
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		09/01/22	22:27	BA	468818
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		09/01/22	22:27	BA	468818
2-Hexanone	ETO15	30.00	20	62	ND	ND		09/01/22	22:27	BA	468818
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		09/01/22	22:27	BA	468818
Chlorobenzene	ETO15	30.00	18	69	ND	ND		09/01/22	22:27	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/01/22	22:27	BA	468818
m,p-Xylene	ETO15	30.00	29	65	100	23.04		09/01/22	22:27	BA	468818
o-Xylene	ETO15	30.00	9.1	65	79	18.20		09/01/22	22:27	BA	468818
Styrene	ETO15	30.00	14	64	ND	ND		09/01/22	22:27	BA	468818
Bromoform	ETO15	30.00	39	160	ND	ND		09/01/22	22:27	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/01/22	22:27	BA	468818
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		09/01/22	22:27	BA	468818
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		09/01/22	22:27	BA	468818
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		09/01/22	22:27	BA	468818
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		09/01/22	22:27	BA	468818
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		09/01/22	22:27	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-16	**Lab Sample ID:**	2208230-006A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 11:59	**Certified Clean WO # :**	
Canister/Tube ID:	N3990	**Received PSI :**	12.2
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		09/01/22	22:27	BA	468818
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		09/01/22	22:27	BA	468818
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	130	17.52		09/01/22	22:27	BA	468818
Naphthalene	ETO15	30.00	38	79	ND	ND		09/01/22	22:27	BA	468818
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	74 %			09/01/22	22:27	BA	468818

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Acetone	ETO15	120.0	47	1400	3700	1,554.62		09/02/22	11:12	BA	468818
Hexane	ETO15	120.0	56	210	11000	3,125.00		09/02/22	11:12	BA	468818
(S) 4-Bromofluorobenzene	ETO15	120.0	50	150	96 %			09/02/22	11:12	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-19	**Lab Sample ID:**	2208230-007A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 12:42	**Certified Clean WO # :**	
Canister/Tube ID:	8264	**Received PSI :**	11.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22 10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
The results shown below are reported using their MDL.											
Oxygen	D1946	5.90	0.062	0.30	0.14		J	09/02/22	14:21	BA	468853

NOTE: Low Oxygen likely due to high microbial activity (high concentration of non-target gases).

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22 4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		09/02/22	8:39	BA	468818
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		09/02/22	8:39	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		09/02/22	8:39	BA	468818
Chloromethane	ETO15	30.00	61	120	ND	ND		09/02/22	8:39	BA	468818
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		09/02/22	8:39	BA	468818
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		09/02/22	8:39	BA	468818
Bromomethane	ETO15	30.00	20	58	ND	ND		09/02/22	8:39	BA	468818
Chloroethane	ETO15	30.00	24	40	ND	ND		09/02/22	8:39	BA	468818
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		09/02/22	8:39	BA	468818
1,1-Dichloroethene	ETO15	30.00	25	60	ND	ND		09/02/22	8:39	BA	468818
Freon 113	ETO15	30.00	31	110	ND	ND		09/02/22	8:39	BA	468818
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		09/02/22	8:39	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		09/02/22	8:39	BA	468818
Methylene Chloride	ETO15	30.00	21	310	ND	ND		09/02/22	8:39	BA	468818
Acetone	ETO15	30.00	12	360	ND	ND		09/02/22	8:39	BA	468818
trans-1,2-Dichloroethene	ETO15	30.00	14	59	580	146.46		09/02/22	8:39	BA	468818
Hexane	ETO15	30.00	14	53	630	178.98		09/02/22	8:39	BA	468818
MTBE	ETO15	30.00	13	54	ND	ND		09/02/22	8:39	BA	468818
tert-Butanol	ETO15	30.00	19	45	ND	ND		09/02/22	8:39	BA	468818
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		09/02/22	8:39	BA	468818
1,1-Dichloroethane	ETO15	30.00	16	61	ND	ND		09/02/22	8:39	BA	468818
ETBE	ETO15	30.00	9.8	63	ND	ND		09/02/22	8:39	BA	468818
Chloroform	ETO15	30.00	29	73	250	51.23		09/02/22	8:39	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-19	**Lab Sample ID:**	2208230-007A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 12:42	**Certified Clean WO # :**	
Canister/Tube ID:	8264	**Received PSI :**	11.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		09/02/22	8:39	BA	468818
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		09/02/22	8:39	BA	468818
1,1,1-Trichloroethane	ETO15	30.00	24	82	ND	ND		09/02/22	8:39	BA	468818
2-Butanone (MEK)	ETO15	30.00	12	44	1700	576.27		09/02/22	8:39	BA	468818
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		09/02/22	8:39	BA	468818
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		09/02/22	8:39	BA	468818
Benzene	ETO15	30.00	13	48	ND	ND		09/02/22	8:39	BA	468818
TAME	ETO15	30.00	20	63	ND	ND		09/02/22	8:39	BA	468818
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		09/02/22	8:39	BA	468818
Trichloroethylene	ETO15	30.00	24	81	2900	540.04		09/02/22	8:39	BA	468818
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		09/02/22	8:39	BA	468818
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		09/02/22	8:39	BA	468818
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		09/02/22	8:39	BA	468818
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		09/02/22	8:39	BA	468818
Toluene	ETO15	30.00	23	57	ND	ND		09/02/22	8:39	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		09/02/22	8:39	BA	468818
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		09/02/22	8:39	BA	468818
Tetrachloroethylene	ETO15	30.00	44	100	5200	766.96		09/02/22	8:39	BA	468818
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		09/02/22	8:39	BA	468818
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		09/02/22	8:39	BA	468818
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		09/02/22	8:39	BA	468818
2-Hexanone	ETO15	30.00	20	62	ND	ND		09/02/22	8:39	BA	468818
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		09/02/22	8:39	BA	468818
Chlorobenzene	ETO15	30.00	18	69	ND	ND		09/02/22	8:39	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/02/22	8:39	BA	468818
m,p-Xylene	ETO15	30.00	29	65	ND	ND		09/02/22	8:39	BA	468818
o-Xylene	ETO15	30.00	9.1	65	ND	ND		09/02/22	8:39	BA	468818
Styrene	ETO15	30.00	14	64	ND	ND		09/02/22	8:39	BA	468818
Bromoform	ETO15	30.00	39	160	ND	ND		09/02/22	8:39	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/02/22	8:39	BA	468818
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		09/02/22	8:39	BA	468818
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		09/02/22	8:39	BA	468818
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		09/02/22	8:39	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-19	**Lab Sample ID:**	2208230-007A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 12:42	**Certified Clean WO # :**	
Canister/Tube ID:	8264	**Received PSI :**	11.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		09/02/22	8:39	BA	468818
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		09/02/22	8:39	BA	468818
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		09/02/22	8:39	BA	468818
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		09/02/22	8:39	BA	468818
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		09/02/22	8:39	BA	468818
Naphthalene	ETO15	30.00	38	79	ND	ND		09/02/22	8:39	BA	468818
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	36 %		S	09/02/22	8:39	BA	468818

NOTE: S - Surrogate recovery out of limits and attributed to matrix interference (heavy end hydrocarbons).

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
cis-1,2-Dichloroethene	ETO15	60.00	50	120	4700	1,186.87		09/02/22	9:53	BA	468818
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	65 %			09/02/22	9:53	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-18	**Lab Sample ID:**	2208230-008A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 12:52	**Certified Clean WO # :**	
Canister/Tube ID:	A12194	**Received PSI :**	13.8
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22	10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI	

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	4.60	0.049	0.23	0.85			09/02/22	14:52	BA	468853

NOTE: Low Oxygen likely due to high microbial activity (high concentration of non-target gas).

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM	
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL		

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		09/02/22	9:04	BA	468818
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		09/02/22	9:04	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		09/02/22	9:04	BA	468818
Chloromethane	ETO15	30.00	61	120	ND	ND		09/02/22	9:04	BA	468818
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		09/02/22	9:04	BA	468818
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		09/02/22	9:04	BA	468818
Bromomethane	ETO15	30.00	20	58	ND	ND		09/02/22	9:04	BA	468818
Chloroethane	ETO15	30.00	24	40	ND	ND		09/02/22	9:04	BA	468818
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		09/02/22	9:04	BA	468818
1,1-Dichloroethene	ETO15	30.00	25	60	ND	ND		09/02/22	9:04	BA	468818
Freon 113	ETO15	30.00	31	110	ND	ND		09/02/22	9:04	BA	468818
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		09/02/22	9:04	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		09/02/22	9:04	BA	468818
Methylene Chloride	ETO15	30.00	21	310	ND	ND		09/02/22	9:04	BA	468818
Acetone	ETO15	30.00	12	360	ND	ND		09/02/22	9:04	BA	468818
trans-1,2-Dichloroethene	ETO15	30.00	14	59	ND	ND		09/02/22	9:04	BA	468818
Hexane	ETO15	30.00	14	53	ND	ND		09/02/22	9:04	BA	468818
MTBE	ETO15	30.00	13	54	ND	ND		09/02/22	9:04	BA	468818
tert-Butanol	ETO15	30.00	19	45	ND	ND		09/02/22	9:04	BA	468818
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		09/02/22	9:04	BA	468818
1,1-Dichloroethane	ETO15	30.00	16	61	ND	ND		09/02/22	9:04	BA	468818
ETBE	ETO15	30.00	9.8	63	ND	ND		09/02/22	9:04	BA	468818
cis-1,2-Dichloroethene	ETO15	30.00	25	59	ND	ND		09/02/22	9:04	BA	468818
Chloroform	ETO15	30.00	29	73	ND	ND		09/02/22	9:04	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-18	**Lab Sample ID:**	2208230-008A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 12:52	**Certified Clean WO # :**	
Canister/Tube ID:	A12194	**Received PSI :**	13.8
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		09/02/22	9:04	BA	468818
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		09/02/22	9:04	BA	468818
1,1,1-Trichloroethane	ETO15	30.00	24	82	270	49.45		09/02/22	9:04	BA	468818
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		09/02/22	9:04	BA	468818
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		09/02/22	9:04	BA	468818
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		09/02/22	9:04	BA	468818
Benzene	ETO15	30.00	13	48	ND	ND		09/02/22	9:04	BA	468818
TAME	ETO15	30.00	20	63	ND	ND		09/02/22	9:04	BA	468818
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		09/02/22	9:04	BA	468818
Trichloroethylene	ETO15	30.00	24	81	ND	ND		09/02/22	9:04	BA	468818
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		09/02/22	9:04	BA	468818
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		09/02/22	9:04	BA	468818
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		09/02/22	9:04	BA	468818
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		09/02/22	9:04	BA	468818
Toluene	ETO15	30.00	23	57	ND	ND		09/02/22	9:04	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		09/02/22	9:04	BA	468818
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		09/02/22	9:04	BA	468818
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		09/02/22	9:04	BA	468818
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		09/02/22	9:04	BA	468818
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		09/02/22	9:04	BA	468818
2-Hexanone	ETO15	30.00	20	62	ND	ND		09/02/22	9:04	BA	468818
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		09/02/22	9:04	BA	468818
Chlorobenzene	ETO15	30.00	18	69	ND	ND		09/02/22	9:04	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/02/22	9:04	BA	468818
m,p-Xylene	ETO15	30.00	29	65	ND	ND		09/02/22	9:04	BA	468818
o-Xylene	ETO15	30.00	9.1	65	ND	ND		09/02/22	9:04	BA	468818
Styrene	ETO15	30.00	14	64	ND	ND		09/02/22	9:04	BA	468818
Bromoform	ETO15	30.00	39	160	ND	ND		09/02/22	9:04	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		09/02/22	9:04	BA	468818
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		09/02/22	9:04	BA	468818
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		09/02/22	9:04	BA	468818
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		09/02/22	9:04	BA	468818
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		09/02/22	9:04	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-18	**Lab Sample ID:**	2208230-008A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 12:52	**Certified Clean WO # :**	
Canister/Tube ID:	A12194	**Received PSI :**	13.8
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		09/02/22	9:04	BA	468818
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		09/02/22	9:04	BA	468818
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		09/02/22	9:04	BA	468818
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		09/02/22	9:04	BA	468818
Naphthalene	ETO15	30.00	38	79	ND	ND		09/02/22	9:04	BA	468818
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	92 %			09/02/22	9:04	BA	468818

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Tetrachloroethylene	ETO15	60.00	87	200	15000	2,212.39		09/02/22	10:17	BA	468818
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	90 %			09/02/22	10:17	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-10	**Lab Sample ID:**	2208230-009A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 13:45	**Certified Clean WO # :**	
Canister/Tube ID:	A7568	**Received PSI :**	13.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	FG-P	**Prep Batch Date/Time:**	9/2/22 10:00:00AM
Prep Batch ID:	1144606	**Prep Analyst:**	BALI

Parameters:	Analysis Method	DF	MDL %	PQL %	Results %	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Oxygen	D1946	4.40	0.046	0.22	15			09/02/22	15:28	BA	468853

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22 4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	2.00	3.1	5.0	ND	ND		09/02/22	10:47	BA	468818
1,1-Difluoroethane	ETO15	2.00	0.69	27	ND	ND		09/02/22	10:47	BA	468818
1,2-Dichlorotetrafluoroethane	ETO15	2.00	2.8	7.0	ND	ND		09/02/22	10:47	BA	468818
Chloromethane	ETO15	2.00	4.1	8.3	ND	ND		09/02/22	10:47	BA	468818
Vinyl Chloride	ETO15	2.00	0.45	2.6	ND	ND		09/02/22	10:47	BA	468818
1,3-Butadiene	ETO15	2.00	0.68	2.2	ND	ND		09/02/22	10:47	BA	468818
Bromomethane	ETO15	2.00	1.3	3.9	ND	ND		09/02/22	10:47	BA	468818
Chloroethane	ETO15	2.00	1.6	2.6	ND	ND		09/02/22	10:47	BA	468818
Trichlorofluoromethane	ETO15	2.00	1.1	5.6	ND	ND		09/02/22	10:47	BA	468818
1,1-Dichloroethene	ETO15	2.00	1.7	4.0	ND	ND		09/02/22	10:47	BA	468818
Freon 113	ETO15	2.00	2.0	7.7	ND	ND		09/02/22	10:47	BA	468818
Carbon Disulfide	ETO15	2.00	0.75	3.1	23	7.40		09/02/22	10:47	BA	468818
2-Propanol (Isopropyl Alcohol)	ETO15	2.00	2.6	25	ND	ND		09/02/22	10:47	BA	468818
Methylene Chloride	ETO15	2.00	1.4	21	ND	ND		09/02/22	10:47	BA	468818
Acetone	ETO15	2.00	0.79	24	120	50.42		09/02/22	10:47	BA	468818
trans-1,2-Dichloroethene	ETO15	2.00	0.95	4.0	ND	ND		09/02/22	10:47	BA	468818
Hexane	ETO15	2.00	0.93	3.5	ND	ND		09/02/22	10:47	BA	468818
MTBE	ETO15	2.00	0.89	3.6	ND	ND		09/02/22	10:47	BA	468818
tert-Butanol	ETO15	2.00	1.2	3.0	16	5.28		09/02/22	10:47	BA	468818
Diisopropyl ether (DIPE)	ETO15	2.00	1.5	4.2	ND	ND		09/02/22	10:47	BA	468818
1,1-Dichloroethane	ETO15	2.00	1.1	4.1	ND	ND		09/02/22	10:47	BA	468818
ETBE	ETO15	2.00	0.65	4.2	ND	ND		09/02/22	10:47	BA	468818
cis-1,2-Dichloroethene	ETO15	2.00	1.7	4.0	ND	ND		09/02/22	10:47	BA	468818
Chloroform	ETO15	2.00	1.9	4.9	ND	ND		09/02/22	10:47	BA	468818
Vinyl Acetate	ETO15	2.00	1.5	3.5	ND	ND		09/02/22	10:47	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-10	**Lab Sample ID:**	2208230-009A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 13:45	**Certified Clean WO # :**	
Canister/Tube ID:	A7568	**Received PSI :**	13.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Carbon Tetrachloride	ETO15	2.00	2.2	6.3	7.6	1.21		09/02/22	10:47	BA	468818
1,1,1-Trichloroethane	ETO15	2.00	1.6	5.5	22	4.03		09/02/22	10:47	BA	468818
2-Butanone (MEK)	ETO15	2.00	0.78	3.0	14	4.75		09/02/22	10:47	BA	468818
Ethyl Acetate	ETO15	2.00	0.95	3.6	ND	ND		09/02/22	10:47	BA	468818
Tetrahydrofuran	ETO15	2.00	0.90	3.0	ND	ND		09/02/22	10:47	BA	468818
Benzene	ETO15	2.00	0.87	3.2	5.0	1.57		09/02/22	10:47	BA	468818
TAME	ETO15	2.00	1.3	4.2	ND	ND		09/02/22	10:47	BA	468818
1,2-Dichloroethane (EDC)	ETO15	2.00	0.84	4.1	ND	ND		09/02/22	10:47	BA	468818
Trichloroethylene	ETO15	2.00	1.6	5.4	140	26.07		09/02/22	10:47	BA	468818
1,2-Dichloropropane	ETO15	2.00	1.5	4.6	ND	ND		09/02/22	10:47	BA	468818
Bromodichloromethane	ETO15	2.00	1.5	6.7	ND	ND		09/02/22	10:47	BA	468818
1,4-Dioxane	ETO15	2.00	3.6	7.2	ND	ND		09/02/22	10:47	BA	468818
trans-1,3-Dichloropropene	ETO15	2.00	2.1	4.5	ND	ND		09/02/22	10:47	BA	468818
Toluene	ETO15	2.00	1.5	3.8	12	3.18		09/02/22	10:47	BA	468818
4-Methyl-2-Pentanone (MIBK)	ETO15	2.00	1.5	4.1	ND	ND		09/02/22	10:47	BA	468818
cis-1,3-Dichloropropene	ETO15	2.00	0.84	4.5	ND	ND		09/02/22	10:47	BA	468818
Tetrachloroethylene	ETO15	2.00	2.9	6.8	410	60.47		09/02/22	10:47	BA	468818
1,1,2-Trichloroethane	ETO15	2.00	1.2	5.5	6.1	1.12		09/02/22	10:47	BA	468818
Dibromochloromethane	ETO15	2.00	2.2	8.5	ND	ND		09/02/22	10:47	BA	468818
1,2-Dibromoethane (EDB)	ETO15	2.00	1.5	7.7	ND	ND		09/02/22	10:47	BA	468818
2-Hexanone	ETO15	2.00	1.3	4.1	ND	ND		09/02/22	10:47	BA	468818
Ethyl Benzene	ETO15	2.00	1.3	4.3	ND	ND		09/02/22	10:47	BA	468818
Chlorobenzene	ETO15	2.00	1.2	4.6	ND	ND		09/02/22	10:47	BA	468818
1,1,1,2-Tetrachloroethane	ETO15	2.00	1.7	6.9	ND	ND		09/02/22	10:47	BA	468818
m,p-Xylene	ETO15	2.00	2.0	4.3	ND	ND		09/02/22	10:47	BA	468818
o-Xylene	ETO15	2.00	0.61	4.3	ND	ND		09/02/22	10:47	BA	468818
Styrene	ETO15	2.00	0.93	4.3	ND	ND		09/02/22	10:47	BA	468818
Bromoform	ETO15	2.00	2.6	10	ND	ND		09/02/22	10:47	BA	468818
1,1,2,2-Tetrachloroethane	ETO15	2.00	1.6	6.9	ND	ND		09/02/22	10:47	BA	468818
4-Ethyl Toluene	ETO15	2.00	1.1	4.9	ND	ND		09/02/22	10:47	BA	468818
1,3,5-Trimethylbenzene	ETO15	2.00	0.60	4.9	ND	ND		09/02/22	10:47	BA	468818
1,2,4-Trimethylbenzene	ETO15	2.00	1.2	4.9	ND	ND		09/02/22	10:47	BA	468818
1,4-Dichlorobenzene	ETO15	2.00	1.5	6.0	ND	ND		09/02/22	10:47	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 08/26/22, 2:48 pm
Date Reported: 09/02/22

Client Sample ID:	SG-10	**Lab Sample ID:**	2208230-009A
Project Name/Location:	38600 Cedar Blvd	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	08/26/22 / 13:45	**Certified Clean WO # :**	
Canister/Tube ID:	A7568	**Received PSI :**	13.7
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	9/1/22	4:00:00PM
Prep Batch ID:	1144571	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,3-Dichlorobenzene	ETO15	2.00	2.7	6.0	ND	ND		09/02/22	10:47	BA	468818
1,2-Dichlorobenzene	ETO15	2.00	2.1	6.0	ND	ND		09/02/22	10:47	BA	468818
Hexachlorobutadiene	ETO15	2.00	3.7	11	ND	ND		09/02/22	10:47	BA	468818
1,2,4-Trichlorobenzene	ETO15	2.00	4.3	7.4	ND	ND		09/02/22	10:47	BA	468818
Naphthalene	ETO15	2.00	2.5	5.2	ND	ND		09/02/22	10:47	BA	468818
(S) 4-Bromofluorobenzene	ETO15	2.00	50	150	91 %			09/02/22	10:47	BA	468818

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-1 @ 6'	**Lab Sample ID:**	2207125-001A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 13:00	**Certified Clean WO # :**	
Canister/Tube ID:	N1433	**Received PSI :**	12.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22 12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	10.00	16	25	ND	ND		07/18/22	16:31	BP	467655
1,1-Difluoroethane	ETO15	10.00	3.5	140	ND	ND		07/18/22	16:31	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	10.00	14	35	ND	ND		07/18/22	16:31	BP	467655
Chloromethane	ETO15	10.00	20	41	ND	ND		07/18/22	16:31	BP	467655
Vinyl Chloride	ETO15	10.00	2.3	13	ND	ND		07/18/22	16:31	BP	467655
1,3-Butadiene	ETO15	10.00	3.4	11	ND	ND		07/18/22	16:31	BP	467655
Bromomethane	ETO15	10.00	6.6	19	ND	ND		07/18/22	16:31	BP	467655
Chloroethane	ETO15	10.00	8.1	13	ND	ND		07/18/22	16:31	BP	467655
Trichlorofluoromethane	ETO15	10.00	5.6	28	ND	ND		07/18/22	16:31	BP	467655
1,1-Dichloroethene	ETO15	10.00	8.3	20	ND	ND		07/18/22	16:31	BP	467655
Freon 113	ETO15	10.00	10	38	ND	ND		07/18/22	16:31	BP	467655
Carbon Disulfide	ETO15	10.00	3.7	16	ND	ND		07/18/22	16:31	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	10.00	13	120	ND	ND		07/18/22	16:31	BP	467655
Methylene Chloride	ETO15	10.00	7.0	100	ND	ND		07/18/22	16:31	BP	467655
Acetone	ETO15	10.00	4.0	120	ND	ND		07/18/22	16:31	BP	467655
trans-1,2-Dichloroethene	ETO15	10.00	4.8	20	ND	ND		07/18/22	16:31	BP	467655
Hexane	ETO15	10.00	4.6	18	ND	ND		07/18/22	16:31	BP	467655
MTBE	ETO15	10.00	4.4	18	ND	ND		07/18/22	16:31	BP	467655
tert-Butanol	ETO15	10.00	6.2	15	ND	ND		07/18/22	16:31	BP	467655
Diisopropyl ether (DIPE)	ETO15	10.00	7.4	21	ND	ND		07/18/22	16:31	BP	467655
1,1-Dichloroethane	ETO15	10.00	5.4	20	ND	ND		07/18/22	16:31	BP	467655
ETBE	ETO15	10.00	3.3	21	ND	ND		07/18/22	16:31	BP	467655
cis-1,2-Dichloroethene	ETO15	10.00	8.3	20	ND	ND		07/18/22	16:31	BP	467655
Chloroform	ETO15	10.00	9.7	24	ND	ND		07/18/22	16:31	BP	467655
Vinyl Acetate	ETO15	10.00	7.6	18	ND	ND		07/18/22	16:31	BP	467655
Carbon Tetrachloride	ETO15	10.00	11	31	ND	ND		07/18/22	16:31	BP	467655
1,1,1-Trichloroethane	ETO15	10.00	7.9	27	260	47.62		07/18/22	16:31	BP	467655
2-Butanone (MEK)	ETO15	10.00	3.9	15	ND	ND		07/18/22	16:31	BP	467655
Ethyl Acetate	ETO15	10.00	4.8	18	ND	ND		07/18/22	16:31	BP	467655
Tetrahydrofuran	ETO15	10.00	4.5	15	ND	ND		07/18/22	16:31	BP	467655
Benzene	ETO15	10.00	4.4	16	ND	ND		07/18/22	16:31	BP	467655
TAME	ETO15	10.00	6.7	21	ND	ND		07/18/22	16:31	BP	467655
1,2-Dichloroethane (EDC)	ETO15	10.00	4.2	20	ND	ND		07/18/22	16:31	BP	467655
Trichloroethylene	ETO15	10.00	8.1	27	ND	ND		07/18/22	16:31	BP	467655
1,2-Dichloropropane	ETO15	10.00	7.6	23	ND	ND		07/18/22	16:31	BP	467655
Bromodichloromethane	ETO15	10.00	7.4	34	ND	ND		07/18/22	16:31	BP	467655
1,4-Dioxane	ETO15	10.00	18	36	ND	ND		07/18/22	16:31	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-1 @ 6'	**Lab Sample ID:**	2207125-001A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 13:00	**Certified Clean WO # :**	
Canister/Tube ID:	N1433	**Received PSI :**	12.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	10.00	11	23	ND	ND		07/18/22	16:31	BP	467655
Toluene	ETO15	10.00	7.5	19	ND	ND		07/18/22	16:31	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	10.00	7.5	21	ND	ND		07/18/22	16:31	BP	467655
cis-1,3-Dichloropropene	ETO15	10.00	4.2	23	ND	ND		07/18/22	16:31	BP	467655
Tetrachloroethylene	ETO15	10.00	15	34	1400	206.49		07/18/22	16:31	BP	467655
1,1,2-Trichloroethane	ETO15	10.00	5.8	27	ND	ND		07/18/22	16:31	BP	467655
Dibromochloromethane	ETO15	10.00	11	43	ND	ND		07/18/22	16:31	BP	467655
1,2-Dibromoethane (EDB)	ETO15	10.00	7.4	38	ND	ND		07/18/22	16:31	BP	467655
2-Hexanone	ETO15	10.00	6.5	21	ND	ND		07/18/22	16:31	BP	467655
Ethyl Benzene	ETO15	10.00	6.3	22	ND	ND		07/18/22	16:31	BP	467655
Chlorobenzene	ETO15	10.00	6.0	23	ND	ND		07/18/22	16:31	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	10.00	8.4	34	ND	ND		07/18/22	16:31	BP	467655
m,p-Xylene	ETO15	10.00	9.8	22	ND	ND		07/18/22	16:31	BP	467655
o-Xylene	ETO15	10.00	3.0	22	ND	ND		07/18/22	16:31	BP	467655
Styrene	ETO15	10.00	4.6	21	ND	ND		07/18/22	16:31	BP	467655
Bromoform	ETO15	10.00	13	52	ND	ND		07/18/22	16:31	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	10.00	8.2	34	ND	ND		07/18/22	16:31	BP	467655
4-Ethyl Toluene	ETO15	10.00	5.5	25	ND	ND		07/18/22	16:31	BP	467655
1,3,5-Trimethylbenzene	ETO15	10.00	3.0	25	ND	ND		07/18/22	16:31	BP	467655
1,2,4-Trimethylbenzene	ETO15	10.00	6.0	25	ND	ND		07/18/22	16:31	BP	467655
1,4-Dichlorobenzene	ETO15	10.00	7.5	30	ND	ND		07/18/22	16:31	BP	467655
1,3-Dichlorobenzene	ETO15	10.00	13	30	ND	ND		07/18/22	16:31	BP	467655
1,2-Dichlorobenzene	ETO15	10.00	11	30	ND	ND		07/18/22	16:31	BP	467655
Hexachlorobutadiene	ETO15	10.00	19	53	ND	ND		07/18/22	16:31	BP	467655
1,2,4-Trichlorobenzene	ETO15	10.00	22	37	ND	ND		07/18/22	16:31	BP	467655
Naphthalene	ETO15	10.00	13	26	ND	ND		07/18/22	16:31	BP	467655
(S) 4-Bromofluorobenzene	ETO15	10.00	50	150	89 %			07/18/22	16:31	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-1 @ 10'	**Lab Sample ID:**	2207125-002A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 13:22	**Certified Clean WO # :**	
Canister/Tube ID:	R3561	**Received PSI :**	14.2
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	10.00	16	25	ND	ND		07/18/22	16:56	BP	467655
1,1-Difluoroethane	ETO15	10.00	3.5	140	ND	ND		07/18/22	16:56	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	10.00	14	35	ND	ND		07/18/22	16:56	BP	467655
Chloromethane	ETO15	10.00	20	41	ND	ND		07/18/22	16:56	BP	467655
Vinyl Chloride	ETO15	10.00	2.3	13	ND	ND		07/18/22	16:56	BP	467655
1,3-Butadiene	ETO15	10.00	3.4	11	ND	ND		07/18/22	16:56	BP	467655
Bromomethane	ETO15	10.00	6.6	19	ND	ND		07/18/22	16:56	BP	467655
Chloroethane	ETO15	10.00	8.1	13	ND	ND		07/18/22	16:56	BP	467655
Trichlorofluoromethane	ETO15	10.00	5.6	28	ND	ND		07/18/22	16:56	BP	467655
1,1-Dichloroethene	ETO15	10.00	8.3	20	ND	ND		07/18/22	16:56	BP	467655
Freon 113	ETO15	10.00	10	38	ND	ND		07/18/22	16:56	BP	467655
Carbon Disulfide	ETO15	10.00	3.7	16	ND	ND		07/18/22	16:56	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	10.00	13	120	ND	ND		07/18/22	16:56	BP	467655
Methylene Chloride	ETO15	10.00	7.0	100	ND	ND		07/18/22	16:56	BP	467655
Acetone	ETO15	10.00	4.0	120	ND	ND		07/18/22	16:56	BP	467655
trans-1,2-Dichloroethene	ETO15	10.00	4.8	20	ND	ND		07/18/22	16:56	BP	467655
Hexane	ETO15	10.00	4.6	18	ND	ND		07/18/22	16:56	BP	467655
MTBE	ETO15	10.00	4.4	18	ND	ND		07/18/22	16:56	BP	467655
tert-Butanol	ETO15	10.00	6.2	15	ND	ND		07/18/22	16:56	BP	467655
Diisopropyl ether (DIPE)	ETO15	10.00	7.4	21	ND	ND		07/18/22	16:56	BP	467655
1,1-Dichloroethane	ETO15	10.00	5.4	20	ND	ND		07/18/22	16:56	BP	467655
ETBE	ETO15	10.00	3.3	21	ND	ND		07/18/22	16:56	BP	467655
cis-1,2-Dichloroethene	ETO15	10.00	8.3	20	ND	ND		07/18/22	16:56	BP	467655
Chloroform	ETO15	10.00	9.7	24	ND	ND		07/18/22	16:56	BP	467655
Vinyl Acetate	ETO15	10.00	7.6	18	ND	ND		07/18/22	16:56	BP	467655
Carbon Tetrachloride	ETO15	10.00	11	31	ND	ND		07/18/22	16:56	BP	467655
1,1,1-Trichloroethane	ETO15	10.00	7.9	27	350	64.10		07/18/22	16:56	BP	467655
2-Butanone (MEK)	ETO15	10.00	3.9	15	ND	ND		07/18/22	16:56	BP	467655
Ethyl Acetate	ETO15	10.00	4.8	18	ND	ND		07/18/22	16:56	BP	467655
Tetrahydrofuran	ETO15	10.00	4.5	15	ND	ND		07/18/22	16:56	BP	467655
Benzene	ETO15	10.00	4.4	16	ND	ND		07/18/22	16:56	BP	467655
TAME	ETO15	10.00	6.7	21	ND	ND		07/18/22	16:56	BP	467655
1,2-Dichloroethane (EDC)	ETO15	10.00	4.2	20	ND	ND		07/18/22	16:56	BP	467655
Trichloroethylene	ETO15	10.00	8.1	27	ND	ND		07/18/22	16:56	BP	467655
1,2-Dichloropropane	ETO15	10.00	7.6	23	ND	ND		07/18/22	16:56	BP	467655
Bromodichloromethane	ETO15	10.00	7.4	34	ND	ND		07/18/22	16:56	BP	467655
1,4-Dioxane	ETO15	10.00	18	36	ND	ND		07/18/22	16:56	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-1 @ 10'	**Lab Sample ID:**	2207125-002A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 13:22	**Certified Clean WO # :**	
Canister/Tube ID:	R3561	**Received PSI :**	14.2
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	10.00	11	23	ND	ND		07/18/22	16:56	BP	467655
Toluene	ETO15	10.00	7.5	19	ND	ND		07/18/22	16:56	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	10.00	7.5	21	ND	ND		07/18/22	16:56	BP	467655
cis-1,3-Dichloropropene	ETO15	10.00	4.2	23	ND	ND		07/18/22	16:56	BP	467655
Tetrachloroethylene	ETO15	10.00	15	34	1800	265.49		07/18/22	16:56	BP	467655
1,1,2-Trichloroethane	ETO15	10.00	5.8	27	ND	ND		07/18/22	16:56	BP	467655
Dibromochloromethane	ETO15	10.00	11	43	ND	ND		07/18/22	16:56	BP	467655
1,2-Dibromoethane (EDB)	ETO15	10.00	7.4	38	ND	ND		07/18/22	16:56	BP	467655
2-Hexanone	ETO15	10.00	6.5	21	ND	ND		07/18/22	16:56	BP	467655
Ethyl Benzene	ETO15	10.00	6.3	22	ND	ND		07/18/22	16:56	BP	467655
Chlorobenzene	ETO15	10.00	6.0	23	ND	ND		07/18/22	16:56	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	10.00	8.4	34	ND	ND		07/18/22	16:56	BP	467655
m,p-Xylene	ETO15	10.00	9.8	22	ND	ND		07/18/22	16:56	BP	467655
o-Xylene	ETO15	10.00	3.0	22	ND	ND		07/18/22	16:56	BP	467655
Styrene	ETO15	10.00	4.6	21	ND	ND		07/18/22	16:56	BP	467655
Bromoform	ETO15	10.00	13	52	ND	ND		07/18/22	16:56	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	10.00	8.2	34	ND	ND		07/18/22	16:56	BP	467655
4-Ethyl Toluene	ETO15	10.00	5.5	25	ND	ND		07/18/22	16:56	BP	467655
1,3,5-Trimethylbenzene	ETO15	10.00	3.0	25	ND	ND		07/18/22	16:56	BP	467655
1,2,4-Trimethylbenzene	ETO15	10.00	6.0	25	ND	ND		07/18/22	16:56	BP	467655
1,4-Dichlorobenzene	ETO15	10.00	7.5	30	ND	ND		07/18/22	16:56	BP	467655
1,3-Dichlorobenzene	ETO15	10.00	13	30	ND	ND		07/18/22	16:56	BP	467655
1,2-Dichlorobenzene	ETO15	10.00	11	30	ND	ND		07/18/22	16:56	BP	467655
Hexachlorobutadiene	ETO15	10.00	19	53	ND	ND		07/18/22	16:56	BP	467655
1,2,4-Trichlorobenzene	ETO15	10.00	22	37	ND	ND		07/18/22	16:56	BP	467655
Naphthalene	ETO15	10.00	13	26	ND	ND		07/18/22	16:56	BP	467655
(S) 4-Bromofluorobenzene	ETO15	10.00	50	150	89 %			07/18/22	16:56	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-2 @ 6'	**Lab Sample ID:**	2207125-003A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 14:26	**Certified Clean WO # :**	
Canister/Tube ID:	A12215	**Received PSI :**	14.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		07/18/22	14:50	BP	467655
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		07/18/22	14:50	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		07/18/22	14:50	BP	467655
Chloromethane	ETO15	30.00	61	120	ND	ND		07/18/22	14:50	BP	467655
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		07/18/22	14:50	BP	467655
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		07/18/22	14:50	BP	467655
Bromomethane	ETO15	30.00	20	58	ND	ND		07/18/22	14:50	BP	467655
Chloroethane	ETO15	30.00	24	40	ND	ND		07/18/22	14:50	BP	467655
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		07/18/22	14:50	BP	467655
1,1-Dichloroethene	ETO15	30.00	25	60	ND	ND		07/18/22	14:50	BP	467655
Freon 113	ETO15	30.00	31	110	ND	ND		07/18/22	14:50	BP	467655
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		07/18/22	14:50	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		07/18/22	14:50	BP	467655
Methylene Chloride	ETO15	30.00	21	310	ND	ND		07/18/22	14:50	BP	467655
Acetone	ETO15	30.00	12	360	ND	ND		07/18/22	14:50	BP	467655
trans-1,2-Dichloroethene	ETO15	30.00	14	59	ND	ND		07/18/22	14:50	BP	467655
Hexane	ETO15	30.00	14	53	ND	ND		07/18/22	14:50	BP	467655
MTBE	ETO15	30.00	13	54	ND	ND		07/18/22	14:50	BP	467655
tert-Butanol	ETO15	30.00	19	45	ND	ND		07/18/22	14:50	BP	467655
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		07/18/22	14:50	BP	467655
1,1-Dichloroethane	ETO15	30.00	16	61	1300	320.99		07/18/22	14:50	BP	467655
ETBE	ETO15	30.00	9.8	63	ND	ND		07/18/22	14:50	BP	467655
cis-1,2-Dichloroethene	ETO15	30.00	25	59	2900	732.32		07/18/22	14:50	BP	467655
Chloroform	ETO15	30.00	29	73	ND	ND		07/18/22	14:50	BP	467655
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		07/18/22	14:50	BP	467655
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		07/18/22	14:50	BP	467655
1,1,1-Trichloroethane	ETO15	30.00	24	82	11000	2,014.65	E	07/18/22	14:50	BP	467655
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		07/18/22	14:50	BP	467655
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		07/18/22	14:50	BP	467655
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		07/18/22	14:50	BP	467655
Benzene	ETO15	30.00	13	48	ND	ND		07/18/22	14:50	BP	467655
TAME	ETO15	30.00	20	63	ND	ND		07/18/22	14:50	BP	467655
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		07/18/22	14:50	BP	467655
Trichloroethylene	ETO15	30.00	24	81	1900	353.82		07/18/22	14:50	BP	467655
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		07/18/22	14:50	BP	467655
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		07/18/22	14:50	BP	467655
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		07/18/22	14:50	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-2 @ 6'	**Lab Sample ID:**	2207125-003A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 14:26	**Certified Clean WO # :**	
Canister/Tube ID:	A12215	**Received PSI :**	14.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method: TO15-P **Prep Batch Date/Time:** 7/18/22 12:00:00PM
Prep Batch ID: 1143357 **Prep Analyst:** BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		07/18/22	14:50	BP	467655
Toluene	ETO15	30.00	23	57	ND	ND		07/18/22	14:50	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		07/18/22	14:50	BP	467655
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		07/18/22	14:50	BP	467655
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		07/18/22	14:50	BP	467655
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		07/18/22	14:50	BP	467655
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		07/18/22	14:50	BP	467655
2-Hexanone	ETO15	30.00	20	62	ND	ND		07/18/22	14:50	BP	467655
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		07/18/22	14:50	BP	467655
Chlorobenzene	ETO15	30.00	18	69	ND	ND		07/18/22	14:50	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		07/18/22	14:50	BP	467655
m,p-Xylene	ETO15	30.00	29	65	ND	ND		07/18/22	14:50	BP	467655
o-Xylene	ETO15	30.00	9.1	65	ND	ND		07/18/22	14:50	BP	467655
Styrene	ETO15	30.00	14	64	ND	ND		07/18/22	14:50	BP	467655
Bromoform	ETO15	30.00	39	160	ND	ND		07/18/22	14:50	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		07/18/22	14:50	BP	467655
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		07/18/22	14:50	BP	467655
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		07/18/22	14:50	BP	467655
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		07/18/22	14:50	BP	467655
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		07/18/22	14:50	BP	467655
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		07/18/22	14:50	BP	467655
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		07/18/22	14:50	BP	467655
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		07/18/22	14:50	BP	467655
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		07/18/22	14:50	BP	467655
Naphthalene	ETO15	30.00	38	79	ND	ND		07/18/22	14:50	BP	467655
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	89 %			07/18/22	14:50	BP	467655

Prep Method: TO15-P **Prep Batch Date/Time:** 7/21/22 9:00:00AM
Prep Batch ID: 1143417 **Prep Analyst:** BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Tetrachloroethylene	ETO15	400.0	580	1400	63000	9,292.04		07/21/22	20:35	BA	467724
(S) 4-Bromofluorobenzene	ETO15	400.0	50	150	91 %			07/21/22	20:35	BA	467724

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-3 @ 6'	**Lab Sample ID:**	2207125-004A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 12:56	**Certified Clean WO # :**	
Canister/Tube ID:	R3579	**Received PSI :**	13.6
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	60.00	94	150	ND	ND		07/18/22	17:21	BP	467655
1,1-Difluoroethane	ETO15	60.00	21	810	ND	ND		07/18/22	17:21	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	60.00	84	210	ND	ND		07/18/22	17:21	BP	467655
Chloromethane	ETO15	60.00	120	250	ND	ND		07/18/22	17:21	BP	467655
Vinyl Chloride	ETO15	60.00	14	77	ND	ND		07/18/22	17:21	BP	467655
1,3-Butadiene	ETO15	60.00	20	66	ND	ND		07/18/22	17:21	BP	467655
Bromomethane	ETO15	60.00	39	120	ND	ND		07/18/22	17:21	BP	467655
Chloroethane	ETO15	60.00	49	79	ND	ND		07/18/22	17:21	BP	467655
Trichlorofluoromethane	ETO15	60.00	33	170	ND	ND		07/18/22	17:21	BP	467655
1,1-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	17:21	BP	467655
Freon 113	ETO15	60.00	61	230	ND	ND		07/18/22	17:21	BP	467655
Carbon Disulfide	ETO15	60.00	22	93	ND	ND		07/18/22	17:21	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	60.00	77	740	ND	ND		07/18/22	17:21	BP	467655
Methylene Chloride	ETO15	60.00	42	620	ND	ND		07/18/22	17:21	BP	467655
Acetone	ETO15	60.00	24	710	ND	ND		07/18/22	17:21	BP	467655
trans-1,2-Dichloroethene	ETO15	60.00	29	120	ND	ND		07/18/22	17:21	BP	467655
Hexane	ETO15	60.00	28	110	ND	ND		07/18/22	17:21	BP	467655
MTBE	ETO15	60.00	27	110	ND	ND		07/18/22	17:21	BP	467655
tert-Butanol	ETO15	60.00	37	91	ND	ND		07/18/22	17:21	BP	467655
Diisopropyl ether (DIPE)	ETO15	60.00	44	130	ND	ND		07/18/22	17:21	BP	467655
1,1-Dichloroethane	ETO15	60.00	33	120	ND	ND		07/18/22	17:21	BP	467655
ETBE	ETO15	60.00	20	130	ND	ND		07/18/22	17:21	BP	467655
cis-1,2-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	17:21	BP	467655
Chloroform	ETO15	60.00	58	150	ND	ND		07/18/22	17:21	BP	467655
Vinyl Acetate	ETO15	60.00	45	110	ND	ND		07/18/22	17:21	BP	467655
Carbon Tetrachloride	ETO15	60.00	66	190	ND	ND		07/18/22	17:21	BP	467655
1,1,1-Trichloroethane	ETO15	60.00	48	160	1400	256.41		07/18/22	17:21	BP	467655
2-Butanone (MEK)	ETO15	60.00	23	89	ND	ND		07/18/22	17:21	BP	467655
Ethyl Acetate	ETO15	60.00	29	110	ND	ND		07/18/22	17:21	BP	467655
Tetrahydrofuran	ETO15	60.00	27	89	ND	ND		07/18/22	17:21	BP	467655
Benzene	ETO15	60.00	26	96	ND	ND		07/18/22	17:21	BP	467655
TAME	ETO15	60.00	40	130	ND	ND		07/18/22	17:21	BP	467655
1,2-Dichloroethane (EDC)	ETO15	60.00	25	120	ND	ND		07/18/22	17:21	BP	467655
Trichloroethylene	ETO15	60.00	48	160	300	55.87		07/18/22	17:21	BP	467655
1,2-Dichloropropane	ETO15	60.00	46	140	ND	ND		07/18/22	17:21	BP	467655
Bromodichloromethane	ETO15	60.00	45	200	ND	ND		07/18/22	17:21	BP	467655
1,4-Dioxane	ETO15	60.00	110	220	ND	ND		07/18/22	17:21	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-3 @ 6'	**Lab Sample ID:**	2207125-004A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 12:56	**Certified Clean WO # :**	
Canister/Tube ID:	R3579	**Received PSI :**	13.6
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	60.00	64	140	ND	ND		07/18/22	17:21	BP	467655
Toluene	ETO15	60.00	45	110	ND	ND		07/18/22	17:21	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	60.00	45	120	ND	ND		07/18/22	17:21	BP	467655
cis-1,3-Dichloropropene	ETO15	60.00	25	140	ND	ND		07/18/22	17:21	BP	467655
Tetrachloroethylene	ETO15	60.00	87	200	13000	1,917.40		07/18/22	17:21	BP	467655
1,1,2-Trichloroethane	ETO15	60.00	35	160	ND	ND		07/18/22	17:21	BP	467655
Dibromochloromethane	ETO15	60.00	67	260	ND	ND		07/18/22	17:21	BP	467655
1,2-Dibromoethane (EDB)	ETO15	60.00	44	230	ND	ND		07/18/22	17:21	BP	467655
2-Hexanone	ETO15	60.00	39	120	ND	ND		07/18/22	17:21	BP	467655
Ethyl Benzene	ETO15	60.00	38	130	ND	ND		07/18/22	17:21	BP	467655
Chlorobenzene	ETO15	60.00	36	140	ND	ND		07/18/22	17:21	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	60.00	50	210	ND	ND		07/18/22	17:21	BP	467655
m,p-Xylene	ETO15	60.00	59	130	ND	ND		07/18/22	17:21	BP	467655
o-Xylene	ETO15	60.00	18	130	ND	ND		07/18/22	17:21	BP	467655
Styrene	ETO15	60.00	28	130	ND	ND		07/18/22	17:21	BP	467655
Bromoform	ETO15	60.00	78	310	ND	ND		07/18/22	17:21	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	60.00	49	210	ND	ND		07/18/22	17:21	BP	467655
4-Ethyl Toluene	ETO15	60.00	33	150	ND	ND		07/18/22	17:21	BP	467655
1,3,5-Trimethylbenzene	ETO15	60.00	18	150	ND	ND		07/18/22	17:21	BP	467655
1,2,4-Trimethylbenzene	ETO15	60.00	36	150	ND	ND		07/18/22	17:21	BP	467655
1,4-Dichlorobenzene	ETO15	60.00	45	180	ND	ND		07/18/22	17:21	BP	467655
1,3-Dichlorobenzene	ETO15	60.00	80	180	ND	ND		07/18/22	17:21	BP	467655
1,2-Dichlorobenzene	ETO15	60.00	64	180	ND	ND		07/18/22	17:21	BP	467655
Hexachlorobutadiene	ETO15	60.00	110	320	ND	ND		07/18/22	17:21	BP	467655
1,2,4-Trichlorobenzene	ETO15	60.00	130	220	ND	ND		07/18/22	17:21	BP	467655
Naphthalene	ETO15	60.00	76	160	ND	ND		07/18/22	17:21	BP	467655
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	88 %			07/18/22	17:21	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-3 @ 10'	**Lab Sample ID:**	2207125-005A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 17:04	**Certified Clean WO # :**	
Canister/Tube ID:	A12175	**Received PSI :**	12.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	60.00	94	150	ND	ND		07/18/22	17:46	BP	467655
1,1-Difluoroethane	ETO15	60.00	21	810	ND	ND		07/18/22	17:46	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	60.00	84	210	ND	ND		07/18/22	17:46	BP	467655
Chloromethane	ETO15	60.00	120	250	ND	ND		07/18/22	17:46	BP	467655
Vinyl Chloride	ETO15	60.00	14	77	ND	ND		07/18/22	17:46	BP	467655
1,3-Butadiene	ETO15	60.00	20	66	ND	ND		07/18/22	17:46	BP	467655
Bromomethane	ETO15	60.00	39	120	ND	ND		07/18/22	17:46	BP	467655
Chloroethane	ETO15	60.00	49	79	ND	ND		07/18/22	17:46	BP	467655
Trichlorofluoromethane	ETO15	60.00	33	170	ND	ND		07/18/22	17:46	BP	467655
1,1-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	17:46	BP	467655
Freon 113	ETO15	60.00	61	230	ND	ND		07/18/22	17:46	BP	467655
Carbon Disulfide	ETO15	60.00	22	93	ND	ND		07/18/22	17:46	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	60.00	77	740	ND	ND		07/18/22	17:46	BP	467655
Methylene Chloride	ETO15	60.00	42	620	ND	ND		07/18/22	17:46	BP	467655
Acetone	ETO15	60.00	24	710	ND	ND		07/18/22	17:46	BP	467655
trans-1,2-Dichloroethene	ETO15	60.00	29	120	ND	ND		07/18/22	17:46	BP	467655
Hexane	ETO15	60.00	28	110	ND	ND		07/18/22	17:46	BP	467655
MTBE	ETO15	60.00	27	110	ND	ND		07/18/22	17:46	BP	467655
tert-Butanol	ETO15	60.00	37	91	ND	ND		07/18/22	17:46	BP	467655
Diisopropyl ether (DIPE)	ETO15	60.00	44	130	ND	ND		07/18/22	17:46	BP	467655
1,1-Dichloroethane	ETO15	60.00	33	120	ND	ND		07/18/22	17:46	BP	467655
ETBE	ETO15	60.00	20	130	ND	ND		07/18/22	17:46	BP	467655
cis-1,2-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	17:46	BP	467655
Chloroform	ETO15	60.00	58	150	ND	ND		07/18/22	17:46	BP	467655
Vinyl Acetate	ETO15	60.00	45	110	ND	ND		07/18/22	17:46	BP	467655
Carbon Tetrachloride	ETO15	60.00	66	190	ND	ND		07/18/22	17:46	BP	467655
1,1,1-Trichloroethane	ETO15	60.00	48	160	1100	201.47		07/18/22	17:46	BP	467655
2-Butanone (MEK)	ETO15	60.00	23	89	ND	ND		07/18/22	17:46	BP	467655
Ethyl Acetate	ETO15	60.00	29	110	ND	ND		07/18/22	17:46	BP	467655
Tetrahydrofuran	ETO15	60.00	27	89	ND	ND		07/18/22	17:46	BP	467655
Benzene	ETO15	60.00	26	96	ND	ND		07/18/22	17:46	BP	467655
TAME	ETO15	60.00	40	130	ND	ND		07/18/22	17:46	BP	467655
1,2-Dichloroethane (EDC)	ETO15	60.00	25	120	ND	ND		07/18/22	17:46	BP	467655
Trichloroethylene	ETO15	60.00	48	160	280	52.14		07/18/22	17:46	BP	467655
1,2-Dichloropropane	ETO15	60.00	46	140	ND	ND		07/18/22	17:46	BP	467655
Bromodichloromethane	ETO15	60.00	45	200	ND	ND		07/18/22	17:46	BP	467655
1,4-Dioxane	ETO15	60.00	110	220	ND	ND		07/18/22	17:46	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-3 @ 10'	**Lab Sample ID:**	2207125-005A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 17:04	**Certified Clean WO # :**	
Canister/Tube ID:	A12175	**Received PSI :**	12.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	60.00	64	140	ND	ND		07/18/22	17:46	BP	467655
Toluene	ETO15	60.00	45	110	ND	ND		07/18/22	17:46	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	60.00	45	120	ND	ND		07/18/22	17:46	BP	467655
cis-1,3-Dichloropropene	ETO15	60.00	25	140	ND	ND		07/18/22	17:46	BP	467655
Tetrachloroethylene	ETO15	60.00	87	200	9800	1,445.43		07/18/22	17:46	BP	467655
1,1,2-Trichloroethane	ETO15	60.00	35	160	ND	ND		07/18/22	17:46	BP	467655
Dibromochloromethane	ETO15	60.00	67	260	ND	ND		07/18/22	17:46	BP	467655
1,2-Dibromoethane (EDB)	ETO15	60.00	44	230	ND	ND		07/18/22	17:46	BP	467655
2-Hexanone	ETO15	60.00	39	120	ND	ND		07/18/22	17:46	BP	467655
Ethyl Benzene	ETO15	60.00	38	130	ND	ND		07/18/22	17:46	BP	467655
Chlorobenzene	ETO15	60.00	36	140	ND	ND		07/18/22	17:46	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	60.00	50	210	ND	ND		07/18/22	17:46	BP	467655
m,p-Xylene	ETO15	60.00	59	130	ND	ND		07/18/22	17:46	BP	467655
o-Xylene	ETO15	60.00	18	130	ND	ND		07/18/22	17:46	BP	467655
Styrene	ETO15	60.00	28	130	ND	ND		07/18/22	17:46	BP	467655
Bromoform	ETO15	60.00	78	310	ND	ND		07/18/22	17:46	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	60.00	49	210	ND	ND		07/18/22	17:46	BP	467655
4-Ethyl Toluene	ETO15	60.00	33	150	ND	ND		07/18/22	17:46	BP	467655
1,3,5-Trimethylbenzene	ETO15	60.00	18	150	ND	ND		07/18/22	17:46	BP	467655
1,2,4-Trimethylbenzene	ETO15	60.00	36	150	ND	ND		07/18/22	17:46	BP	467655
1,4-Dichlorobenzene	ETO15	60.00	45	180	ND	ND		07/18/22	17:46	BP	467655
1,3-Dichlorobenzene	ETO15	60.00	80	180	ND	ND		07/18/22	17:46	BP	467655
1,2-Dichlorobenzene	ETO15	60.00	64	180	ND	ND		07/18/22	17:46	BP	467655
Hexachlorobutadiene	ETO15	60.00	110	320	ND	ND		07/18/22	17:46	BP	467655
1,2,4-Trichlorobenzene	ETO15	60.00	130	220	ND	ND		07/18/22	17:46	BP	467655
Naphthalene	ETO15	60.00	76	160	ND	ND		07/18/22	17:46	BP	467655
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	89 %			07/18/22	17:46	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-4 @ 6'	**Lab Sample ID:**	2207125-006A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:36	**Certified Clean WO # :**	
Canister/Tube ID:	R3598	**Received PSI :**	14.1
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	60.00	94	150	ND	ND		07/18/22	20:01	BP	467655
1,1-Difluoroethane	ETO15	60.00	21	810	ND	ND		07/18/22	20:01	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	60.00	84	210	ND	ND		07/18/22	20:01	BP	467655
Chloromethane	ETO15	60.00	120	250	ND	ND		07/18/22	20:01	BP	467655
Vinyl Chloride	ETO15	60.00	14	77	ND	ND		07/18/22	20:01	BP	467655
1,3-Butadiene	ETO15	60.00	20	66	ND	ND		07/18/22	20:01	BP	467655
Bromomethane	ETO15	60.00	39	120	ND	ND		07/18/22	20:01	BP	467655
Chloroethane	ETO15	60.00	49	79	ND	ND		07/18/22	20:01	BP	467655
Trichlorofluoromethane	ETO15	60.00	33	170	ND	ND		07/18/22	20:01	BP	467655
1,1-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	20:01	BP	467655
Freon 113	ETO15	60.00	61	230	ND	ND		07/18/22	20:01	BP	467655
Carbon Disulfide	ETO15	60.00	22	93	ND	ND		07/18/22	20:01	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	60.00	77	740	ND	ND		07/18/22	20:01	BP	467655
Methylene Chloride	ETO15	60.00	42	620	ND	ND		07/18/22	20:01	BP	467655
Acetone	ETO15	60.00	24	710	ND	ND		07/18/22	20:01	BP	467655
trans-1,2-Dichloroethene	ETO15	60.00	29	120	ND	ND		07/18/22	20:01	BP	467655
Hexane	ETO15	60.00	28	110	ND	ND		07/18/22	20:01	BP	467655
MTBE	ETO15	60.00	27	110	ND	ND		07/18/22	20:01	BP	467655
tert-Butanol	ETO15	60.00	37	91	ND	ND		07/18/22	20:01	BP	467655
Diisopropyl ether (DIPE)	ETO15	60.00	44	130	ND	ND		07/18/22	20:01	BP	467655
1,1-Dichloroethane	ETO15	60.00	33	120	ND	ND		07/18/22	20:01	BP	467655
ETBE	ETO15	60.00	20	130	ND	ND		07/18/22	20:01	BP	467655
cis-1,2-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	20:01	BP	467655
Chloroform	ETO15	60.00	58	150	ND	ND		07/18/22	20:01	BP	467655
Vinyl Acetate	ETO15	60.00	45	110	ND	ND		07/18/22	20:01	BP	467655
Carbon Tetrachloride	ETO15	60.00	66	190	ND	ND		07/18/22	20:01	BP	467655
1,1,1-Trichloroethane	ETO15	60.00	48	160	1900	347.99		07/18/22	20:01	BP	467655
2-Butanone (MEK)	ETO15	60.00	23	89	ND	ND		07/18/22	20:01	BP	467655
Ethyl Acetate	ETO15	60.00	29	110	ND	ND		07/18/22	20:01	BP	467655
Tetrahydrofuran	ETO15	60.00	27	89	ND	ND		07/18/22	20:01	BP	467655
Benzene	ETO15	60.00	26	96	ND	ND		07/18/22	20:01	BP	467655
TAME	ETO15	60.00	40	130	ND	ND		07/18/22	20:01	BP	467655
1,2-Dichloroethane (EDC)	ETO15	60.00	25	120	ND	ND		07/18/22	20:01	BP	467655
Trichloroethylene	ETO15	60.00	48	160	ND	ND		07/18/22	20:01	BP	467655
1,2-Dichloropropane	ETO15	60.00	46	140	ND	ND		07/18/22	20:01	BP	467655
Bromodichloromethane	ETO15	60.00	45	200	ND	ND		07/18/22	20:01	BP	467655
1,4-Dioxane	ETO15	60.00	110	220	ND	ND		07/18/22	20:01	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-4 @ 6'	**Lab Sample ID:**	2207125-006A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:36	**Certified Clean WO # :**	
Canister/Tube ID:	R3598	**Received PSI :**	14.1
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	60.00	64	140	ND	ND		07/18/22	20:01	BP	467655
Toluene	ETO15	60.00	45	110	ND	ND		07/18/22	20:01	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	60.00	45	120	ND	ND		07/18/22	20:01	BP	467655
cis-1,3-Dichloropropene	ETO15	60.00	25	140	ND	ND		07/18/22	20:01	BP	467655
Tetrachloroethylene	ETO15	60.00	87	200	17000	2,507.37		07/18/22	20:01	BP	467655
1,1,2-Trichloroethane	ETO15	60.00	35	160	ND	ND		07/18/22	20:01	BP	467655
Dibromochloromethane	ETO15	60.00	67	260	ND	ND		07/18/22	20:01	BP	467655
1,2-Dibromoethane (EDB)	ETO15	60.00	44	230	ND	ND		07/18/22	20:01	BP	467655
2-Hexanone	ETO15	60.00	39	120	ND	ND		07/18/22	20:01	BP	467655
Ethyl Benzene	ETO15	60.00	38	130	ND	ND		07/18/22	20:01	BP	467655
Chlorobenzene	ETO15	60.00	36	140	ND	ND		07/18/22	20:01	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	60.00	50	210	ND	ND		07/18/22	20:01	BP	467655
m,p-Xylene	ETO15	60.00	59	130	ND	ND		07/18/22	20:01	BP	467655
o-Xylene	ETO15	60.00	18	130	ND	ND		07/18/22	20:01	BP	467655
Styrene	ETO15	60.00	28	130	ND	ND		07/18/22	20:01	BP	467655
Bromoform	ETO15	60.00	78	310	ND	ND		07/18/22	20:01	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	60.00	49	210	ND	ND		07/18/22	20:01	BP	467655
4-Ethyl Toluene	ETO15	60.00	33	150	ND	ND		07/18/22	20:01	BP	467655
1,3,5-Trimethylbenzene	ETO15	60.00	18	150	ND	ND		07/18/22	20:01	BP	467655
1,2,4-Trimethylbenzene	ETO15	60.00	36	150	ND	ND		07/18/22	20:01	BP	467655
1,4-Dichlorobenzene	ETO15	60.00	45	180	ND	ND		07/18/22	20:01	BP	467655
1,3-Dichlorobenzene	ETO15	60.00	80	180	ND	ND		07/18/22	20:01	BP	467655
1,2-Dichlorobenzene	ETO15	60.00	64	180	ND	ND		07/18/22	20:01	BP	467655
Hexachlorobutadiene	ETO15	60.00	110	320	ND	ND		07/18/22	20:01	BP	467655
1,2,4-Trichlorobenzene	ETO15	60.00	130	220	ND	ND		07/18/22	20:01	BP	467655
Naphthalene	ETO15	60.00	76	160	ND	ND		07/18/22	20:01	BP	467655
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	85 %			07/18/22	20:01	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-4 @ 10'	**Lab Sample ID:**	2207125-007A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 17:07	**Certified Clean WO # :**	
Canister/Tube ID:	A12262	**Received PSI :**	12.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22 12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	60.00	94	150	ND	ND		07/18/22	18:36	BP	467655
1,1-Difluoroethane	ETO15	60.00	21	810	ND	ND		07/18/22	18:36	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	60.00	84	210	ND	ND		07/18/22	18:36	BP	467655
Chloromethane	ETO15	60.00	120	250	ND	ND		07/18/22	18:36	BP	467655
Vinyl Chloride	ETO15	60.00	14	77	ND	ND		07/18/22	18:36	BP	467655
1,3-Butadiene	ETO15	60.00	20	66	ND	ND		07/18/22	18:36	BP	467655
Bromomethane	ETO15	60.00	39	120	ND	ND		07/18/22	18:36	BP	467655
Chloroethane	ETO15	60.00	49	79	ND	ND		07/18/22	18:36	BP	467655
Trichlorofluoromethane	ETO15	60.00	33	170	ND	ND		07/18/22	18:36	BP	467655
1,1-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	18:36	BP	467655
Freon 113	ETO15	60.00	61	230	ND	ND		07/18/22	18:36	BP	467655
Carbon Disulfide	ETO15	60.00	22	93	ND	ND		07/18/22	18:36	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	60.00	77	740	ND	ND		07/18/22	18:36	BP	467655
Methylene Chloride	ETO15	60.00	42	620	ND	ND		07/18/22	18:36	BP	467655
Acetone	ETO15	60.00	24	710	ND	ND		07/18/22	18:36	BP	467655
trans-1,2-Dichloroethene	ETO15	60.00	29	120	ND	ND		07/18/22	18:36	BP	467655
Hexane	ETO15	60.00	28	110	ND	ND		07/18/22	18:36	BP	467655
MTBE	ETO15	60.00	27	110	ND	ND		07/18/22	18:36	BP	467655
tert-Butanol	ETO15	60.00	37	91	ND	ND		07/18/22	18:36	BP	467655
Diisopropyl ether (DIPE)	ETO15	60.00	44	130	ND	ND		07/18/22	18:36	BP	467655
1,1-Dichloroethane	ETO15	60.00	33	120	ND	ND		07/18/22	18:36	BP	467655
ETBE	ETO15	60.00	20	130	ND	ND		07/18/22	18:36	BP	467655
cis-1,2-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	18:36	BP	467655
Chloroform	ETO15	60.00	58	150	ND	ND		07/18/22	18:36	BP	467655
Vinyl Acetate	ETO15	60.00	45	110	ND	ND		07/18/22	18:36	BP	467655
Carbon Tetrachloride	ETO15	60.00	66	190	ND	ND		07/18/22	18:36	BP	467655
1,1,1-Trichloroethane	ETO15	60.00	48	160	2100	384.62		07/18/22	18:36	BP	467655
2-Butanone (MEK)	ETO15	60.00	23	89	ND	ND		07/18/22	18:36	BP	467655
Ethyl Acetate	ETO15	60.00	29	110	ND	ND		07/18/22	18:36	BP	467655
Tetrahydrofuran	ETO15	60.00	27	89	ND	ND		07/18/22	18:36	BP	467655
Benzene	ETO15	60.00	26	96	ND	ND		07/18/22	18:36	BP	467655
TAME	ETO15	60.00	40	130	ND	ND		07/18/22	18:36	BP	467655
1,2-Dichloroethane (EDC)	ETO15	60.00	25	120	ND	ND		07/18/22	18:36	BP	467655
Trichloroethylene	ETO15	60.00	48	160	ND	ND		07/18/22	18:36	BP	467655
1,2-Dichloropropane	ETO15	60.00	46	140	ND	ND		07/18/22	18:36	BP	467655
Bromodichloromethane	ETO15	60.00	45	200	ND	ND		07/18/22	18:36	BP	467655
1,4-Dioxane	ETO15	60.00	110	220	ND	ND		07/18/22	18:36	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-4 @ 10'	**Lab Sample ID:**	2207125-007A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 17:07	**Certified Clean WO # :**	
Canister/Tube ID:	A12262	**Received PSI :**	12.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	60.00	64	140	ND	ND		07/18/22	18:36	BP	467655
Toluene	ETO15	60.00	45	110	ND	ND		07/18/22	18:36	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	60.00	45	120	ND	ND		07/18/22	18:36	BP	467655
cis-1,3-Dichloropropene	ETO15	60.00	25	140	ND	ND		07/18/22	18:36	BP	467655
Tetrachloroethylene	ETO15	60.00	87	200	16000	2,359.88		07/18/22	18:36	BP	467655
1,1,2-Trichloroethane	ETO15	60.00	35	160	ND	ND		07/18/22	18:36	BP	467655
Dibromochloromethane	ETO15	60.00	67	260	ND	ND		07/18/22	18:36	BP	467655
1,2-Dibromoethane (EDB)	ETO15	60.00	44	230	ND	ND		07/18/22	18:36	BP	467655
2-Hexanone	ETO15	60.00	39	120	ND	ND		07/18/22	18:36	BP	467655
Ethyl Benzene	ETO15	60.00	38	130	ND	ND		07/18/22	18:36	BP	467655
Chlorobenzene	ETO15	60.00	36	140	ND	ND		07/18/22	18:36	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	60.00	50	210	ND	ND		07/18/22	18:36	BP	467655
m,p-Xylene	ETO15	60.00	59	130	ND	ND		07/18/22	18:36	BP	467655
o-Xylene	ETO15	60.00	18	130	ND	ND		07/18/22	18:36	BP	467655
Styrene	ETO15	60.00	28	130	ND	ND		07/18/22	18:36	BP	467655
Bromoform	ETO15	60.00	78	310	ND	ND		07/18/22	18:36	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	60.00	49	210	ND	ND		07/18/22	18:36	BP	467655
4-Ethyl Toluene	ETO15	60.00	33	150	ND	ND		07/18/22	18:36	BP	467655
1,3,5-Trimethylbenzene	ETO15	60.00	18	150	ND	ND		07/18/22	18:36	BP	467655
1,2,4-Trimethylbenzene	ETO15	60.00	36	150	ND	ND		07/18/22	18:36	BP	467655
1,4-Dichlorobenzene	ETO15	60.00	45	180	ND	ND		07/18/22	18:36	BP	467655
1,3-Dichlorobenzene	ETO15	60.00	80	180	ND	ND		07/18/22	18:36	BP	467655
1,2-Dichlorobenzene	ETO15	60.00	64	180	ND	ND		07/18/22	18:36	BP	467655
Hexachlorobutadiene	ETO15	60.00	110	320	ND	ND		07/18/22	18:36	BP	467655
1,2,4-Trichlorobenzene	ETO15	60.00	130	220	ND	ND		07/18/22	18:36	BP	467655
Naphthalene	ETO15	60.00	76	160	ND	ND		07/18/22	18:36	BP	467655
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	82 %			07/18/22	18:36	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-6 @ 6'	**Lab Sample ID:**	2207125-008A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 14:25	**Certified Clean WO # :**	
Canister/Tube ID:	R3583	**Received PSI :**	12.4
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22 12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	60.00	94	150	ND	ND		07/18/22	19:01	BP	467655
1,1-Difluoroethane	ETO15	60.00	21	810	ND	ND		07/18/22	19:01	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	60.00	84	210	ND	ND		07/18/22	19:01	BP	467655
Chloromethane	ETO15	60.00	120	250	360	173.91		07/18/22	19:01	BP	467655
Vinyl Chloride	ETO15	60.00	14	77	ND	ND		07/18/22	19:01	BP	467655
1,3-Butadiene	ETO15	60.00	20	66	ND	ND		07/18/22	19:01	BP	467655
Bromomethane	ETO15	60.00	39	120	ND	ND		07/18/22	19:01	BP	467655
Chloroethane	ETO15	60.00	49	79	ND	ND		07/18/22	19:01	BP	467655
Trichlorofluoromethane	ETO15	60.00	33	170	ND	ND		07/18/22	19:01	BP	467655
1,1-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	19:01	BP	467655
Freon 113	ETO15	60.00	61	230	ND	ND		07/18/22	19:01	BP	467655
Carbon Disulfide	ETO15	60.00	22	93	ND	ND		07/18/22	19:01	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	60.00	77	740	ND	ND		07/18/22	19:01	BP	467655
Methylene Chloride	ETO15	60.00	42	620	ND	ND		07/18/22	19:01	BP	467655
Acetone	ETO15	60.00	24	710	ND	ND		07/18/22	19:01	BP	467655
trans-1,2-Dichloroethene	ETO15	60.00	29	120	ND	ND		07/18/22	19:01	BP	467655
Hexane	ETO15	60.00	28	110	ND	ND		07/18/22	19:01	BP	467655
MTBE	ETO15	60.00	27	110	ND	ND		07/18/22	19:01	BP	467655
tert-Butanol	ETO15	60.00	37	91	ND	ND		07/18/22	19:01	BP	467655
Diisopropyl ether (DIPE)	ETO15	60.00	44	130	ND	ND		07/18/22	19:01	BP	467655
1,1-Dichloroethane	ETO15	60.00	33	120	140	34.57		07/18/22	19:01	BP	467655
ETBE	ETO15	60.00	20	130	ND	ND		07/18/22	19:01	BP	467655
cis-1,2-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	19:01	BP	467655
Chloroform	ETO15	60.00	58	150	ND	ND		07/18/22	19:01	BP	467655
Vinyl Acetate	ETO15	60.00	45	110	ND	ND		07/18/22	19:01	BP	467655
Carbon Tetrachloride	ETO15	60.00	66	190	ND	ND		07/18/22	19:01	BP	467655
1,1,1-Trichloroethane	ETO15	60.00	48	160	210	38.46		07/18/22	19:01	BP	467655
2-Butanone (MEK)	ETO15	60.00	23	89	ND	ND		07/18/22	19:01	BP	467655
Ethyl Acetate	ETO15	60.00	29	110	ND	ND		07/18/22	19:01	BP	467655
Tetrahydrofuran	ETO15	60.00	27	89	ND	ND		07/18/22	19:01	BP	467655
Benzene	ETO15	60.00	26	96	ND	ND		07/18/22	19:01	BP	467655
TAME	ETO15	60.00	40	130	ND	ND		07/18/22	19:01	BP	467655
1,2-Dichloroethane (EDC)	ETO15	60.00	25	120	ND	ND		07/18/22	19:01	BP	467655
Trichloroethylene	ETO15	60.00	48	160	ND	ND		07/18/22	19:01	BP	467655
1,2-Dichloropropane	ETO15	60.00	46	140	ND	ND		07/18/22	19:01	BP	467655
Bromodichloromethane	ETO15	60.00	45	200	ND	ND		07/18/22	19:01	BP	467655
1,4-Dioxane	ETO15	60.00	110	220	ND	ND		07/18/22	19:01	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-6 @ 6'	**Lab Sample ID:**	2207125-008A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 14:25	**Certified Clean WO # :**	
Canister/Tube ID:	R3583	**Received PSI :**	12.4
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	60.00	64	140	ND	ND		07/18/22	19:01	BP	467655
Toluene	ETO15	60.00	45	110	ND	ND		07/18/22	19:01	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	60.00	45	120	ND	ND		07/18/22	19:01	BP	467655
cis-1,3-Dichloropropene	ETO15	60.00	25	140	ND	ND		07/18/22	19:01	BP	467655
Tetrachloroethylene	ETO15	60.00	87	200	11000	1,622.42		07/18/22	19:01	BP	467655
1,1,2-Trichloroethane	ETO15	60.00	35	160	ND	ND		07/18/22	19:01	BP	467655
Dibromochloromethane	ETO15	60.00	67	260	ND	ND		07/18/22	19:01	BP	467655
1,2-Dibromoethane (EDB)	ETO15	60.00	44	230	ND	ND		07/18/22	19:01	BP	467655
2-Hexanone	ETO15	60.00	39	120	ND	ND		07/18/22	19:01	BP	467655
Ethyl Benzene	ETO15	60.00	38	130	ND	ND		07/18/22	19:01	BP	467655
Chlorobenzene	ETO15	60.00	36	140	ND	ND		07/18/22	19:01	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	60.00	50	210	ND	ND		07/18/22	19:01	BP	467655
m,p-Xylene	ETO15	60.00	59	130	ND	ND		07/18/22	19:01	BP	467655
o-Xylene	ETO15	60.00	18	130	ND	ND		07/18/22	19:01	BP	467655
Styrene	ETO15	60.00	28	130	ND	ND		07/18/22	19:01	BP	467655
Bromoform	ETO15	60.00	78	310	ND	ND		07/18/22	19:01	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	60.00	49	210	ND	ND		07/18/22	19:01	BP	467655
4-Ethyl Toluene	ETO15	60.00	33	150	ND	ND		07/18/22	19:01	BP	467655
1,3,5-Trimethylbenzene	ETO15	60.00	18	150	ND	ND		07/18/22	19:01	BP	467655
1,2,4-Trimethylbenzene	ETO15	60.00	36	150	ND	ND		07/18/22	19:01	BP	467655
1,4-Dichlorobenzene	ETO15	60.00	45	180	ND	ND		07/18/22	19:01	BP	467655
1,3-Dichlorobenzene	ETO15	60.00	80	180	ND	ND		07/18/22	19:01	BP	467655
1,2-Dichlorobenzene	ETO15	60.00	64	180	ND	ND		07/18/22	19:01	BP	467655
Hexachlorobutadiene	ETO15	60.00	110	320	ND	ND		07/18/22	19:01	BP	467655
1,2,4-Trichlorobenzene	ETO15	60.00	130	220	ND	ND		07/18/22	19:01	BP	467655
Naphthalene	ETO15	60.00	76	160	ND	ND		07/18/22	19:01	BP	467655
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	92 %			07/18/22	19:01	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-6 @ 10'	**Lab Sample ID:**	2207125-009A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 14:32	**Certified Clean WO # :**	
Canister/Tube ID:	A11734	**Received PSI :**	13.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	60.00	94	150	ND	ND		07/18/22	19:26	BP	467655
1,1-Difluoroethane	ETO15	60.00	21	810	ND	ND		07/18/22	19:26	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	60.00	84	210	ND	ND		07/18/22	19:26	BP	467655
Chloromethane	ETO15	60.00	120	250	440	212.56		07/18/22	19:26	BP	467655
Vinyl Chloride	ETO15	60.00	14	77	ND	ND		07/18/22	19:26	BP	467655
1,3-Butadiene	ETO15	60.00	20	66	ND	ND		07/18/22	19:26	BP	467655
Bromomethane	ETO15	60.00	39	120	ND	ND		07/18/22	19:26	BP	467655
Chloroethane	ETO15	60.00	49	79	ND	ND		07/18/22	19:26	BP	467655
Trichlorofluoromethane	ETO15	60.00	33	170	ND	ND		07/18/22	19:26	BP	467655
1,1-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	19:26	BP	467655
Freon 113	ETO15	60.00	61	230	ND	ND		07/18/22	19:26	BP	467655
Carbon Disulfide	ETO15	60.00	22	93	ND	ND		07/18/22	19:26	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	60.00	77	740	ND	ND		07/18/22	19:26	BP	467655
Methylene Chloride	ETO15	60.00	42	620	ND	ND		07/18/22	19:26	BP	467655
Acetone	ETO15	60.00	24	710	ND	ND		07/18/22	19:26	BP	467655
trans-1,2-Dichloroethene	ETO15	60.00	29	120	ND	ND		07/18/22	19:26	BP	467655
Hexane	ETO15	60.00	28	110	ND	ND		07/18/22	19:26	BP	467655
MTBE	ETO15	60.00	27	110	ND	ND		07/18/22	19:26	BP	467655
tert-Butanol	ETO15	60.00	37	91	ND	ND		07/18/22	19:26	BP	467655
Diisopropyl ether (DIPE)	ETO15	60.00	44	130	ND	ND		07/18/22	19:26	BP	467655
1,1-Dichloroethane	ETO15	60.00	33	120	190	46.91		07/18/22	19:26	BP	467655
ETBE	ETO15	60.00	20	130	ND	ND		07/18/22	19:26	BP	467655
cis-1,2-Dichloroethene	ETO15	60.00	50	120	ND	ND		07/18/22	19:26	BP	467655
Chloroform	ETO15	60.00	58	150	ND	ND		07/18/22	19:26	BP	467655
Vinyl Acetate	ETO15	60.00	45	110	ND	ND		07/18/22	19:26	BP	467655
Carbon Tetrachloride	ETO15	60.00	66	190	ND	ND		07/18/22	19:26	BP	467655
1,1,1-Trichloroethane	ETO15	60.00	48	160	ND	ND		07/18/22	19:26	BP	467655
2-Butanone (MEK)	ETO15	60.00	23	89	ND	ND		07/18/22	19:26	BP	467655
Ethyl Acetate	ETO15	60.00	29	110	ND	ND		07/18/22	19:26	BP	467655
Tetrahydrofuran	ETO15	60.00	27	89	ND	ND		07/18/22	19:26	BP	467655
Benzene	ETO15	60.00	26	96	ND	ND		07/18/22	19:26	BP	467655
TAME	ETO15	60.00	40	130	ND	ND		07/18/22	19:26	BP	467655
1,2-Dichloroethane (EDC)	ETO15	60.00	25	120	ND	ND		07/18/22	19:26	BP	467655
Trichloroethylene	ETO15	60.00	48	160	270	50.28		07/18/22	19:26	BP	467655
1,2-Dichloropropane	ETO15	60.00	46	140	ND	ND		07/18/22	19:26	BP	467655
Bromodichloromethane	ETO15	60.00	45	200	ND	ND		07/18/22	19:26	BP	467655
1,4-Dioxane	ETO15	60.00	110	220	ND	ND		07/18/22	19:26	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-6 @ 10'	**Lab Sample ID:**	2207125-009A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 14:32	**Certified Clean WO # :**	
Canister/Tube ID:	A11734	**Received PSI :**	13.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	60.00	64	140	ND	ND		07/18/22	19:26	BP	467655
Toluene	ETO15	60.00	45	110	ND	ND		07/18/22	19:26	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	60.00	45	120	ND	ND		07/18/22	19:26	BP	467655
cis-1,3-Dichloropropene	ETO15	60.00	25	140	ND	ND		07/18/22	19:26	BP	467655
Tetrachloroethylene	ETO15	60.00	87	200	11000	1,622.42		07/18/22	19:26	BP	467655
1,1,2-Trichloroethane	ETO15	60.00	35	160	ND	ND		07/18/22	19:26	BP	467655
Dibromochloromethane	ETO15	60.00	67	260	ND	ND		07/18/22	19:26	BP	467655
1,2-Dibromoethane (EDB)	ETO15	60.00	44	230	ND	ND		07/18/22	19:26	BP	467655
2-Hexanone	ETO15	60.00	39	120	ND	ND		07/18/22	19:26	BP	467655
Ethyl Benzene	ETO15	60.00	38	130	ND	ND		07/18/22	19:26	BP	467655
Chlorobenzene	ETO15	60.00	36	140	ND	ND		07/18/22	19:26	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	60.00	50	210	ND	ND		07/18/22	19:26	BP	467655
m,p-Xylene	ETO15	60.00	59	130	ND	ND		07/18/22	19:26	BP	467655
o-Xylene	ETO15	60.00	18	130	ND	ND		07/18/22	19:26	BP	467655
Styrene	ETO15	60.00	28	130	ND	ND		07/18/22	19:26	BP	467655
Bromoform	ETO15	60.00	78	310	ND	ND		07/18/22	19:26	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	60.00	49	210	ND	ND		07/18/22	19:26	BP	467655
4-Ethyl Toluene	ETO15	60.00	33	150	ND	ND		07/18/22	19:26	BP	467655
1,3,5-Trimethylbenzene	ETO15	60.00	18	150	ND	ND		07/18/22	19:26	BP	467655
1,2,4-Trimethylbenzene	ETO15	60.00	36	150	ND	ND		07/18/22	19:26	BP	467655
1,4-Dichlorobenzene	ETO15	60.00	45	180	ND	ND		07/18/22	19:26	BP	467655
1,3-Dichlorobenzene	ETO15	60.00	80	180	ND	ND		07/18/22	19:26	BP	467655
1,2-Dichlorobenzene	ETO15	60.00	64	180	ND	ND		07/18/22	19:26	BP	467655
Hexachlorobutadiene	ETO15	60.00	110	320	ND	ND		07/18/22	19:26	BP	467655
1,2,4-Trichlorobenzene	ETO15	60.00	130	220	ND	ND		07/18/22	19:26	BP	467655
Naphthalene	ETO15	60.00	76	160	ND	ND		07/18/22	19:26	BP	467655
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	90 %			07/18/22	19:26	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-7 @ 6'	**Lab Sample ID:**	2207125-010A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 15:32	**Certified Clean WO # :**	
Canister/Tube ID:	R3554	**Received PSI :**	11.4
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		07/18/22	20:26	BP	467655
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		07/18/22	20:26	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		07/18/22	20:26	BP	467655
Chloromethane	ETO15	30.00	61	120	ND	ND		07/18/22	20:26	BP	467655
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		07/18/22	20:26	BP	467655
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		07/18/22	20:26	BP	467655
Bromomethane	ETO15	30.00	20	58	ND	ND		07/18/22	20:26	BP	467655
Chloroethane	ETO15	30.00	24	40	ND	ND		07/18/22	20:26	BP	467655
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		07/18/22	20:26	BP	467655
1,1-Dichloroethene	ETO15	30.00	25	60	120	30.23		07/18/22	20:26	BP	467655
Freon 113	ETO15	30.00	31	110	ND	ND		07/18/22	20:26	BP	467655
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		07/18/22	20:26	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		07/18/22	20:26	BP	467655
Methylene Chloride	ETO15	30.00	21	310	ND	ND		07/18/22	20:26	BP	467655
Acetone	ETO15	30.00	12	360	500	210.08		07/18/22	20:26	BP	467655
trans-1,2-Dichloroethene	ETO15	30.00	14	59	990	250.00		07/18/22	20:26	BP	467655
Hexane	ETO15	30.00	14	53	130	36.93		07/18/22	20:26	BP	467655
MTBE	ETO15	30.00	13	54	ND	ND		07/18/22	20:26	BP	467655
tert-Butanol	ETO15	30.00	19	45	ND	ND		07/18/22	20:26	BP	467655
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		07/18/22	20:26	BP	467655
1,1-Dichloroethane	ETO15	30.00	16	61	800	197.53		07/18/22	20:26	BP	467655
ETBE	ETO15	30.00	9.8	63	ND	ND		07/18/22	20:26	BP	467655
cis-1,2-Dichloroethene	ETO15	30.00	25	59	7300	1,843.43		07/18/22	20:26	BP	467655
Chloroform	ETO15	30.00	29	73	ND	ND		07/18/22	20:26	BP	467655
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		07/18/22	20:26	BP	467655
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		07/18/22	20:26	BP	467655
1,1,1-Trichloroethane	ETO15	30.00	24	82	ND	ND		07/18/22	20:26	BP	467655
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		07/18/22	20:26	BP	467655
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		07/18/22	20:26	BP	467655
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		07/18/22	20:26	BP	467655
Benzene	ETO15	30.00	13	48	ND	ND		07/18/22	20:26	BP	467655
TAME	ETO15	30.00	20	63	ND	ND		07/18/22	20:26	BP	467655
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		07/18/22	20:26	BP	467655
Trichloroethylene	ETO15	30.00	24	81	3800	707.64		07/18/22	20:26	BP	467655
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		07/18/22	20:26	BP	467655
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		07/18/22	20:26	BP	467655
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		07/18/22	20:26	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-7 @ 6'	**Lab Sample ID:**	2207125-010A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 15:32	**Certified Clean WO # :**	
Canister/Tube ID:	R3554	**Received PSI :**	11.4
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		07/18/22	20:26	BP	467655
Toluene	ETO15	30.00	23	57	ND	ND		07/18/22	20:26	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		07/18/22	20:26	BP	467655
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		07/18/22	20:26	BP	467655
Tetrachloroethylene	ETO15	30.00	44	100	4400	648.97		07/18/22	20:26	BP	467655
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		07/18/22	20:26	BP	467655
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		07/18/22	20:26	BP	467655
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		07/18/22	20:26	BP	467655
2-Hexanone	ETO15	30.00	20	62	ND	ND		07/18/22	20:26	BP	467655
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		07/18/22	20:26	BP	467655
Chlorobenzene	ETO15	30.00	18	69	ND	ND		07/18/22	20:26	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		07/18/22	20:26	BP	467655
m,p-Xylene	ETO15	30.00	29	65	ND	ND		07/18/22	20:26	BP	467655
o-Xylene	ETO15	30.00	9.1	65	ND	ND		07/18/22	20:26	BP	467655
Styrene	ETO15	30.00	14	64	ND	ND		07/18/22	20:26	BP	467655
Bromoform	ETO15	30.00	39	160	ND	ND		07/18/22	20:26	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		07/18/22	20:26	BP	467655
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		07/18/22	20:26	BP	467655
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		07/18/22	20:26	BP	467655
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		07/18/22	20:26	BP	467655
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		07/18/22	20:26	BP	467655
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		07/18/22	20:26	BP	467655
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		07/18/22	20:26	BP	467655
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		07/18/22	20:26	BP	467655
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		07/18/22	20:26	BP	467655
Naphthalene	ETO15	30.00	38	79	ND	ND		07/18/22	20:26	BP	467655
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	93 %			07/18/22	20:26	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-7 @ 10'	**Lab Sample ID:**	2207125-011A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 15:24	**Certified Clean WO # :**	
Canister/Tube ID:	A12261	**Received PSI :**	12.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	30.00	47	74	ND	ND		07/18/22	20:51	BP	467655
1,1-Difluoroethane	ETO15	30.00	10	410	ND	ND		07/18/22	20:51	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	30.00	42	100	ND	ND		07/18/22	20:51	BP	467655
Chloromethane	ETO15	30.00	61	120	ND	ND		07/18/22	20:51	BP	467655
Vinyl Chloride	ETO15	30.00	6.8	38	ND	ND		07/18/22	20:51	BP	467655
1,3-Butadiene	ETO15	30.00	10	33	ND	ND		07/18/22	20:51	BP	467655
Bromomethane	ETO15	30.00	20	58	ND	ND		07/18/22	20:51	BP	467655
Chloroethane	ETO15	30.00	24	40	ND	ND		07/18/22	20:51	BP	467655
Trichlorofluoromethane	ETO15	30.00	17	84	ND	ND		07/18/22	20:51	BP	467655
1,1-Dichloroethene	ETO15	30.00	25	60	220	55.42		07/18/22	20:51	BP	467655
Freon 113	ETO15	30.00	31	110	ND	ND		07/18/22	20:51	BP	467655
Carbon Disulfide	ETO15	30.00	11	47	ND	ND		07/18/22	20:51	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	30.00	38	370	ND	ND		07/18/22	20:51	BP	467655
Methylene Chloride	ETO15	30.00	21	310	ND	ND		07/18/22	20:51	BP	467655
Acetone	ETO15	30.00	12	360	500	210.08		07/18/22	20:51	BP	467655
trans-1,2-Dichloroethene	ETO15	30.00	14	59	1300	328.28		07/18/22	20:51	BP	467655
Hexane	ETO15	30.00	14	53	110	31.25		07/18/22	20:51	BP	467655
MTBE	ETO15	30.00	13	54	ND	ND		07/18/22	20:51	BP	467655
tert-Butanol	ETO15	30.00	19	45	ND	ND		07/18/22	20:51	BP	467655
Diisopropyl ether (DIPE)	ETO15	30.00	22	63	ND	ND		07/18/22	20:51	BP	467655
1,1-Dichloroethane	ETO15	30.00	16	61	1000	246.91		07/18/22	20:51	BP	467655
ETBE	ETO15	30.00	9.8	63	ND	ND		07/18/22	20:51	BP	467655
Chloroform	ETO15	30.00	29	73	ND	ND		07/18/22	20:51	BP	467655
Vinyl Acetate	ETO15	30.00	23	53	ND	ND		07/18/22	20:51	BP	467655
Carbon Tetrachloride	ETO15	30.00	33	94	ND	ND		07/18/22	20:51	BP	467655
1,1,1-Trichloroethane	ETO15	30.00	24	82	ND	ND		07/18/22	20:51	BP	467655
2-Butanone (MEK)	ETO15	30.00	12	44	ND	ND		07/18/22	20:51	BP	467655
Ethyl Acetate	ETO15	30.00	14	54	ND	ND		07/18/22	20:51	BP	467655
Tetrahydrofuran	ETO15	30.00	13	44	ND	ND		07/18/22	20:51	BP	467655
Benzene	ETO15	30.00	13	48	ND	ND		07/18/22	20:51	BP	467655
TAME	ETO15	30.00	20	63	ND	ND		07/18/22	20:51	BP	467655
1,2-Dichloroethane (EDC)	ETO15	30.00	13	61	ND	ND		07/18/22	20:51	BP	467655
Trichloroethylene	ETO15	30.00	24	81	4900	912.48		07/18/22	20:51	BP	467655
1,2-Dichloropropane	ETO15	30.00	23	69	ND	ND		07/18/22	20:51	BP	467655
Bromodichloromethane	ETO15	30.00	22	100	ND	ND		07/18/22	20:51	BP	467655
1,4-Dioxane	ETO15	30.00	54	110	ND	ND		07/18/22	20:51	BP	467655
trans-1,3-Dichloropropene	ETO15	30.00	32	68	ND	ND		07/18/22	20:51	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-7 @ 10'	**Lab Sample ID:**	2207125-011A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 15:24	**Certified Clean WO # :**	
Canister/Tube ID:	A12261	**Received PSI :**	12.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method: TO15-P **Prep Batch Date/Time:** 7/18/22 12:00:00PM
Prep Batch ID: 1143357 **Prep Analyst:** BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Toluene	ETO15	30.00	23	57	ND	ND		07/18/22	20:51	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	30.00	22	62	ND	ND		07/18/22	20:51	BP	467655
cis-1,3-Dichloropropene	ETO15	30.00	13	68	ND	ND		07/18/22	20:51	BP	467655
Tetrachloroethylene	ETO15	30.00	44	100	840	123.89		07/18/22	20:51	BP	467655
1,1,2-Trichloroethane	ETO15	30.00	18	82	ND	ND		07/18/22	20:51	BP	467655
Dibromochloromethane	ETO15	30.00	33	130	ND	ND		07/18/22	20:51	BP	467655
1,2-Dibromoethane (EDB)	ETO15	30.00	22	120	ND	ND		07/18/22	20:51	BP	467655
2-Hexanone	ETO15	30.00	20	62	ND	ND		07/18/22	20:51	BP	467655
Ethyl Benzene	ETO15	30.00	19	65	ND	ND		07/18/22	20:51	BP	467655
Chlorobenzene	ETO15	30.00	18	69	ND	ND		07/18/22	20:51	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		07/18/22	20:51	BP	467655
m,p-Xylene	ETO15	30.00	29	65	ND	ND		07/18/22	20:51	BP	467655
o-Xylene	ETO15	30.00	9.1	65	ND	ND		07/18/22	20:51	BP	467655
Styrene	ETO15	30.00	14	64	ND	ND		07/18/22	20:51	BP	467655
Bromoform	ETO15	30.00	39	160	ND	ND		07/18/22	20:51	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	30.00	25	100	ND	ND		07/18/22	20:51	BP	467655
4-Ethyl Toluene	ETO15	30.00	16	74	ND	ND		07/18/22	20:51	BP	467655
1,3,5-Trimethylbenzene	ETO15	30.00	9.0	74	ND	ND		07/18/22	20:51	BP	467655
1,2,4-Trimethylbenzene	ETO15	30.00	18	74	ND	ND		07/18/22	20:51	BP	467655
1,4-Dichlorobenzene	ETO15	30.00	22	90	ND	ND		07/18/22	20:51	BP	467655
1,3-Dichlorobenzene	ETO15	30.00	40	90	ND	ND		07/18/22	20:51	BP	467655
1,2-Dichlorobenzene	ETO15	30.00	32	90	ND	ND		07/18/22	20:51	BP	467655
Hexachlorobutadiene	ETO15	30.00	56	160	ND	ND		07/18/22	20:51	BP	467655
1,2,4-Trichlorobenzene	ETO15	30.00	65	110	ND	ND		07/18/22	20:51	BP	467655
Naphthalene	ETO15	30.00	38	79	ND	ND		07/18/22	20:51	BP	467655
(S) 4-Bromofluorobenzene	ETO15	30.00	50	150	100 %			07/18/22	20:51	BP	467655

Prep Method: TO15-P **Prep Batch Date/Time:** 7/18/22 12:00:00PM
Prep Batch ID: 1143357 **Prep Analyst:** BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
cis-1,2-Dichloroethene	ETO15	60.00	50	120	8200	2,070.71		07/19/22	0:08	BP	467655
(S) 4-Bromofluorobenzene	ETO15	60.00	50	150	91 %			07/19/22	0:08	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-8	**Lab Sample ID:**	2207125-012A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 15:57	**Certified Clean WO # :**	
Canister/Tube ID:	R3585	**Received PSI :**	4.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22 12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	3.00	4.7	7.4	ND	ND		07/19/22	10:13	BP	467655
1,1-Difluoroethane	ETO15	3.00	1.0	41	ND	ND		07/19/22	10:13	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	3.00	4.2	10	ND	ND		07/19/22	10:13	BP	467655
Chloromethane	ETO15	3.00	6.1	12	ND	ND		07/19/22	10:13	BP	467655
Vinyl Chloride	ETO15	3.00	0.68	3.8	ND	ND		07/19/22	10:13	BP	467655
1,3-Butadiene	ETO15	3.00	1.0	3.3	ND	ND		07/19/22	10:13	BP	467655
Bromomethane	ETO15	3.00	2.0	5.8	ND	ND		07/19/22	10:13	BP	467655
Chloroethane	ETO15	3.00	2.4	4.0	ND	ND		07/19/22	10:13	BP	467655
Trichlorofluoromethane	ETO15	3.00	1.7	8.4	ND	ND		07/19/22	10:13	BP	467655
1,1-Dichloroethene	ETO15	3.00	2.5	6.0	ND	ND		07/19/22	10:13	BP	467655
Freon 113	ETO15	3.00	3.1	11	ND	ND		07/19/22	10:13	BP	467655
Carbon Disulfide	ETO15	3.00	1.1	4.7	ND	ND		07/19/22	10:13	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	3.00	3.8	37	ND	ND		07/19/22	10:13	BP	467655
Methylene Chloride	ETO15	3.00	2.1	31	ND	ND		07/19/22	10:13	BP	467655
Acetone	ETO15	3.00	1.2	36	ND	ND		07/19/22	10:13	BP	467655
trans-1,2-Dichloroethene	ETO15	3.00	1.4	5.9	ND	ND		07/19/22	10:13	BP	467655
Hexane	ETO15	3.00	1.4	5.3	ND	ND		07/19/22	10:13	BP	467655
MTBE	ETO15	3.00	1.3	5.4	ND	ND		07/19/22	10:13	BP	467655
tert-Butanol	ETO15	3.00	1.9	4.5	ND	ND		07/19/22	10:13	BP	467655
Diisopropyl ether (DIPE)	ETO15	3.00	2.2	6.3	ND	ND		07/19/22	10:13	BP	467655
1,1-Dichloroethane	ETO15	3.00	1.6	6.1	ND	ND		07/19/22	10:13	BP	467655
ETBE	ETO15	3.00	0.98	6.3	ND	ND		07/19/22	10:13	BP	467655
cis-1,2-Dichloroethene	ETO15	3.00	2.5	5.9	ND	ND		07/19/22	10:13	BP	467655
Chloroform	ETO15	3.00	2.9	7.3	ND	ND		07/19/22	10:13	BP	467655
Vinyl Acetate	ETO15	3.00	2.3	5.3	ND	ND		07/19/22	10:13	BP	467655
Carbon Tetrachloride	ETO15	3.00	3.3	9.4	ND	ND		07/19/22	10:13	BP	467655
1,1,1-Trichloroethane	ETO15	3.00	2.4	8.2	12	2.20		07/19/22	10:13	BP	467655
2-Butanone (MEK)	ETO15	3.00	1.2	4.4	ND	ND		07/19/22	10:13	BP	467655
Ethyl Acetate	ETO15	3.00	1.4	5.4	ND	ND		07/19/22	10:13	BP	467655
Tetrahydrofuran	ETO15	3.00	1.3	4.4	ND	ND		07/19/22	10:13	BP	467655
Benzene	ETO15	3.00	1.3	4.8	ND	ND		07/19/22	10:13	BP	467655
TAME	ETO15	3.00	2.0	6.3	ND	ND		07/19/22	10:13	BP	467655
1,2-Dichloroethane (EDC)	ETO15	3.00	1.3	6.1	ND	ND		07/19/22	10:13	BP	467655
Trichloroethylene	ETO15	3.00	2.4	8.1	ND	ND		07/19/22	10:13	BP	467655
1,2-Dichloropropane	ETO15	3.00	2.3	6.9	ND	ND		07/19/22	10:13	BP	467655
Bromodichloromethane	ETO15	3.00	2.2	10	ND	ND		07/19/22	10:13	BP	467655
1,4-Dioxane	ETO15	3.00	5.4	11	ND	ND		07/19/22	10:13	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-8	**Lab Sample ID:**	2207125-012A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 15:57	**Certified Clean WO # :**	
Canister/Tube ID:	R3585	**Received PSI :**	4.3
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	3.00	3.2	6.8	ND	ND		07/19/22	10:13	BP	467655
Toluene	ETO15	3.00	2.3	5.7	ND	ND		07/19/22	10:13	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	3.00	2.2	6.2	ND	ND		07/19/22	10:13	BP	467655
cis-1,3-Dichloropropene	ETO15	3.00	1.3	6.8	ND	ND		07/19/22	10:13	BP	467655
Tetrachloroethylene	ETO15	3.00	4.4	10	16	2.36		07/19/22	10:13	BP	467655
1,1,2-Trichloroethane	ETO15	3.00	1.8	8.2	ND	ND		07/19/22	10:13	BP	467655
Dibromochloromethane	ETO15	3.00	3.3	13	ND	ND		07/19/22	10:13	BP	467655
1,2-Dibromoethane (EDB)	ETO15	3.00	2.2	12	ND	ND		07/19/22	10:13	BP	467655
2-Hexanone	ETO15	3.00	2.0	6.2	ND	ND		07/19/22	10:13	BP	467655
Ethyl Benzene	ETO15	3.00	1.9	6.5	ND	ND		07/19/22	10:13	BP	467655
Chlorobenzene	ETO15	3.00	1.8	6.9	ND	ND		07/19/22	10:13	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	3.00	2.5	10	ND	ND		07/19/22	10:13	BP	467655
m,p-Xylene	ETO15	3.00	2.9	6.5	ND	ND		07/19/22	10:13	BP	467655
o-Xylene	ETO15	3.00	0.91	6.5	ND	ND		07/19/22	10:13	BP	467655
Styrene	ETO15	3.00	1.4	6.4	ND	ND		07/19/22	10:13	BP	467655
Bromoform	ETO15	3.00	3.9	16	ND	ND		07/19/22	10:13	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	3.00	2.5	10	ND	ND		07/19/22	10:13	BP	467655
4-Ethyl Toluene	ETO15	3.00	1.6	7.4	ND	ND		07/19/22	10:13	BP	467655
1,3,5-Trimethylbenzene	ETO15	3.00	0.90	7.4	ND	ND		07/19/22	10:13	BP	467655
1,2,4-Trimethylbenzene	ETO15	3.00	1.8	7.4	ND	ND		07/19/22	10:13	BP	467655
1,4-Dichlorobenzene	ETO15	3.00	2.2	9.0	ND	ND		07/19/22	10:13	BP	467655
1,3-Dichlorobenzene	ETO15	3.00	4.0	9.0	ND	ND		07/19/22	10:13	BP	467655
1,2-Dichlorobenzene	ETO15	3.00	3.2	9.0	ND	ND		07/19/22	10:13	BP	467655
Hexachlorobutadiene	ETO15	3.00	5.6	16	ND	ND		07/19/22	10:13	BP	467655
1,2,4-Trichlorobenzene	ETO15	3.00	6.5	11	ND	ND		07/19/22	10:13	BP	467655
Naphthalene	ETO15	3.00	3.8	7.9	ND	ND		07/19/22	10:13	BP	467655
(S) 4-Bromofluorobenzene	ETO15	3.00	50	150	100 %			07/19/22	10:13	BP	467655

NOTE: Low canister pressure.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-9	**Lab Sample ID:**	2207125-013A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:28	**Certified Clean WO # :**	
Canister/Tube ID:	A12200	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22 12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		07/18/22	22:16	BP	467655
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		07/18/22	22:16	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		07/18/22	22:16	BP	467655
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		07/18/22	22:16	BP	467655
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		07/18/22	22:16	BP	467655
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		07/18/22	22:16	BP	467655
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		07/18/22	22:16	BP	467655
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		07/18/22	22:16	BP	467655
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		07/18/22	22:16	BP	467655
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		07/18/22	22:16	BP	467655
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		07/18/22	22:16	BP	467655
Carbon Disulfide	ETO15	1.00	0.37	1.6	3.9	1.25		07/18/22	22:16	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	18	7.32		07/18/22	22:16	BP	467655
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		07/18/22	22:16	BP	467655
Acetone	ETO15	1.00	0.40	12	110	46.22		07/18/22	22:16	BP	467655
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		07/18/22	22:16	BP	467655
Hexane	ETO15	1.00	0.46	1.8	ND	ND		07/18/22	22:16	BP	467655
MTBE	ETO15	1.00	0.44	1.8	ND	ND		07/18/22	22:16	BP	467655
tert-Butanol	ETO15	1.00	0.62	1.5	ND	ND		07/18/22	22:16	BP	467655
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		07/18/22	22:16	BP	467655
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		07/18/22	22:16	BP	467655
ETBE	ETO15	1.00	0.33	2.1	ND	ND		07/18/22	22:16	BP	467655
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		07/18/22	22:16	BP	467655
Chloroform	ETO15	1.00	0.97	2.4	9.1	1.86		07/18/22	22:16	BP	467655
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		07/18/22	22:16	BP	467655
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		07/18/22	22:16	BP	467655
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	23	4.21		07/18/22	22:16	BP	467655
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	7.8	2.64		07/18/22	22:16	BP	467655
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		07/18/22	22:16	BP	467655
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		07/18/22	22:16	BP	467655
Benzene	ETO15	1.00	0.44	1.6	ND	ND		07/18/22	22:16	BP	467655
TAME	ETO15	1.00	0.67	2.1	ND	ND		07/18/22	22:16	BP	467655
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		07/18/22	22:16	BP	467655
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		07/18/22	22:16	BP	467655
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		07/18/22	22:16	BP	467655
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		07/18/22	22:16	BP	467655
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		07/18/22	22:16	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-9	**Lab Sample ID:**	2207125-013A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:28	**Certified Clean WO # :**	
Canister/Tube ID:	A12200	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		07/18/22	22:16	BP	467655
Toluene	ETO15	1.00	0.75	1.9	ND	ND		07/18/22	22:16	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		07/18/22	22:16	BP	467655
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		07/18/22	22:16	BP	467655
Tetrachloroethylene	ETO15	1.00	1.5	3.4	46	6.78		07/18/22	22:16	BP	467655
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		07/18/22	22:16	BP	467655
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		07/18/22	22:16	BP	467655
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		07/18/22	22:16	BP	467655
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		07/18/22	22:16	BP	467655
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		07/18/22	22:16	BP	467655
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		07/18/22	22:16	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		07/18/22	22:16	BP	467655
m,p-Xylene	ETO15	1.00	0.98	2.2	ND	ND		07/18/22	22:16	BP	467655
o-Xylene	ETO15	1.00	0.30	2.2	ND	ND		07/18/22	22:16	BP	467655
Styrene	ETO15	1.00	0.46	2.1	ND	ND		07/18/22	22:16	BP	467655
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		07/18/22	22:16	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		07/18/22	22:16	BP	467655
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		07/18/22	22:16	BP	467655
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		07/18/22	22:16	BP	467655
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		07/18/22	22:16	BP	467655
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		07/18/22	22:16	BP	467655
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		07/18/22	22:16	BP	467655
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		07/18/22	22:16	BP	467655
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		07/18/22	22:16	BP	467655
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		07/18/22	22:16	BP	467655
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		07/18/22	22:16	BP	467655
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	90 %			07/18/22	22:16	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-11	**Lab Sample ID:**	2207125-014A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 13:10	**Certified Clean WO # :**	
Canister/Tube ID:	N1430	**Received PSI :**	13.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22 12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	3.00	4.7	7.4	ND	ND		07/18/22	22:41	BP	467655
1,1-Difluoroethane	ETO15	3.00	1.0	41	ND	ND		07/18/22	22:41	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	3.00	4.2	10	ND	ND		07/18/22	22:41	BP	467655
Chloromethane	ETO15	3.00	6.1	12	ND	ND		07/18/22	22:41	BP	467655
Vinyl Chloride	ETO15	3.00	0.68	3.8	ND	ND		07/18/22	22:41	BP	467655
1,3-Butadiene	ETO15	3.00	1.0	3.3	ND	ND		07/18/22	22:41	BP	467655
Bromomethane	ETO15	3.00	2.0	5.8	ND	ND		07/18/22	22:41	BP	467655
Chloroethane	ETO15	3.00	2.4	4.0	ND	ND		07/18/22	22:41	BP	467655
Trichlorofluoromethane	ETO15	3.00	1.7	8.4	ND	ND		07/18/22	22:41	BP	467655
1,1-Dichloroethene	ETO15	3.00	2.5	6.0	ND	ND		07/18/22	22:41	BP	467655
Freon 113	ETO15	3.00	3.1	11	ND	ND		07/18/22	22:41	BP	467655
Carbon Disulfide	ETO15	3.00	1.1	4.7	ND	ND		07/18/22	22:41	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	3.00	3.8	37	ND	ND		07/18/22	22:41	BP	467655
Methylene Chloride	ETO15	3.00	2.1	31	ND	ND		07/18/22	22:41	BP	467655
Acetone	ETO15	3.00	1.2	36	ND	ND		07/18/22	22:41	BP	467655
trans-1,2-Dichloroethene	ETO15	3.00	1.4	5.9	ND	ND		07/18/22	22:41	BP	467655
Hexane	ETO15	3.00	1.4	5.3	ND	ND		07/18/22	22:41	BP	467655
MTBE	ETO15	3.00	1.3	5.4	ND	ND		07/18/22	22:41	BP	467655
tert-Butanol	ETO15	3.00	1.9	4.5	ND	ND		07/18/22	22:41	BP	467655
Diisopropyl ether (DIPE)	ETO15	3.00	2.2	6.3	ND	ND		07/18/22	22:41	BP	467655
1,1-Dichloroethane	ETO15	3.00	1.6	6.1	ND	ND		07/18/22	22:41	BP	467655
ETBE	ETO15	3.00	0.98	6.3	ND	ND		07/18/22	22:41	BP	467655
cis-1,2-Dichloroethene	ETO15	3.00	2.5	5.9	ND	ND		07/18/22	22:41	BP	467655
Chloroform	ETO15	3.00	2.9	7.3	ND	ND		07/18/22	22:41	BP	467655
Vinyl Acetate	ETO15	3.00	2.3	5.3	ND	ND		07/18/22	22:41	BP	467655
Carbon Tetrachloride	ETO15	3.00	3.3	9.4	ND	ND		07/18/22	22:41	BP	467655
1,1,1-Trichloroethane	ETO15	3.00	2.4	8.2	28	5.13		07/18/22	22:41	BP	467655
2-Butanone (MEK)	ETO15	3.00	1.2	4.4	ND	ND		07/18/22	22:41	BP	467655
Ethyl Acetate	ETO15	3.00	1.4	5.4	ND	ND		07/18/22	22:41	BP	467655
Tetrahydrofuran	ETO15	3.00	1.3	4.4	ND	ND		07/18/22	22:41	BP	467655
Benzene	ETO15	3.00	1.3	4.8	ND	ND		07/18/22	22:41	BP	467655
TAME	ETO15	3.00	2.0	6.3	ND	ND		07/18/22	22:41	BP	467655
1,2-Dichloroethane (EDC)	ETO15	3.00	1.3	6.1	ND	ND		07/18/22	22:41	BP	467655
Trichloroethylene	ETO15	3.00	2.4	8.1	13	2.42		07/18/22	22:41	BP	467655
1,2-Dichloropropane	ETO15	3.00	2.3	6.9	ND	ND		07/18/22	22:41	BP	467655
Bromodichloromethane	ETO15	3.00	2.2	10	ND	ND		07/18/22	22:41	BP	467655
1,4-Dioxane	ETO15	3.00	5.4	11	ND	ND		07/18/22	22:41	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-11	**Lab Sample ID:**	2207125-014A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 13:10	**Certified Clean WO # :**	
Canister/Tube ID:	N1430	**Received PSI :**	13.5
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method: TO15-P **Prep Batch Date/Time:** 7/18/22 12:00:00PM
Prep Batch ID: 1143357 **Prep Analyst:** BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	3.00	3.2	6.8	ND	ND		07/18/22	22:41	BP	467655
Toluene	ETO15	3.00	2.3	5.7	ND	ND		07/18/22	22:41	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	3.00	2.2	6.2	ND	ND		07/18/22	22:41	BP	467655
cis-1,3-Dichloropropene	ETO15	3.00	1.3	6.8	ND	ND		07/18/22	22:41	BP	467655
1,1,2-Trichloroethane	ETO15	3.00	1.8	8.2	ND	ND		07/18/22	22:41	BP	467655
Dibromochloromethane	ETO15	3.00	3.3	13	ND	ND		07/18/22	22:41	BP	467655
1,2-Dibromoethane (EDB)	ETO15	3.00	2.2	12	ND	ND		07/18/22	22:41	BP	467655
2-Hexanone	ETO15	3.00	2.0	6.2	ND	ND		07/18/22	22:41	BP	467655
Ethyl Benzene	ETO15	3.00	1.9	6.5	ND	ND		07/18/22	22:41	BP	467655
Chlorobenzene	ETO15	3.00	1.8	6.9	ND	ND		07/18/22	22:41	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	3.00	2.5	10	ND	ND		07/18/22	22:41	BP	467655
m,p-Xylene	ETO15	3.00	2.9	6.5	ND	ND		07/18/22	22:41	BP	467655
o-Xylene	ETO15	3.00	0.91	6.5	ND	ND		07/18/22	22:41	BP	467655
Styrene	ETO15	3.00	1.4	6.4	ND	ND		07/18/22	22:41	BP	467655
Bromoform	ETO15	3.00	3.9	16	ND	ND		07/18/22	22:41	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	3.00	2.5	10	ND	ND		07/18/22	22:41	BP	467655
4-Ethyl Toluene	ETO15	3.00	1.6	7.4	ND	ND		07/18/22	22:41	BP	467655
1,3,5-Trimethylbenzene	ETO15	3.00	0.90	7.4	ND	ND		07/18/22	22:41	BP	467655
1,2,4-Trimethylbenzene	ETO15	3.00	1.8	7.4	ND	ND		07/18/22	22:41	BP	467655
1,4-Dichlorobenzene	ETO15	3.00	2.2	9.0	ND	ND		07/18/22	22:41	BP	467655
1,3-Dichlorobenzene	ETO15	3.00	4.0	9.0	ND	ND		07/18/22	22:41	BP	467655
1,2-Dichlorobenzene	ETO15	3.00	3.2	9.0	ND	ND		07/18/22	22:41	BP	467655
Hexachlorobutadiene	ETO15	3.00	5.6	16	ND	ND		07/18/22	22:41	BP	467655
1,2,4-Trichlorobenzene	ETO15	3.00	6.5	11	ND	ND		07/18/22	22:41	BP	467655
Naphthalene	ETO15	3.00	3.8	7.9	ND	ND		07/18/22	22:41	BP	467655
(S) 4-Bromofluorobenzene	ETO15	3.00	50	150	90 %			07/18/22	22:41	BP	467655

Prep Method: TO15-P **Prep Batch Date/Time:** 7/18/22 12:00:00PM
Prep Batch ID: 1143357 **Prep Analyst:** BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Tetrachloroethylene	ETO15	6.00	8.7	20	950	140.12		07/19/22	8:13	BP	467655
(S) 4-Bromofluorobenzene	ETO15	6.00	50	150	94 %			07/19/22	8:13	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-12	**Lab Sample ID:**	2207125-015A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 13:55	**Certified Clean WO # :**	
Canister/Tube ID:	N3947	**Received PSI :**	13.0
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		07/18/22	23:09	BP	467655
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		07/18/22	23:09	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		07/18/22	23:09	BP	467655
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		07/18/22	23:09	BP	467655
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		07/18/22	23:09	BP	467655
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		07/18/22	23:09	BP	467655
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		07/18/22	23:09	BP	467655
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		07/18/22	23:09	BP	467655
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		07/18/22	23:09	BP	467655
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		07/18/22	23:09	BP	467655
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		07/18/22	23:09	BP	467655
Carbon Disulfide	ETO15	1.00	0.37	1.6	3.0	0.96		07/18/22	23:09	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		07/18/22	23:09	BP	467655
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		07/18/22	23:09	BP	467655
Acetone	ETO15	1.00	0.40	12	29	12.18		07/18/22	23:09	BP	467655
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		07/18/22	23:09	BP	467655
Hexane	ETO15	1.00	0.46	1.8	ND	ND		07/18/22	23:09	BP	467655
MTBE	ETO15	1.00	0.44	1.8	ND	ND		07/18/22	23:09	BP	467655
tert-Butanol	ETO15	1.00	0.62	1.5	ND	ND		07/18/22	23:09	BP	467655
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		07/18/22	23:09	BP	467655
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		07/18/22	23:09	BP	467655
ETBE	ETO15	1.00	0.33	2.1	ND	ND		07/18/22	23:09	BP	467655
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		07/18/22	23:09	BP	467655
Chloroform	ETO15	1.00	0.97	2.4	6.8	1.39		07/18/22	23:09	BP	467655
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		07/18/22	23:09	BP	467655
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		07/18/22	23:09	BP	467655
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	6.1	1.12		07/18/22	23:09	BP	467655
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	4.9	1.66		07/18/22	23:09	BP	467655
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		07/18/22	23:09	BP	467655
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		07/18/22	23:09	BP	467655
Benzene	ETO15	1.00	0.44	1.6	ND	ND		07/18/22	23:09	BP	467655
TAME	ETO15	1.00	0.67	2.1	ND	ND		07/18/22	23:09	BP	467655
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		07/18/22	23:09	BP	467655
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		07/18/22	23:09	BP	467655
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		07/18/22	23:09	BP	467655
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		07/18/22	23:09	BP	467655
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		07/18/22	23:09	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-12	**Lab Sample ID:**	2207125-015A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 13:55	**Certified Clean WO # :**	
Canister/Tube ID:	N3947	**Received PSI :**	13.0
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		07/18/22	23:09	BP	467655
Toluene	ETO15	1.00	0.75	1.9	ND	ND		07/18/22	23:09	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		07/18/22	23:09	BP	467655
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		07/18/22	23:09	BP	467655
Tetrachloroethylene	ETO15	1.00	1.5	3.4	67	9.88		07/18/22	23:09	BP	467655
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		07/18/22	23:09	BP	467655
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		07/18/22	23:09	BP	467655
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		07/18/22	23:09	BP	467655
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		07/18/22	23:09	BP	467655
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		07/18/22	23:09	BP	467655
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		07/18/22	23:09	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		07/18/22	23:09	BP	467655
m,p-Xylene	ETO15	1.00	0.98	2.2	ND	ND		07/18/22	23:09	BP	467655
o-Xylene	ETO15	1.00	0.30	2.2	ND	ND		07/18/22	23:09	BP	467655
Styrene	ETO15	1.00	0.46	2.1	ND	ND		07/18/22	23:09	BP	467655
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		07/18/22	23:09	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		07/18/22	23:09	BP	467655
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		07/18/22	23:09	BP	467655
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		07/18/22	23:09	BP	467655
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		07/18/22	23:09	BP	467655
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		07/18/22	23:09	BP	467655
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		07/18/22	23:09	BP	467655
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		07/18/22	23:09	BP	467655
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	6.8	0.64		07/18/22	23:09	BP	467655
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		07/18/22	23:09	BP	467655
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		07/18/22	23:09	BP	467655
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	94 %			07/18/22	23:09	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-13	**Lab Sample ID:**	2207125-016A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 14:10	**Certified Clean WO # :**	
Canister/Tube ID:	A12193	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22 12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		07/18/22	23:43	BP	467655
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		07/18/22	23:43	BP	467655
1,2-Dichlorotetrafluoroethane	ETO15	1.00	1.4	3.5	ND	ND		07/18/22	23:43	BP	467655
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		07/18/22	23:43	BP	467655
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		07/18/22	23:43	BP	467655
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		07/18/22	23:43	BP	467655
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		07/18/22	23:43	BP	467655
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		07/18/22	23:43	BP	467655
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		07/18/22	23:43	BP	467655
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		07/18/22	23:43	BP	467655
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		07/18/22	23:43	BP	467655
Carbon Disulfide	ETO15	1.00	0.37	1.6	1.6	0.51		07/18/22	23:43	BP	467655
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		07/18/22	23:43	BP	467655
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		07/18/22	23:43	BP	467655
Acetone	ETO15	1.00	0.40	12	54	22.69		07/18/22	23:43	BP	467655
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		07/18/22	23:43	BP	467655
Hexane	ETO15	1.00	0.46	1.8	ND	ND		07/18/22	23:43	BP	467655
MTBE	ETO15	1.00	0.44	1.8	ND	ND		07/18/22	23:43	BP	467655
tert-Butanol	ETO15	1.00	0.62	1.5	ND	ND		07/18/22	23:43	BP	467655
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		07/18/22	23:43	BP	467655
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	2.3	0.57		07/18/22	23:43	BP	467655
ETBE	ETO15	1.00	0.33	2.1	ND	ND		07/18/22	23:43	BP	467655
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		07/18/22	23:43	BP	467655
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		07/18/22	23:43	BP	467655
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		07/18/22	23:43	BP	467655
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		07/18/22	23:43	BP	467655
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		07/18/22	23:43	BP	467655
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	4.9	1.66		07/18/22	23:43	BP	467655
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		07/18/22	23:43	BP	467655
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		07/18/22	23:43	BP	467655
Benzene	ETO15	1.00	0.44	1.6	ND	ND		07/18/22	23:43	BP	467655
TAME	ETO15	1.00	0.67	2.1	ND	ND		07/18/22	23:43	BP	467655
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		07/18/22	23:43	BP	467655
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		07/18/22	23:43	BP	467655
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		07/18/22	23:43	BP	467655
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		07/18/22	23:43	BP	467655
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		07/18/22	23:43	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:37 pm
Date Reported: 07/22/22

Client Sample ID:	SG-13	**Lab Sample ID:**	2207125-016A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Air
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 14:10	**Certified Clean WO # :**	
Canister/Tube ID:	A12193	**Received PSI :**	11.9
Collection Volume (L):		**Corrected PSI :**	
SDG:			

Prep Method:	TO15-P	**Prep Batch Date/Time:**	7/18/22	12:00:00PM
Prep Batch ID:	1143357	**Prep Analyst:**	BPATEL	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		07/18/22	23:43	BP	467655
Toluene	ETO15	1.00	0.75	1.9	ND	ND		07/18/22	23:43	BP	467655
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		07/18/22	23:43	BP	467655
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		07/18/22	23:43	BP	467655
Tetrachloroethylene	ETO15	1.00	1.5	3.4	55	8.11		07/18/22	23:43	BP	467655
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		07/18/22	23:43	BP	467655
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		07/18/22	23:43	BP	467655
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		07/18/22	23:43	BP	467655
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		07/18/22	23:43	BP	467655
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		07/18/22	23:43	BP	467655
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		07/18/22	23:43	BP	467655
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		07/18/22	23:43	BP	467655
m,p-Xylene	ETO15	1.00	0.98	2.2	ND	ND		07/18/22	23:43	BP	467655
o-Xylene	ETO15	1.00	0.30	2.2	ND	ND		07/18/22	23:43	BP	467655
Styrene	ETO15	1.00	0.46	2.1	ND	ND		07/18/22	23:43	BP	467655
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		07/18/22	23:43	BP	467655
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		07/18/22	23:43	BP	467655
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		07/18/22	23:43	BP	467655
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		07/18/22	23:43	BP	467655
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		07/18/22	23:43	BP	467655
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		07/18/22	23:43	BP	467655
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	ND	ND		07/18/22	23:43	BP	467655
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		07/18/22	23:43	BP	467655
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		07/18/22	23:43	BP	467655
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		07/18/22	23:43	BP	467655
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		07/18/22	23:43	BP	467655
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	95 %			07/18/22	23:43	BP	467655

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:43 pm
Date Reported: 07/22/22

Client Sample ID:	MW-3	**Lab Sample ID:**	2207124-001A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 10:23		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/18/22 11:17:00AM
Prep Batch ID:	1143326	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	07/18/22	16:30	JZ	467617
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	07/18/22	16:30	JZ	467617
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
TAME	SW8260B	1	0.072	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	07/18/22	16:30	JZ	467617

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:43 pm
Date Reported: 07/22/22

Client Sample ID:	MW-3	**Lab Sample ID:**	2207124-001A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 10:23		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/18/22 11:17:00AM
Prep Batch ID:	1143326	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	07/18/22	16:30	JZ	467617
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/18/22	16:30	JZ	467617
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	07/18/22	16:30	JZ	467617
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	07/18/22	16:30	JZ	467617
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	07/18/22	16:30	JZ	467617
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	07/18/22	16:30	JZ	467617
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	07/18/22	16:30	JZ	467617
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**118**		%	07/18/22	16:30	JZ	467617
(S) Toluene-d8	SW8260B		75.1 - 127		**97.1**		%	07/18/22	16:30	JZ	467617
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**101**		%	07/18/22	16:30	JZ	467617

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:43 pm
Date Reported: 07/22/22

Client Sample ID:	MW-3	**Lab Sample ID:**	2207124-001A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 10:23		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	7/18/22	11:17:00AM
Prep Batch ID:	1143327	**Prep Analyst:**	JZHAO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH Gasoline	8260TPH	1	29	50	ND		ug/L	07/18/22	16:30	JZ	467617
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**72.4**		%	07/18/22	16:30	JZ	467617

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 5:43 pm
Date Reported: 07/22/22

Client Sample ID:	MW-3	**Lab Sample ID:**	2207124-001B
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/15/22 / 10:23		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	7/19/22 9:23:00AM
Prep Batch ID:	1143299	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	07/19/22	21:03	SN	467715
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	07/19/22	21:03	SN	467715
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**40.4**		%	07/19/22	21:03	SN	467715

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-1	**Lab Sample ID:**	2207108-001A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 10:10		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	07/15/22	19:58	JZ	467555
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	07/15/22	19:58	JZ	467555
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,1-Dichloroethane	SW8260B	1	0.12	0.50	**3.3**		ug/L	07/15/22	19:58	JZ	467555
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	**19**		ug/L	07/15/22	19:58	JZ	467555
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	**3.8**		ug/L	07/15/22	19:58	JZ	467555
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
TAME	SW8260B	1	0.072	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Trichloroethylene	SW8260B	1	0.15	0.50	**3.1**		ug/L	07/15/22	19:58	JZ	467555
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Tetrachloroethylene	SW8260B	1	0.24	0.50	**32**		ug/L	07/15/22	19:58	JZ	467555
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	07/15/22	19:58	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-1	**Lab Sample ID:**	2207108-001A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 10:10		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	07/15/22	19:58	JZ	467555
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	19:58	JZ	467555
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	07/15/22	19:58	JZ	467555
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	07/15/22	19:58	JZ	467555
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	07/15/22	19:58	JZ	467555
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	19:58	JZ	467555
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	19:58	JZ	467555
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**120**		%	07/15/22	19:58	JZ	467555
(S) Toluene-d8	SW8260B		75.1 - 127		**95.5**		%	07/15/22	19:58	JZ	467555
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**105**		%	07/15/22	19:58	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-1	**Lab Sample ID:**	2207108-001A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 10:10		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	7/15/22	11:25:00AM
Prep Batch ID:	1143255	**Prep Analyst:**	JZHAO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH Gasoline	8260TPH	1	29	50	**136**	x	ug/L	07/15/22	19:58	JZ	467555
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**91.1**		%	07/15/22	19:58	JZ	467555

NOTE: Reported TPH value includes amount due to discrete peak (cis-1,2DCE, TCE and PCE).

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-1	**Lab Sample ID:**	2207108-001B
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 10:10		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	7/19/22 9:23:00AM
Prep Batch ID:	1143299	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	07/19/22	18:40	SN	467715
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	07/19/22	18:40	SN	467715
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**82.6**		%	07/19/22	18:40	SN	467715

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-2	**Lab Sample ID:**	2207108-002A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 12:20		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	07/15/22	20:28	JZ	467555
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	07/15/22	20:28	JZ	467555
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
TAME	SW8260B	1	0.072	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	07/15/22	20:28	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-2	**Lab Sample ID:**	2207108-002A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 12:20		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	07/15/22	20:28	JZ	467555
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:28	JZ	467555
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	07/15/22	20:28	JZ	467555
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	07/15/22	20:28	JZ	467555
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	07/15/22	20:28	JZ	467555
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	20:28	JZ	467555
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	20:28	JZ	467555
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**120**		%	07/15/22	20:28	JZ	467555
(S) Toluene-d8	SW8260B		75.1 - 127		**98.3**		%	07/15/22	20:28	JZ	467555
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**107**		%	07/15/22	20:28	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-2	**Lab Sample ID:**	2207108-002A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 12:20		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	7/15/22	11:25:00AM
Prep Batch ID:	1143255	**Prep Analyst:**	JZHAO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH Gasoline	8260TPH	1	29	50	ND		ug/L	07/15/22	20:28	JZ	467555
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**82.5**		%	07/15/22	20:28	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-2	**Lab Sample ID:**	2207108-002B
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 12:20		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	7/19/22 9:23:00AM
Prep Batch ID:	1143299	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	07/19/22	19:04	SN	467715
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	07/19/22	19:04	SN	467715
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**76.6**		%	07/19/22	19:04	SN	467715

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-4	**Lab Sample ID:**	2207108-003A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 13:45		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	07/15/22	20:58	JZ	467555
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	07/15/22	20:58	JZ	467555
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
TAME	SW8260B	1	0.072	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Trichloroethylene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Tetrachloroethylene	SW8260B	1	0.24	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	07/15/22	20:58	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-4	**Lab Sample ID:**	2207108-003A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 13:45		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	07/15/22	20:58	JZ	467555
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	20:58	JZ	467555
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	07/15/22	20:58	JZ	467555
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	07/15/22	20:58	JZ	467555
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	07/15/22	20:58	JZ	467555
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	20:58	JZ	467555
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	20:58	JZ	467555
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**119**		%	07/15/22	20:58	JZ	467555
(S) Toluene-d8	SW8260B		75.1 - 127		**97.7**		%	07/15/22	20:58	JZ	467555
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**105**		%	07/15/22	20:58	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-4	**Lab Sample ID:**	2207108-003A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 13:45		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143255	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH Gasoline	8260TPH	1	29	50	ND		ug/L	07/15/22	20:58	JZ	467555
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**70.9**		%	07/15/22	20:58	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-4	**Lab Sample ID:**	2207108-003B
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 13:45		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	7/19/22 9:23:00AM
Prep Batch ID:	1143299	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	07/19/22	19:27	SN	467715
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	07/19/22	19:27	SN	467715
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**79.7**		%	07/19/22	19:27	SN	467715

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-5	**Lab Sample ID:**	2207108-004A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:00		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	07/15/22	21:28	JZ	467555
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	07/15/22	21:28	JZ	467555
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	**0.59**		ug/L	07/15/22	21:28	JZ	467555
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
TAME	SW8260B	1	0.072	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Trichloroethylene	SW8260B	1	0.15	0.50	**0.51**		ug/L	07/15/22	21:28	JZ	467555
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Tetrachloroethylene	SW8260B	1	0.24	0.50	**3.2**		ug/L	07/15/22	21:28	JZ	467555
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	07/15/22	21:28	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-5	**Lab Sample ID:**	2207108-004A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:00		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	07/15/22	21:28	JZ	467555
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:28	JZ	467555
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	07/15/22	21:28	JZ	467555
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	07/15/22	21:28	JZ	467555
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	07/15/22	21:28	JZ	467555
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	21:28	JZ	467555
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	21:28	JZ	467555
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**120**		%	07/15/22	21:28	JZ	467555
(S) Toluene-d8	SW8260B		75.1 - 127		**97.6**		%	07/15/22	21:28	JZ	467555
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**107**		%	07/15/22	21:28	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-5	**Lab Sample ID:**	2207108-004A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:00		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143255	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH Gasoline	8260TPH	1	29	50	ND		ug/L	07/15/22	21:28	JZ	467555
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**75.4**		%	07/15/22	21:28	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-5	**Lab Sample ID:**	2207108-004B
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:00		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	7/19/22 9:23:00AM
Prep Batch ID:	1143299	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	07/19/22	19:52	SN	467715
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	07/19/22	19:52	SN	467715
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**68.8**		%	07/19/22	19:52	SN	467715

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-6	**Lab Sample ID:**	2207108-005A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:30		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	07/15/22	21:58	JZ	467555
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	07/15/22	21:58	JZ	467555
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,1-Dichloroethane	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	**2.3**		ug/L	07/15/22	21:58	JZ	467555
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
TAME	SW8260B	1	0.072	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Trichloroethylene	SW8260B	1	0.15	0.50	**1.1**		ug/L	07/15/22	21:58	JZ	467555
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Tetrachloroethylene	SW8260B	1	0.24	0.50	**2.4**		ug/L	07/15/22	21:58	JZ	467555
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	07/15/22	21:58	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-6	**Lab Sample ID:**	2207108-005A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:30		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	07/15/22	21:58	JZ	467555
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	21:58	JZ	467555
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	07/15/22	21:58	JZ	467555
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	07/15/22	21:58	JZ	467555
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	07/15/22	21:58	JZ	467555
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	21:58	JZ	467555
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	21:58	JZ	467555
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**120**		%	07/15/22	21:58	JZ	467555
(S) Toluene-d8	SW8260B		75.1 - 127		**99.0**		%	07/15/22	21:58	JZ	467555
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**106**		%	07/15/22	21:58	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-6	**Lab Sample ID:**	2207108-005A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:30		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143255	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH Gasoline	8260TPH	1	29	50	**51.2**	x	ug/L	07/15/22	21:58	JZ	467555
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**78.0**		%	07/15/22	21:58	JZ	467555

NOTE: Reported TPH value includes amount due to discrete peak (cis-1,2DCE, TCE and PCE).

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-6	**Lab Sample ID:**	2207108-005B
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 16:30		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	7/19/22	9:23:00AM	
Prep Batch ID:	1143299	**Prep Analyst:**	AKIZ		

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	07/19/22	20:16	SN	467715
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	07/19/22	20:16	SN	467715
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**68.8**		%	07/19/22	20:16	SN	467715

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-7	**Lab Sample ID:**	2207108-006A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 11:15		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Chloromethane	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Vinyl Chloride	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Bromomethane	SW8260B	1	0.21	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Chloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Trichlorofluoromethane	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,1-Dichloroethene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Freon 113	SW8260B	1	0.34	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Methylene Chloride	SW8260B	1	0.13	1.0	ND		ug/L	07/15/22	22:28	JZ	467555
trans-1,2-Dichloroethene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
MTBE	SW8260B	1	0.077	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
tert-Butanol	SW8260B	1	2.9	5.0	ND		ug/L	07/15/22	22:28	JZ	467555
DIPE	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,1-Dichloroethane	SW8260B	1	0.12	0.50	**1.2**		ug/L	07/15/22	22:28	JZ	467555
ETBE	SW8260B	1	0.064	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
cis-1,2-Dichloroethene	SW8260B	1	0.15	0.50	**13**		ug/L	07/15/22	22:28	JZ	467555
2,2-Dichloropropane	SW8260B	1	0.094	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Bromochloromethane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Chloroform	SW8260B	1	0.12	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Carbon Tetrachloride	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,1,1-Trichloroethane	SW8260B	1	0.16	0.50	**0.73**		ug/L	07/15/22	22:28	JZ	467555
1,1-Dichloropropene	SW8260B	1	0.19	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Benzene	SW8260B	1	0.065	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
TAME	SW8260B	1	0.072	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,2-Dichloroethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Trichloroethylene	SW8260B	1	0.15	0.50	**1.3**		ug/L	07/15/22	22:28	JZ	467555
Dibromomethane	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,2-Dichloropropane	SW8260B	1	0.089	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Bromodichloromethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
cis-1,3-Dichloropropene	SW8260B	1	0.078	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Toluene	SW8260B	1	0.14	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Tetrachloroethylene	SW8260B	1	0.24	0.50	**6.3**		ug/L	07/15/22	22:28	JZ	467555
trans-1,3-Dichloropropene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,1,2-Trichloroethane	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Dibromochloromethane	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,3-Dichloropropane	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,2-Dibromoethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Chlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Ethylbenzene	SW8260B	1	0.20	0.50	ND		ug/L	07/15/22	22:28	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-7	**Lab Sample ID:**	2207108-006A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 11:15		
SDG:			

Prep Method:	5030GRO	**Prep Batch Date/Time:**	7/15/22	11:25:00AM
Prep Batch ID:	1143255	**Prep Analyst:**	JZHAO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH Gasoline	8260TPH	1	29	50	**66.1**	x	ug/L	07/15/22	22:28	JZ	467555
(S) 4-Bromofluorobenzene	8260TPH		41.5 - 125		**74.1**		%	07/15/22	22:28	JZ	467555

NOTE: Reported TPH value includes amount due to discrete peak (cis-1,2DCE, TCE and PCE).

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-7	**Lab Sample ID:**	2207108-006A
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 11:15		
SDG:			

Prep Method:	5030VOC	**Prep Batch Date/Time:**	7/15/22 11:25:00AM
Prep Batch ID:	1143254	**Prep Analyst:**	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	1	0.087	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
m,p-Xylene	SW8260B	1	0.39	1.0	ND		ug/L	07/15/22	22:28	JZ	467555
o-Xylene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Styrene	SW8260B	1	0.11	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Bromoform	SW8260B	1	0.076	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Isopropyl Benzene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
n-Propylbenzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
Bromobenzene	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,1,2,2-Tetrachloroethane	SW8260B	1	0.079	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
2-Chlorotoluene	SW8260B	1	0.25	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,3,5-Trimethylbenzene	SW8260B	1	0.24	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,2,3-Trichloropropane	SW8260B	1	0.15	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
4-Chlorotoluene	SW8260B	1	0.22	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
tert-Butylbenzene	SW8260B	1	0.26	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,2,4-Trimethylbenzene	SW8260B	1	0.23	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
sec-Butyl Benzene	SW8260B	1	0.30	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
p-Isopropyltoluene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,3-Dichlorobenzene	SW8260B	1	0.17	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,4-Dichlorobenzene	SW8260B	1	0.18	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
n-Butylbenzene	SW8260B	1	0.27	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,2-Dichlorobenzene	SW8260B	1	0.16	0.50	ND		ug/L	07/15/22	22:28	JZ	467555
1,2-Dibromo-3-Chloropropane	SW8260B	1	0.76	2.0	ND		ug/L	07/15/22	22:28	JZ	467555
Hexachlorobutadiene	SW8260B	1	0.62	2.0	ND		ug/L	07/15/22	22:28	JZ	467555
1,2,4-Trichlorobenzene	SW8260B	1	0.93	2.0	ND		ug/L	07/15/22	22:28	JZ	467555
Naphthalene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	22:28	JZ	467555
1,2,3-Trichlorobenzene	SW8260B	1	1.2	2.0	ND		ug/L	07/15/22	22:28	JZ	467555
(S) Dibromofluoromethane	SW8260B		61.2 - 131		**120**		%	07/15/22	22:28	JZ	467555
(S) Toluene-d8	SW8260B		75.1 - 127		**97.8**		%	07/15/22	22:28	JZ	467555
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		**101**		%	07/15/22	22:28	JZ	467555

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Monica Kunzel
Engeo (San Ramon)

Date/Time Received: 07/15/22, 10:00 am
Date Reported: 07/22/22

Client Sample ID:	MW-7	**Lab Sample ID:**	2207108-006B
Project Name/Location:	Cedar Boulevard	**Sample Matrix:**	Groundwater
Project Number:	15799.004.000		
Date/Time Sampled:	07/13/22 / 11:15		
SDG:			

Prep Method:	3510_TPH SG	**Prep Batch Date/Time:**	7/19/22 9:23:00AM
Prep Batch ID:	1143299	**Prep Analyst:**	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.037	0.10	ND		mg/L	07/19/22	20:39	SN	467715
TPH as Motor Oil (SG)	SW8015B	1	0.11	0.40	ND		mg/L	07/19/22	20:39	SN	467715
			Acceptance Limits								
Pentacosane (S)	SW8015B		40 - 129		**63.6**		%	07/19/22	20:39	SN	467715

APPENDIX E-1

MEMORANDUM

DATE: 2 May 2023

NAME:	COMPANY:	EMAIL:
Cedar Blvd Townhomes LLC c/o Caden Proctor	**Waymark Development**	caden@waymarkdev.com

FROM: Josh Roper, PE, LEED® AP
Matthew Hsiung

SUBJECT: **38600 Cedar Boulevard, Newark, CA**
Environmental Review of Construction Noise and Vibration

PROJECT: 22-0336

This memo discusses construction noise and vibration for the townhome project at 38600 Cedar Boulevard in Newark, California. The project consists of approximately 72 to 74 three-story residential units in sixteen buildings with common outdoor use space. The site is adjacent to Interstate 880. Existing residences are located across Cedar Boulevard, and a motel is located to the southeast. Construction at the site is expected to commence around October 2023 and be complete around April of 2026.

Noise and vibration levels from construction activities will vary significantly depending on the type of equipment being used, the process, and the location. Construction will not include pile driving. Interior roads to the site may use vibratory rollers, and demolition is expected to use jackhammers. Tasks/phases are expected to consist of the following: site demolition and preparation, grading, utilities, home construction, and landscaping. The Noise section of Newark's General Plan Tune Up EIR, dated 13 August 2013, identifies the following typical levels for construction equipment:

Construction Equipment	Typical Noise Level (dBA) at 50 Feet	Construction Equipment	Typical Noise Level (dBA) at 50 Feet
Air Compressor	81	Jackhammer	88
Backhoe	80	Loader	85
Compactor	82	Paver	89
Concrete Mixer	85	Pneumatic Tool	85
Concrete Pump	71	Pump	76
Concrete Vibrator	76	Roller	74
Dozer	85	Saw	76
Generator	81	Scraper	89
Impact Wrench	85	Truck	88

Noise – The following noise reduction measures will be implemented to minimize the impact of construction noise onto offsite receivers:

- Construction activity will generally be limited to the hours of 7 AM to 7 PM Monday through Friday. Noise from construction activity occurring outside these hours will be limited to the levels outlined in Municipal Code section 17.24.100-3.
- The contractor shall require properly maintained mufflers on construction vehicles.
- To the extent feasible, stationary construction equipment and staging areas shall be located as far as possible from adjacent residences and the motel.
- The contractor shall consider temporary noise barriers between noisy activities and adjacent residences and the motel.
- To the extent feasible, construction should proceed from Cedar Boulevard towards Intestate 880, and from south to north, so that constructed buildings will help shield residences from equipment and construction activities.
- The contractor will designate a "noise disturbance coordinator" who would be responsible for responding to any local complaints about construction noise.
- Signs will be posted at the construction site to notify the neighborhood of permitted days and hours of activities, and to provide a day-time telephone number for the noise disturbance coordinator.

Vibration – The City has requested that the project review the potential for construction vibration from vibration-intensive activities such as jackhammers and vibratory rollers near sensitive receptors and compare levels with FTA vibration annoyance criteria included in Action EH7.E of the Newark General Plan Tune Up EIR. The document identifies the following groundborne vibration levels for construction equipment:

Construction Equipment	Approximate Velocity at 25 Feet (VdB)	Approximate PPV at 25 Feet (inch/sec)
Large Bulldozer	87	0.089
Jackhammer	79	0.035
Small Bulldozer	58	0.003
Loaded Trucks	86	0.076
Vibratory Roller	94	0.210
Human Annoyance (Daytime)	78 to 90*	-
Structural Damage	-	0.2 to 0.5**

* Depending on affected land use. For residential 78 VdB, for offices 84 VdB, workshops 90 VdB.

** Depending on affected building structure, for timber and masonry buildings 0.2 in/sec, for reinforced-concrete, steel, or timber 0.5 in/sec.

The site appears to be over 100 feet from the nearest residences across Cedar Boulevard and planned internal roadway/parking areas appear to be approximately 10 feet from the nearest portion of the adjacent motel building to the southeast. Offsetting the vibration levels identified in the tables above for distance, and comparing both residences and the motel building with the 78 VdB annoyance criteria and 0.2 PPV threshold for possible damage, results in the following:

- Limit large bulldozers and loaded trucks to 50 feet and farther from the motel building(s)
- Limit jackhammering to 30 feet and farther from the motel building(s)
- Limit the use of vibratory rollers to 85 feet and farther from the motel building(s)

Please call with any questions.

* * *

11 November 2022

Caden Proctor
Waymark Development
2801 West Coast Hwy, Suite 270
Newport Beach, CA 92663
caden@waymarkdev.com

Subject: **38600 Cedar Boulevard – Newark, CA**
Environmental Noise Assessment
Salter Project 22-0336

Dear Caden:

This report summarizes our environmental noise assessment for the 38600 Cedar Boulevard project in Newark, California. The project consists of approximately 72 to 74 three-story residential units in sixteen buildings with common outdoor use space. The site is relatively flat and located adjacent to Interstate 880 (I-880). The site is currently being used as a construction machinery lot with auto shops located to the northwest. The purpose of this study is to address compliance with the City of Newark requirements. Following is a summary of our findings:

1. Sound rated windows and doors will be needed to reduce environmental noise in residences to the Code requirement of DNL[1] 45 dB[2] or lower indoors, due to exterior sources.
    a. Estimates indicate that sound insulation ratings up to STC[3] 42, with upgraded exterior walls, will be needed at the façade of homes nearest to and fronting I-880.
    b. With the inclusion of an 18-foot tall noise barrier along I-880, initial estimates suggest that windows and exterior doors will need to be STC 30 to 38 at the lower floors of the homes façade fronting I-880.

---

1 DNL (Day-Night Average Sound Level) – A descriptor for a 24-hour A-weighted average noise level. DNL accounts for the increased acoustical sensitivity of people to noise during the nighttime hours. DNL penalizes sound levels by 10 dB during the hours from 10 PM to 7 AM. For practical purposes, the DNL and CNEL are usually interchangeable. DNL is sometimes written as L_{dn}.

2 A-Weighted Sound Level – The A-weighted sound pressure level, expressed in decibels (dB). Sometimes the unit of sound level is written as dB(A). A weighting is a standard weighting that accounts for the sensitivity of human hearing to the range of audible frequencies. People perceive a 10 dB increase in sound level to be twice as loud.

3 STC (Sound Transmission Class) – A single-number rating defined in ASTM E90 that quantifies the airborne sound insulating performance of a partition under laboratory conditions. Increasing STC ratings correspond to improved airborne sound insulation.

2. Estimates indicate that an 18-foot tall noise barrier along I-880 will need to be constructed to reduce traffic noise in outdoor use spaces close to I-880 to approximately DNL 65 dB.
3. Since windows will need to be closed to meet the interior noise criterion, the mechanical design should meet ventilation requirements with windows in the closed position.

ACOUSTICAL CRITERIA

City of Newark General Plan

The Noise Element of the City of Newark General Plan adopted 12 December 2013 contains land use compatibility guidelines for environmental noise in the community. Table 1 summarizes these guidelines for multi-family residential land use.

Table 1: Summary of Table EH-2 – Noise Compatibility Guidelines for Newark

DNL Value in Decibels Multi-Family Residential	Compatibility for Community Noise environments
65 dB or less	Normally Acceptable: Specified land use is satisfactory based upon the assumption that any buildings involved are of normal conventional construction, without any special noise insulation requirements.
60 to 70 dB	Conditionally Acceptable: New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and the needed noise insulation features are included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.
70 to 75 dB	Normally Unacceptable: New construction or development should generally be discouraged. If new construction does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.
Greater than 75 dB	Clearly Unacceptable: New construction or development generally should not be undertaken.

Additionally, the Noise Element includes the following policies and acoustic goals:

Policy EH-7.4

Plan for and implement strategies to maintain exterior noise levels that are consistent with the noise compatibility guidelines in Table EH-2. For residential areas, this limit is DNL 60 dB for outdoor living areas. Where this level is exceeded due to freeways, arterials, and/or railroads, the construction of berms, walls, buffer zones, and other noise-reduction measures to reduce noise to the greatest extent feasible will be required.

Policy EH-7.5

Use site planning and architectural design to protect occupants of new buildings from excessive noise, per California State Noise Insulation Standards (California Code of Regulations, Title 24) and Chapter 35 of the Uniform Building Code (UBC). For example, site planning should place bedrooms and other noise-sensitive rooms away from exterior noise sources and architectural design should use double-paned windows and other insulating measures to reduce interior noise.

California Building Code

Consistent with the City's General Plan Policy EH-7.5, the California Building Code (CBC), part of the California Code or Regulations, includes acoustical requirements for interior sound levels in habitable rooms of multi-family housing. In summary, the CBC limits interior noise levels to DNL 45 dB or lower due to exterior noise sources.

NOISE ENVIRONMENT

To quantify the existing noise environment, two multi-day monitors continuously logged sound levels at the site between 11 and 13 July 2022. Table 2 and Figure 1, attached, summarize measured existing noise levels and approximate locations measured at the site.

Table 2: Existing Noise Environment

Site	Location	DNL
LT-1	Interstate 880 Monitor Approximately 100' south of I-880 centerline, 10' above grade	80 dB
LT-2	Cedar Boulevard Monitor Approximately 30' north of Cedar Boulevard centerline, 10' above grade	74 dB

The analysis and recommendations section below estimates the noise levels at the various building facades using our measured data and data measured recently at other sites using CadnaA computer modeling software. We understand a traffic study has not been prepared for the project. Estimates include a 1 decibel increase in noise levels across the site to account for future traffic increases.[4]

ANALYSIS AND RECOMMENDATIONS

Interior Noise

Exterior building assemblies will need to be sound-rated to reduce environmental noise to the DNL 45 dB criterion indoors. Preliminary estimates suggest that window and exterior door sound insulation ratings up to STC 42, with upgraded exterior walls, will be needed at the façade of homes nearest to and facing I-880. Figures 2 to 4 show the preliminary STC ratings needed to meet the acoustic criteria, which include shielding from an 18-foot tall noise barrier adjacent to I-880. As shown, preliminary sound insulation ratings at the first and second floors of homes near I-880 are in the range of STC 32 to 38 and STC ratings will decrease at homes farther from I-880. These preliminary recommendations will need to be updated as the design continues and floor plans and elevations are finalized. The preliminary estimates are based on the following:

- Approximate room and window/door sizes shown in PPR Submittal drawings dated 20 June 2022
- An assumption that bedrooms will be carpeted and other rooms will either be carpeted or have hard-surfaced flooring
- Ventilation and exhaust systems will not compromise sound insulation of the exterior wall assemblies (this will need to be coordinated with the mechanical engineer as the design continues)
- Exterior walls are assumed to be single-stud assemblies with batt insulation in stud cavities, plywood sheathing, and stucco or lap siding on the exterior with a layer of gypsum board on the interior. At the façade facing I-880, upgraded walls should include a second layer of gypsum board on the unit interior and framing should be staggered stud or the interior gypsum board should be mounted on sound isolation clips (e.g., Pliteq GenieClip, Kinetics Isomax, or Pac International RSIC)
- Additional details will need to be developed to address other possible paths for noise transfer, such as attic vents

Sound insulation ratings should be for the complete assembly, including glass and frame, and should be based on laboratory test reports of similar sized samples from an NVLAP accredited lab. Since windows will need to be closed to meet the interior noise criteria, the mechanical design should meet ventilation requirements with windows in the closed position.

[4] The California Department of Transportation assumes a traffic volume increase of three percent per year, which corresponds to a 1 dB increase in DNL over a ten-year period.

Exterior Noise – Outdoor Use Spaces

Outdoor use space is expected to include a promenade and park along I-880, and various landscaped areas around the buildings. Without noise reduction measures, estimated future outdoor sound levels at these spaces would be up to approximately DNL 80 dB, and will depend on distance to and shielded from I-880. It will not be feasible to reduce traffic noise to the City's exterior noise goal of DNL 60 dB at this site. Estimates suggest that incorporating an approximately 18-foot tall noise barrier along I-880 will reduce traffic noise to DNL 65 dB and below at outdoor use spaces across the site. The height should be with respect to the freeway elevation, or yard elevation, whichever is higher. The barrier should extend the length of the site and wrap the ends, returning towards Cedar Boulevard. Details will need to be developed as the design continues.

Effective noise barriers may be comprised of various materials including CMU, plaster, wood (enhanced fencing), glass or plastic. They should be solid from bottom to top with no cracks or gaps and should have a minimum surface density of approximately three pounds per square foot.

Please let us know if you have any questions.

Best,

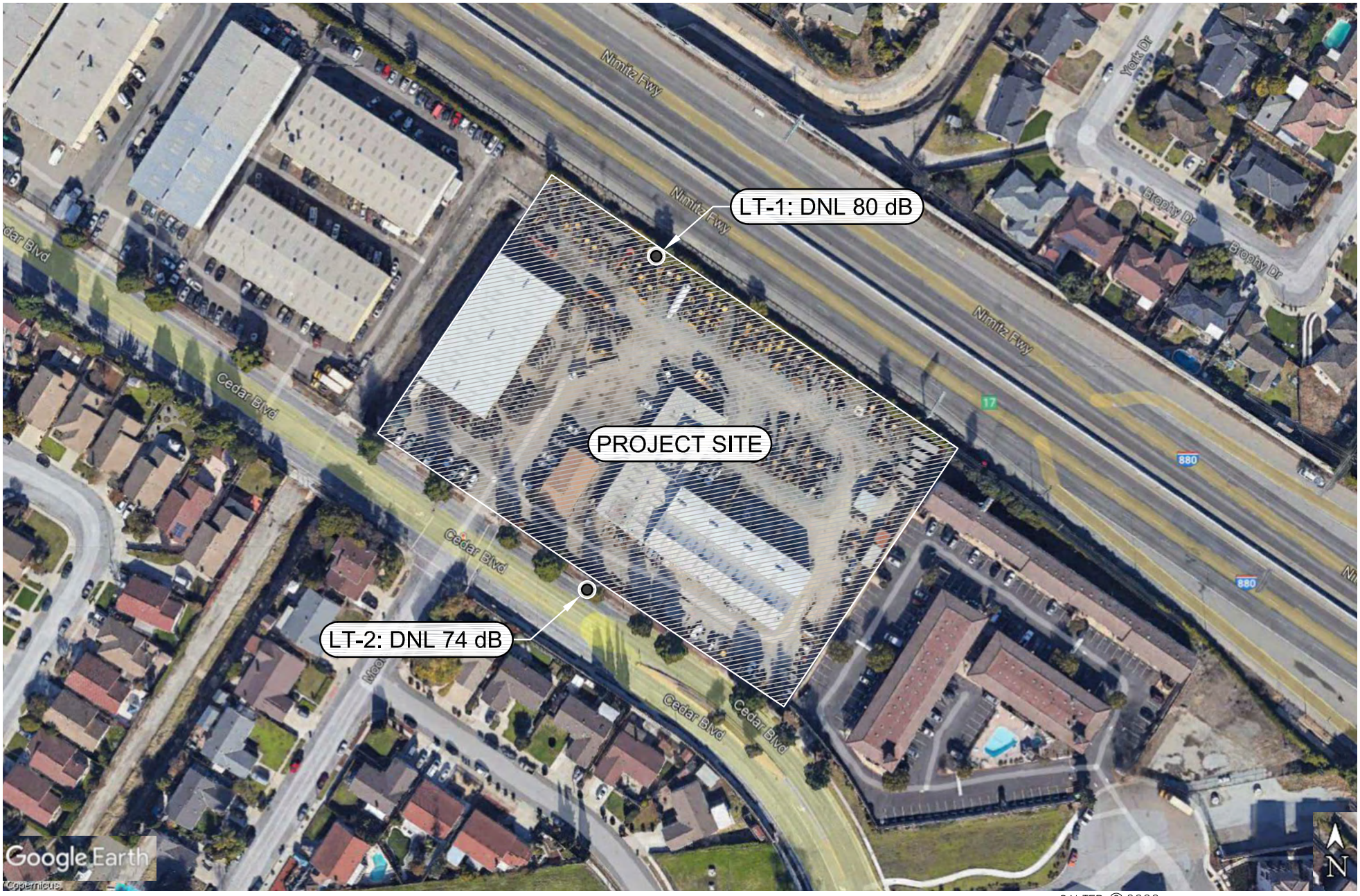
CHARLES M. SALTER ASSOCIATES, INC.



Matthew Hsiung
Consultant



Josh Roper, PE, LEED® AP
Vice President



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38600 CEDAR BOULEVARD
MEASUREMENT LOCATIONS AND MEASURED NOISE LEVELS

FIGURE 1

Salter #	MDH/JMR
22-0336	11.09.22

Salter

San Francisco

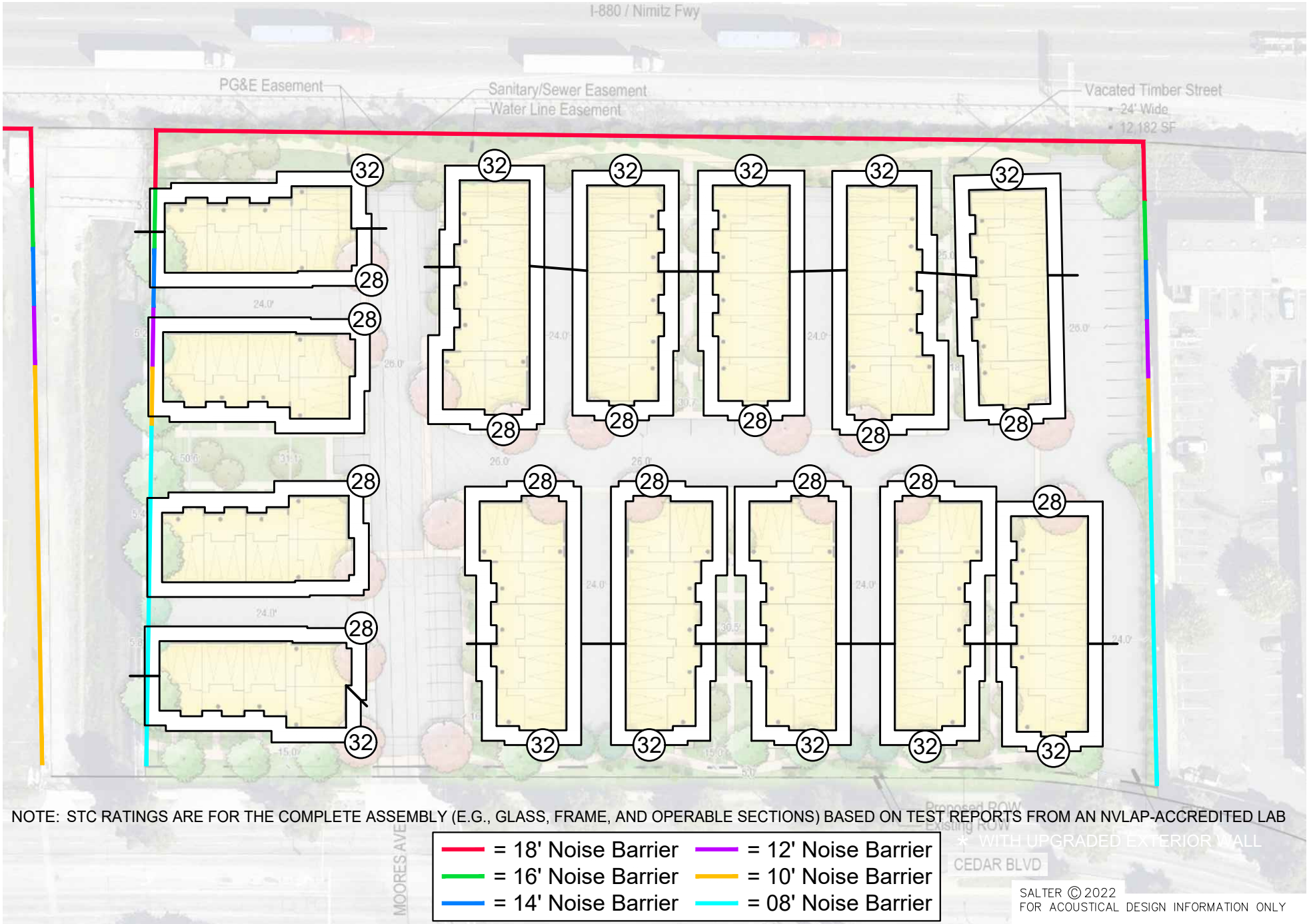
San Jose

Los Angeles

Honolulu

Seattle

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NOTE: STC RATINGS ARE FOR THE COMPLETE ASSEMBLY (E.G., GLASS, FRAME, AND OPERABLE SECTIONS) BASED ON TEST REPORTS FROM AN NVLAP-ACCREDITED LAB

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38600 CEDAR BOULEVARD
MINIMUM CODE-REQUIRED STC RATINGS FOR WINDOWS AND EXTERIOR DOORS (FLOOR 1)

FIGURE 2

Salter # 22-0336

MDH/JMR
11.09.22

Salter

San Francisco

San Jose

Los Angeles

Honolulu

Seattle

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38600 CEDAR BOULEVARD
MINIMUM CODE–REQUIRED STC RATINGS FOR WINDOWS AND EXTERIOR DOORS (FLOOR 2)

FIGURE 3

Salter # 22–0336

MDH/JMR
11.09.22

Salter

San Francisco

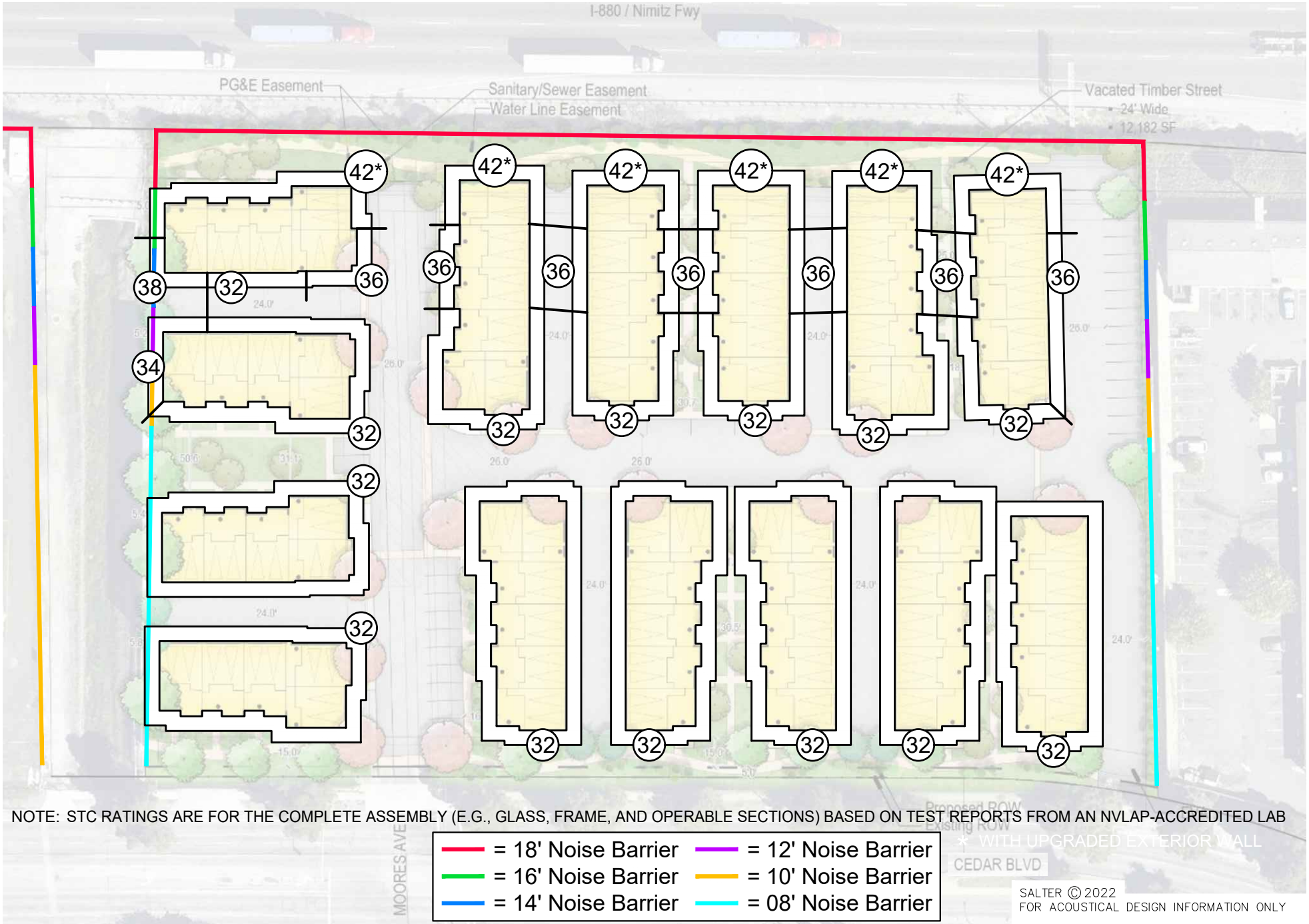
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MINIMUM CODE–REQUIRED STC RATINGS FOR WINDOWS AND EXTERIOR DOORS (FLOOR 3)

FIGURE 4

Salter # 22–0336

MDH/JMR
11.09.22

Traffic Impact Study Report

Cedar Boulevard Townhomes

City of Newark, California

November 11, 2022

Revised March 21, 2023

Revised April 21, 2023

This traffic impact analysis/study has been prepared under the direction of a professional engineer licensed to practice as a traffic engineer. The licensed professional engineer attests to the technical information contained therein, and has judged the qualifications of any technical specialists providing engineering data, which recommendations, conclusions, and decisions are based.

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TJKM

CONTENTS

Executive Summary **5**

1.0 Introduction **8**

1.1 Study Intersections and Scenarios 8

2.0 Study Methodology **11**

2.1 Vehicles Miles Traveled 11

2.1.1 VMT Screening Criteria 11

2.1.2 VMT Significance Standards 11

2.2 Level of Service Analysis Methodology 11

2.2.1 Signalized Intersections Methodology 12

2.2.2 Stop-Controlled Intersections Methodology 12

2.2.3 Impact Criteria/Level of Service Standards 14

3.0 Existing Conditions **15**

3.1 Existing Setting and Roadway System 15

3.2 Existing Pedestrian Facilities 15

3.3 Existing Bicycle Facilities 16

3.4 Existing Transit Facilities 16

3.5 Existing Peak Hour Traffic Volumes and Lane Configurations 21

3.6 Intersection Level of Service Analysis – Existing Conditions 21

4.0 Existing plus Project Conditions **24**

4.1 Project Description 24

4.2 Project Trip Generation 24

4.3 Project Trip Distribution and Assignment 25

4.4 Intersection Level of Service Analysis – Existing plus Project Conditions 27

5.0 Background Conditions Analysis **29**

5.1 Background Peak Hour Traffic Volumes and Lane Configurations 29

5.2 Intersection Level of Service Analysis – Background Conditions 29

6.0 Background plus Project Conditions **32**

6.1 Intersection Level of Service Analysis – Background plus Project Conditions 32

7.0 Cumulative Conditions Analysis **35**

7.1 Intersection Level of Service Analysis – Cumulative Conditions 35

8.0 Cumulative plus Project Conditions 38

8.1 Intersection Level of Service Analysis – Cumulative plus Project Conditions 38

9.0 Vehicle Miles Traveled 41

9.1 Vehicle Miles Traveled Analysis Methodology 41

9.2 Vehicle Miles Traveled Analysis Screening 41

9.3 VMT Forecasting and Analysis Results 41

10.0 Additional Analysis 43

10.1 Site Access and On-Site Circulation 43

10.2 Parking Analysis 43

10.3 Queuing and Driveway Analysis 44

10.5 Pedestrian, Bicycle, and Transit Impacts 46

10.5.1 Pedestrian Impacts 46

10.5.2 Bicycle Impacts 46

10.5.3 Transit Impacts 46

10.6 Signal Warrant Assessment for the Intersection of Cedar Boulevard and Smith Avenue. 46

Tables

Table 1: Level of Service Definitions for Signalized Intersections 13

Table 2: Level of Service Definitions for Stop-Controlled Intersections 13

Table 3: Existing Transit Services 17

Table 4: Intersection Level of Service Analysis – Existing Conditions 21

Table 5: Project Trip Generation 24

Table 6: Intersection Level of Service Analysis – Existing plus Project Conditions 27

Table 7: Intersection Level of Service Analysis – Background Conditions 30

Table 8: Intersection Level of Service Analysis – Background plus Project Conditions 33

Table 9: Intersection Level of Service Analysis – Cumulative Conditions 36

Table 10: Intersection Level of Service Analysis – Cumulative plus Project Conditions 39

Table 11: Land Use Changes for Base Year 42

Table 12: Home Based VMT Per Capita Comparison (South Alameda County Average) 42

Table 13: 95th Percentile Queues at Turn Pockets Affected by Project Traffic 45

Table 14: 95th Percentile Queues at Project Driveways 45

Figures

Figure 1: Vicinity Map 9
Figure 2: Site Plan 10
Figure 3: Existing Pedestrian Facilities 18
Figure 4: Existing Bicycle Facilities 19
Figure 5: Existing Transit Facilities 20
Figure 6: Existing Conditions Lane Geometry and Traffic Controls 22
Figure 7: Existing Conditions Peak Hour Traffic Volumes 23
Figure 8: Project Trip Distribution and Assignment 26
Figure 9: Existing plus Project Conditions Peak Hour Traffic Volumes 28
Figure 10: Background Conditions Peak Hour Traffic Volumes 31
Figure 11: Background plus Project Conditions Peak Hour Traffic Volumes 34
Figure 12: Cumulative Conditions Peak Hour Traffic Volumes 37
Figure 13: Cumulative plus Project Conditions Peak Hour Traffic Volumes 40
Figure 14: CA-MUTCD Warrant 3 Assessment for Intersection 4 47

Appendices

Appendix A – Level of Service Methodology

Appendix B – Vehicle, Bicycle, and Pedestrian Turning Movement Counts

Appendix C – Existing Conditions Intersections Level of Service Worksheets

Appendix D – Existing plus Project Conditions Intersections Level of Service Worksheets

Appendix E – Background Conditions Intersections Level of Service Worksheets

Appendix F – Background plus Project Conditions Intersections Level of Service Worksheets

Appendix G – Cumulative Conditions Intersections Level of Service Worksheets

Appendix H – Cumulative plus Project Conditions Intersections Level of Service Worksheets

Appendix I – ACTC Model Outputs

EXECUTIVE SUMMARY

This report summarizes the results of the Traffic Impact Study (TIS) conducted for the proposed development to be located at 38600 Cedar Boulevard in the City of Newark, California. The project proposes to replace the existing commercial use with an approximately 3.45-acre residential development consisting of 76 townhomes (note for the purposes of this study, 80 units were analyzed as part of the capacity, queuing, and vehicle-miles traveled assessments to be conservative). The purpose of this report is to provide summaries of traffic impacts to the surrounding transportation system.

The purpose of this TIS is to evaluate the impacts on the transportation infrastructure due to the addition of the traffic from the proposed project. The report includes evaluations and recommendations concerning project site access and on-site circulation, vehicle-miles travelled (VMT) impacts, and capacity and queuing impacts at nearby intersections.

TJKM evaluated the impacts on the transportation infrastructure due to the addition of traffic from the proposed project at five study intersections during the weekday morning (a.m.) and weekday afternoon (p.m.) peak hours under six study scenarios. The study intersections were evaluated under No Project and Plus Project scenarios for Existing, Background, and Cumulative Conditions.

Project Trip Generation

TJKM expects the project will generate 562 additional daily trips than the existing development, of which 31 (six inbound, 25 outbound) trips generated during the a.m. peak hour and 33 (24 inbound, nine outbound) trips generated during the p.m. peak hour.

Vehicle Miles Traveled (VMT) Analysis

Project VMT contributions were assessed and are expected to have a **less than significant** impact.

Existing Conditions Capacity Analysis

Under this scenario, all intersections operate at an acceptable level of service (LOS) D or better during both peak hours.

Existing plus Project Conditions Capacity Analysis

Under this scenario, all intersections are anticipated to continue to operate at an acceptable level of LOS D or better during both peak. Based on the City of Newark thresholds impact criteria, the project is expected to have a **less than adverse** impact at the study intersections under this scenario.

Background Conditions Capacity Analysis

Under this scenario, the intersection at Mowry Avenue and Alpenrose Court (Intersection 3) operates at unacceptable LOS F during the p.m. peak hour, and the intersection at Cedar Boulevard and Smith Avenue (Intersection 4) operates at unacceptable LOS E during the a.m. peak hour. The remaining intersections operate at acceptable LOS D or better during both peak hours.

Background plus Project Conditions Capacity Analysis

Under this scenario, the intersection at Mowry Avenue and Alpenrose Court (Intersection 3) continues to operate at unacceptable LOS F during the p.m. peak hour, and the intersection of Cedar Boulevard and Smith Avenue (Intersection 4) continues to operate at unacceptable LOS E during the a.m. peak hour. These two intersections experience an increase in overall vehicular delay by 0.3 seconds or less with project traffic. The remaining intersections continue operate at acceptable LOS D or better during both peak hours. Based on the City of Newark thresholds impact criteria, the project is expected to have **less than adverse** impact at the study intersections under this scenario.

Cumulative Conditions Capacity Analysis

Under this scenario, the intersection at Cedar Boulevard and Mowry Avenue (Intersection 2) operates at unacceptable LOS E during both peak hours. The intersection at Mowry Avenue and Alpenrose Court (Intersection 3) continues to operate at unacceptable LOS F during the p.m. peak hour, and the intersection at Cedar Boulevard and Smith Avenue (Intersection 4) continues to operate at unacceptable LOS F during the a.m. peak hour. The remaining intersections continue operate at acceptable LOS D or better during both peak hours.

Cumulative plus Project Conditions Capacity Analysis

Under this scenario, the intersection at Cedar Boulevard and Mowry Avenue (Intersection 2) continues to operate at unacceptable LOS E during both peak hours. The intersection at Mowry Avenue and Alpenrose Court (Intersection 3) continues to operate at unacceptable LOS F during the p.m. peak hour, and the intersection at Cedar Boulevard and Smith Avenue (Intersection 4) continues to operate at unacceptable LOS F during the a.m. peak hour. These three intersections experience an increase in overall vehicular delay by 3.8 seconds or less with project traffic. The remaining intersections continue to operate at acceptable LOS D or better during both peak hours. Based on the City of Newark thresholds impact criteria, the project is expected to have **less than adverse** impact at all the study intersections under this scenario.

Site Access and On-Site Circulation

Access to the proposed project would be via full access driveway at the north leg of the Cedar Boulevard and Moores Avenue (Intersection 1) intersection. Bicycle and pedestrian access are acceptable, including sidewalks, signalized pedestrian crossings, and bicycle lanes, leading to the project site. Site access and circulation are expected to be **adequate**.

Parking

The project site plan (dated April 21, 2023) shows a supply of 190 parking spaces for the 76 townhomes. The proposed parking supply of 152 garage, 26 head-in, eight head-in compact, and four parallel spaces is expected to be **sufficient**.

Queuing and Driveway Analysis

Traffic associated with the project increases the 95th percentile queues for all left or right turn pockets at the study intersections by 21 feet for less during the peak hours. The 95th percentile queues at the project's driveway are expected to extended less than one car length during all "plus Project" scenarios. Thus, the project is expected to have **less than adverse** impact at all the study intersections.

Pedestrian, Bicycle and Transit Impacts

The proposed project does not conflict with existing and planned pedestrian or bicycle facilities and will add very few trips to existing transit facilities. Existing transit capacity is expected to be able to accommodate additional demand generated by the development. Therefore, the impacts to pedestrian, bicycle, and transit facilities are **less than significant**.

Signal Warrant Assessment for the Intersection of Cedar Boulevard and Smith Avenue

Under Background and Cumulative conditions, the intersection of Cedar Boulevard and Smith Avenue (Intersection 4), which is the only unsignalized study intersection, will begin to operate at unacceptable levels of service during the a.m. peak hour. These conditions occur regardless of the proposed development. In order to preliminarily assess if a traffic signal would be warranted at this location, Warrant 3 (referred to as the "Peak Hour" warrant) from the California Manual on Uniform Traffic Control Devices (CA-MUTCD) was utilized. Based on the results, a signal is not warranted at Intersection 4.

Recommendations

The following items are recommended with respect to the intersection of Cedar Boulevard / Moores Avenue (Intersection 1) as part of the project:

- Crosswalks (including pedestrian signal heads and push buttons) be installed along the newly proposed north leg (the site entrance) and along the west leg of the intersection.
- A tactile surface for the existing curb ramp be provided at the northeast corner of the intersection.

As illustrated on current plans (dated April 2023), these recommendations are being pursued as part of the application.

1.0 INTRODUCTION

This report summarizes the results of the Traffic Impact Study (TIS) conducted for the proposed residential development at 38600 Cedar Boulevard in the City of Newark, California. The applicant proposes to replace an existing construction equipment store of approximately 33,000 square feet with 76 townhomes (note for the purposes of this study, 80 units were analyzed to be conservative).

1.1 Study Intersections and Scenarios

TJKM evaluated traffic conditions at five study intersections during the a.m. and p.m. peak hours for a typical weekday. The study intersections were approved by the City of Newark staff. The peak periods observed were between 7:00-9:00 a.m. and 4:00-6:00 p.m. The study intersections and associated traffic controls are as follows:

1. Cedar Boulevard/Moores Avenue (Signal)
2. Cedar Boulevard/Mowry Avenue (Signal)
3. Mowry Avenue/Alpenrose Court (Signal)
4. Cedar Boulevard/Smith Avenue (One-Way Stop)
5. Cedar Boulevard/Central Avenue (Signal)

Figure 1 illustrates the study intersections and the vicinity map of the proposed project. **Figure 2** shows the proposed site plan.

This study addresses the following two traffic scenarios:

- **Existing Conditions** – This scenario evaluates the study intersections based on existing traffic volumes, lane geometry and traffic controls.
- **Existing plus Project Conditions** – This scenario is identical to Existing Conditions, but with the addition of traffic from the proposed project.
- **Background Conditions** – This scenario evaluates the study intersections based on background traffic volumes, lane geometry, and traffic controls.
- **Background plus Project Conditions** – This scenario is identical to Background Conditions, but with the addition of traffic from the proposed project.
- **Cumulative Conditions** – This scenario evaluates the study intersections based on cumulative (year 2040) traffic volumes, lane geometry, and traffic controls.
- **Cumulative plus Project Conditions** – This scenario is identical to Cumulative Conditions, but with the addition of traffic from the proposed project.

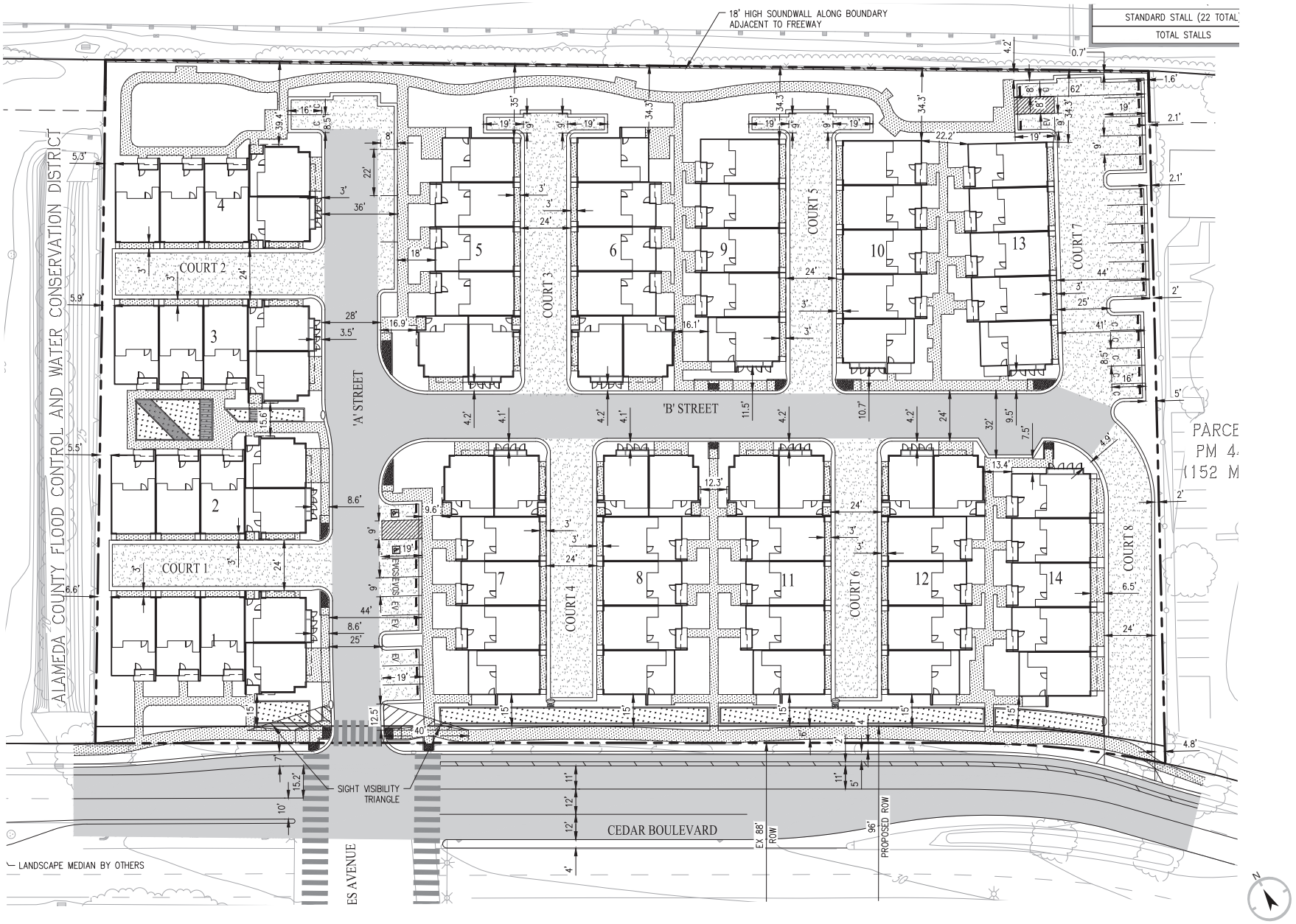
Figure 1: Vicinity Map



LEGEND

- Project Site
- Project Driveway
- Study Intersection

Figure 2: Site Plan



2.0 STUDY METHODOLOGY

Traffic impacts related to the proposed project were evaluated for both compliance with applicable regulatory documents and environmental significance as defined in the California Environmental Quality Act (CEQA). In accordance with the Technical Advisory published by the Governor's Office of Planning and Research (OPR), a qualitative Vehicle-Miles Traveled (VMT) analysis forms the basis of the CEQA analysis for the proposed project. Effective as of July 1, 2020, intersection level of service (LOS) can no longer be used to determine significant impacts for CEQA purposes.

2.1 Vehicles Miles Traveled

This study includes a quantitative analysis of VMT generated by the proposed project. California Senate Bill (SB) No. 743 is intended to reduce greenhouse gas emissions and particulates, encourage infill development and a diversity of uses instead of sprawl, and promote multi-modal transportation networks.

As of October 2022, the City of Newark has not adopted VMT procedures standards, so OPR guidelines were used.

2.1.1 VMT Screening Criteria

The adopted guidelines include the following screening criteria for identifying projects that can be presumed to have a less than significant impact:

- projects exempt from CEQA analysis,
- small projects,
- local serving projects,
- projects in transit priority areas, and
- projects in low VMT areas.

2.1.2 VMT Significance Standards

Under OPR guidelines, a residential project would have a significant impact on VMT if it would generate residential VMT per capita higher than 85 percent of the City of Newark's average.

2.2 Level of Service Analysis Methodology

LOS standards are no longer used for identifying impacts under CEQA, however level of service analysis is still used for determining consistency with adopted agency plans and standards. Where standards refer to significant environmental impacts, this analysis instead identifies these as significant inconsistencies with adopted plans.

LOS is a qualitative measure that describes operational conditions as they relate to the traffic stream and perceptions by motorists and passengers. The LOS generally describes these conditions in terms of such factors as speed and travel time, delays, freedom to maneuver, traffic interruptions, comfort, convenience, and safety. The operational LOS are given letter designations from A to F, with A representing the best operating conditions (free-flow) and F the worst (severely congested flow with high delays). Intersections generally are the capacity-controlling locations with respect to traffic operations on arterial and collector streets.

Each of the study intersections was analyzed using *Synchro,* Version 11, software using the methodology presented in the Transportation Research Board's (TRB) Highway Capacity Manual (HCM) 6th Edition. The LOS assessment under all scenarios is based on current traffic controls and lane geometries unless otherwise specified. Of note, as requested by the City, the peak hour factors utilized for all other scenarios in this report were assumed as 1.0.

2.2.1 Signalized Intersections Methodology

The study intersections under traffic signal control were analyzed using the HCM 6th Edition methodology for signalized intersections described in Chapter 19. This methodology determines LOS based on average control delay per vehicle for the overall intersection during peak hour intersection operating conditions. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. **Table 1** summarizes the relationship between the control delay and LOS for signalized intersections.

The LOS methodology is described for Signalized intersections in detail in **Appendix A**.

2.2.2 Stop-Controlled Intersections Methodology

The study intersections under one/two-way stop control and all-way stop control were analyzed using the HCM 6th Edition methodology described in Chapter 20 and 21, respectively. LOS ratings for stop-sign controlled intersections are based on the average control delay expressed in seconds per vehicle.

At one- or two-way stop controlled intersections, the control delay is calculated for each movement, not for the intersection as a whole. For approaches composed of a single lane, the control delay is computed as the average of all movements in that lane. The weighted average delay for the entire intersections is presented for all-way stop controlled intersections.

Table 2 summarizes the relationship between delay and LOS for unsignalized intersections. The delay ranges for unsignalized intersections are lower than for signalized intersections as drivers expect less delay at unsignalized intersections.

The LOS methodology is described for unsignalized intersections in detail in **Appendix A**.

Table 1: Level of Service Definitions for Signalized Intersections

Level of Service	Description
A	Very low control delay, up to 10 seconds per vehicle. Progression is extremely favorable, and most vehicles arrive during the green phase. Many vehicles do not stop at all. Short cycle lengths may tend to contribute to low delay values.
B	Control delay greater than 10 and up to 20 seconds per vehicle. There is good progression or short cycle lengths or both. More vehicles stop causing higher levels of delay.
C	Control delay greater than 20 and up to 35 seconds per vehicle. Higher delays are caused by fair progression or longer cycle lengths or both. Individual cycle failures may begin to appear. Cycle failure occurs when a given green phase does not serve queued vehicles, and overflow occurs. The number of vehicles stopping is significant, though many still pass through the intersection without stopping.
D	Control delay greater than 35 and up to 55 seconds per vehicle. The influence of congestions becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high volumes. Many vehicles stop, the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.
E	Control delay greater than 55 and up to 80 seconds per vehicle. The limit of acceptable delay. High delays usually indicate poor progression, long cycle lengths, and high volumes. Individual cycle failures are frequent.
F	Control delay in excess of 80 seconds per vehicle. Unacceptable to most drivers. Oversaturation, arrival flow rates exceed the capacity of the intersection. Many individual cycle failures. Poor progression and long cycle lengths may also be contributing factors to higher delay.

Source: Transportation Research Board's (TRB) Highway Capacity Manual (HCM), 6th Edition

Table 2: Level of Service Definitions for Stop-Controlled Intersections

Level of Service	Description
A	Very low control delay less than 10 seconds per vehicle for each movement subject to delay.
B	Low control delay greater than 10 and up to 15 seconds per vehicle for each movement subject to delay.
C	Acceptable control delay greater than 15 and up to 25 seconds per vehicle for each movement subject to delay.
D	Tolerable control delay greater than 25 and up to 35 seconds per vehicle for each movement subject to delay.
E	Limit of tolerable control delay greater than 35 and up to 50 seconds per vehicle for each movement subject to delay.
F	Unacceptable control delay in excess of 50 seconds per vehicle for each movement subject to delay.

Source: TRB's HCM, 6th Edition

2.2.3 Impact Criteria/Level of Service Standards

Based on City of Newark Guideline thresholds, a project would result in an adverse impact on traffic conditions at a signalized intersection if for either peak hour:

a) The level of service at the intersection degrades from an acceptable LOS D or better under no-project conditions to an unacceptable LOS E or F under project conditions;
b) The level of service at the intersection is an unacceptable LOS under no-project conditions and the addition of project trips causes the average delay at the intersection to increase by four (4) or more seconds

An adverse impact by the City of Newark standards is said to be satisfactorily mitigated when measures are implemented that would restore intersection level of service to no project conditions or better.

3.0 EXISTING CONDITIONS

This section describes existing conditions in the immediate project site vicinity, including roadway facilities, bicycle and pedestrian facilities, and available transit service. In addition, existing traffic volumes and operations are presented for the study intersections, including the results of LOS calculations.

3.1 Existing Setting and Roadway System

Important roadways in the immediate vicinity of the project site are discussed below:

Interstate 880 (I-880) is a north-south freeway that extends from Oakland to San Jose through Santa Clara County and Alameda County. Within the vicinity of the project site, I-880 is an eight-lane freeway with three general-purpose lanes and one high-occupancy vehicle (HOV) lane in each direction

Mowry Avenue is an east-west, six-lane divided arterial with a raised median. It extends from Mission Boulevard in the east to its termination in the City of Newark to the west. Mowry Avenue connects the cities of Newark and Fremont and facilitates traffic to and from Interstate 880 and Mission Boulevard (State Route 238). The posted speed limit on Mowry Avenue is 35 mph within the project vicinity. . Access to the project site from I-880 is provided via ramps at Mowry Avenue.

Cedar Boulevard is a north-south, four-lane arterial road with a raised median along some portions. It extends from the intersection with Stevenson Boulevard in the north to its termination at Haley Street within the City of Newark. The posted speed limit on Cedar Boulevard is 35 mph within the project vicinity.

Alpenrose Court is a two- to four-lane local roadway with a raised median south of Mowry Avenue. It extends from Newpark Mall Road in the south to its termination point, approximately 215 feet north of Mowry Avenue. Alpenrose Court provides access to Newpark Mall and other retail and restaurant and uses. Alpenrose Court does not have a posted speed limit.

Moores Avenue is an east-west, two-lane undivided collector road. It extends from Cedar Boulevard in the east to Cherry Street within the City of Newark. It primarily provides access to single-family homes. Moores Avenue features unsignalized intersections, except at Cedar Boulevard. There is no posted speed limit on Moores Avenue for the entire length of the roadway.

Smith Avenue is an east-west, two-lane undivided collector road. It extends from Cedar Boulevard in the east, to its termination in the west, within the City of Newark. It provides access to single-family homes, an elementary school, a church, and park, between Cedar Boulevard and Cherry Street, and industrial land uses west of Cherry Street. Smith Avenue features unsignalized intersections, except at Cherry Street. The posted speed limit on Smith Avenue is 25 mph.

3.2 Existing Pedestrian Facilities

Walkability is the ability to travel easily and safely between various origins and destinations without having to rely on automobiles or other motorized travel. The ideal "walkable" community includes wide sidewalks, a mix of land uses such as residential, employment, and shopping opportunities, a limited number of conflict points with vehicle traffic, and easy access to transit facilities, and services.

Pedestrian facilities are comprised of crosswalks, sidewalks, pedestrian signals, and off-street paths, which provide safe and convenient routes for pedestrians to access destinations such as institutions, businesses, public transportation, and recreation facilities.

In the immediate project vicinity, sidewalks exist on both sides of surrounding roadways. Cedar Boulevard provides continuous sidewalks on both sides between Stevenson Boulevard and Haley Street, with a gap on the east side for 350 feet north of Smith Avenue and for a quarter of a mile north of Central Avenue. Continuous sidewalks exist on both sides of Moores Avenue and Smith Avenue between Cherry Street and Cedar Boulevard, and on both sides of Mowry Avenue in the project study area. A continuous sidewalk exists on the west side of Alpenrose Court. ADA-compliant curb ramps connect sidewalks at all study intersections with the exception of some approach legs, which have curb ramps but do not provide textured warning surfaces for visually impaired pedestrians. Crosswalks are present at the study intersections, with pedestrian signals at all signalized intersections. There are adequate pedestrian facilities in the project vicinity. **Figure 3** illustrates the existing pedestrian facilities in the project vicinity.

3.3 Existing Bicycle Facilities

Bicycle facilities include the following:

- Bike Paths (Class I) – Paved trails that are separated from roadways.
- Bike Lanes (Class II) – Lanes on roadways designated for use by bicycles through striping, pavement legends, and signs.
- Bike Routes (Class III) – Designated roadways for bicycle use by signs or other markings may or may not include additional pavement width for cyclists.

The following facilities were identified:

Class II Bike Lanes

- Cedar Boulevard between Balentine Drive and Central Avenue

Class III Bike Routes

- Cedar Boulevard between Stevenson Boulevard and Balentine Drive

Figure 4 illustrates the existing bicycle facilities in the project vicinity.

3.4 Existing Transit Facilities

AC Transit, which operates local and express buses throughout Alameda County and Contra Costa County, provides bus service in the project vicinity. The nearest Bay Area Rapid Transit (BART) station is the Fremont BART station, which is 3.5 miles (walking distance) from the project site and can be accessible by AC transit bus service within the project study area. The nearest bus stop is located at the intersection of Cedar Boulevard and Moores Avenue, which provides access to the project site.

Routes 200, 232, 620, 626 and 628 are accessible at the bus stops located at the project site. These routes also connect to Union City and Fremont BART stations through various residential neighborhoods in north Newark.

BART provides commuter heavy-rail service to the San Francisco Peninsula with communities in the East Bay and South Bay. The project is located at about 3.5 miles (walking distance) west of the Fremont BART station. The Fremont BART station serves two regional train routes, connecting Richmond in the north, San Francisco/Daly City in the northwest, and San Jose in the south. Weekday peak commute headways are between 20 and 30 minutes. Currently, access to the Fremont BART station is from the west side of the train tracks, via the Walnut Avenue and Mowry Avenue underpass.

Table 3 describes the services and frequency of all AC Transit routes operating in the project vicinity. **Figure 5** illustrates the existing transit service system map in the City of Newark.

Table 3: Existing Transit Services

Route	From	To	via	Weekdays		Weekends	
				Operating Hours	Headway (minutes)	Operating Hours	Headway (minutes)
200	Fremont BART	Union City BART	Mowry Ave., NewPark Mall, Central Ave., Newark Blvd., and Decoto Rd.	7:00 a.m. – 11:00 p.m.	20-30	7:00 a.m. – 11:00 p.m.	20-30
232	NewPark Mall	Fremont BART	Cedar Blvd., Paseo Padre Pkwy., Union City BART, and Mission Blvd.	7:00 a.m. – 7:00 p.m.	30+	7:00 a.m. – 7:00 p.m.	30+
620	Cedar Blvd/Stevenson Blvd	Newark Jr. High School	Cedar Blvd., Central Ave., Sycamore St., Thornton Ave., Newark Ave., and Lafayette Ave.	7:41 a.m. – 3:31 p.m.	60+	-	-
626/ 628	Lido Faire Shopping Center	Newark Memorial High School	Balentine Dr., Cedar Blvd., Newark Blvd., and Central Ave.	7:48 a.m. – 3:57 p.m.	-	-	-

Source: http://www.actransit.org/

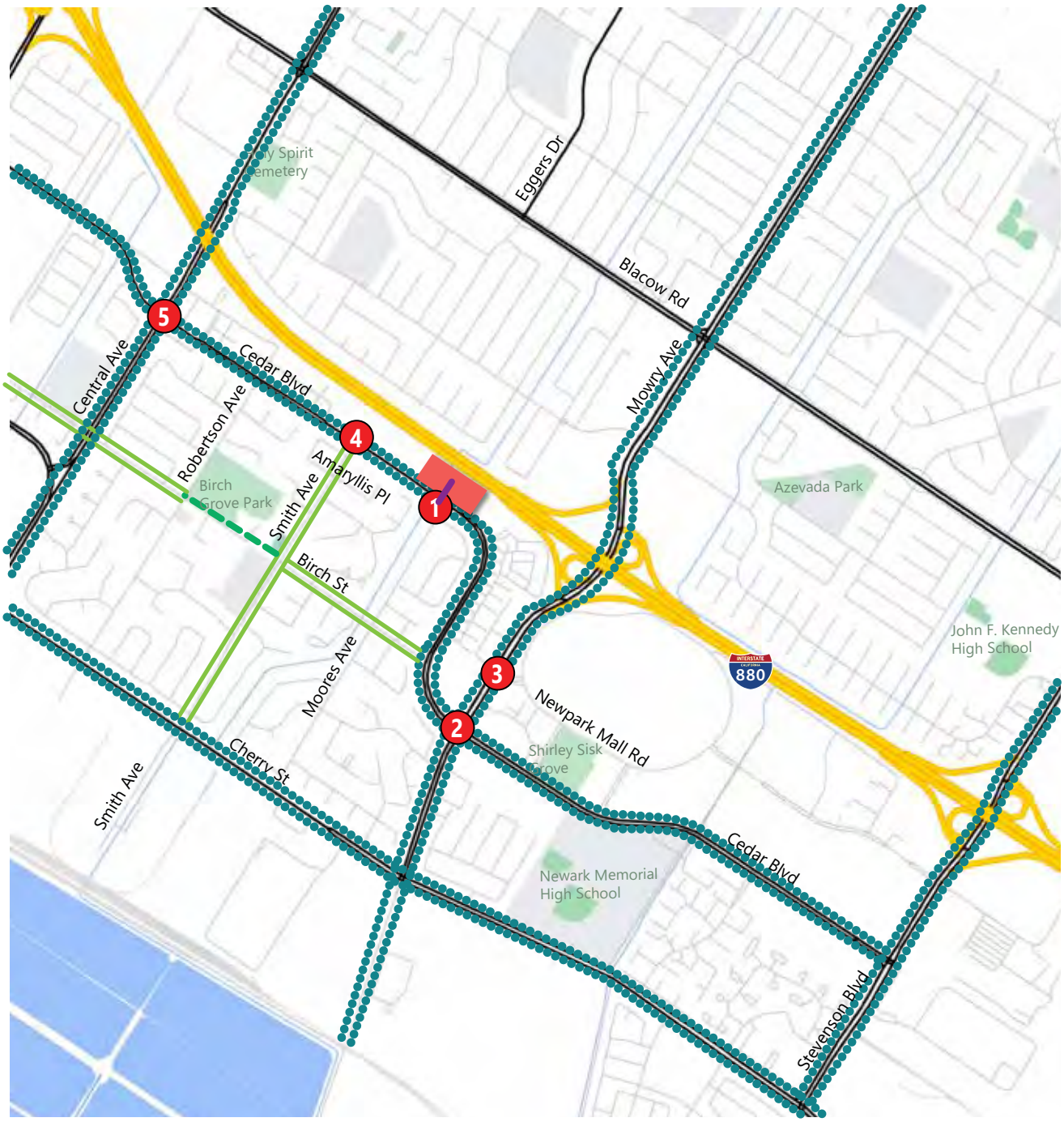
Figure 3: Existing Pedestrian Facilities



LEGEND

- Project Site
- Project Driveway
- Study Intersection
- Sidewalk
- Marked Crosswalk

Figure 4: Existing Bicycle Facilities



LEGEND

- Project Site
- Project Driveway
- Study Intersection
- Class I Bike Path
- Class II Bike Lane
- Class III Bike Route

Figure 5: Existing Transit Facilities



3.5 Existing Peak Hour Traffic Volumes and Lane Configurations

TJKM evaluated the existing operations of the study intersections for the highest one-hour volumes during weekday morning and evening peak periods. TJKM collected new turning movement counts for vehicles, bicycles, and pedestrians during the weekday a.m. peak period (7:00-9:00 a.m.) and p.m. peak period (4:00-6:00 p.m.) at the study intersections, on Tuesday, September 20, 2022.

Appendix B includes all data sheets for the collected vehicle, bicycle, and pedestrian counts at the study intersections.

The City of Newark provided current signal timing sheets for the study intersections. **Figure 6** illustrates the existing lane geometry, and traffic controls at the study intersections. **Figure 7** illustrates the existing a.m. and p.m. peak hour vehicle turning movement volumes at the study intersections.

Peak hour factors of 1.00 were applied at all study intersections under Existing Conditions.

3.6 Intersection Level of Service Analysis – Existing Conditions

Table 4 summarizes the results of the LOS analysis using the *Synchro*, version 11, software program under Existing Conditions. Intersections that operated at LOS E or F are shown in red.

Under this scenario, all of the study intersections operate at an acceptable LOS D or better during both a.m. and p.m. peak hours.

Appendix C contains detailed level of service calculation sheets for Existing Conditions.

Table 4: Intersection Level of Service Analysis – Existing Conditions

#	Study Intersections	Control	Method	Peak Hour[1]	Existing Conditions	
					Average Delay[2]	LOS[3]
1	Cedar Boulevard/Moores Avenue	Signal	HCM 2000	AM	3.5	A
				PM	4.6	A
2	Cedar Boulevard/Mowry Avenue	Signal	HCM 6th	AM	24.6	C
				PM	25.5	C
3	Mowry Avenue/Alpenrose Court	Signal	HCM 2000	AM	15.3	B
				PM	19.9	B
4	Cedar Boulevard/Smith Avenue	One-Way Stop	HCM 6th	AM	20.4	C
				PM	13.0	B
5	Cedar Boulevard/Central Avenue	Signal	HCM 6th	AM	23.3	C
				PM	24.8	C

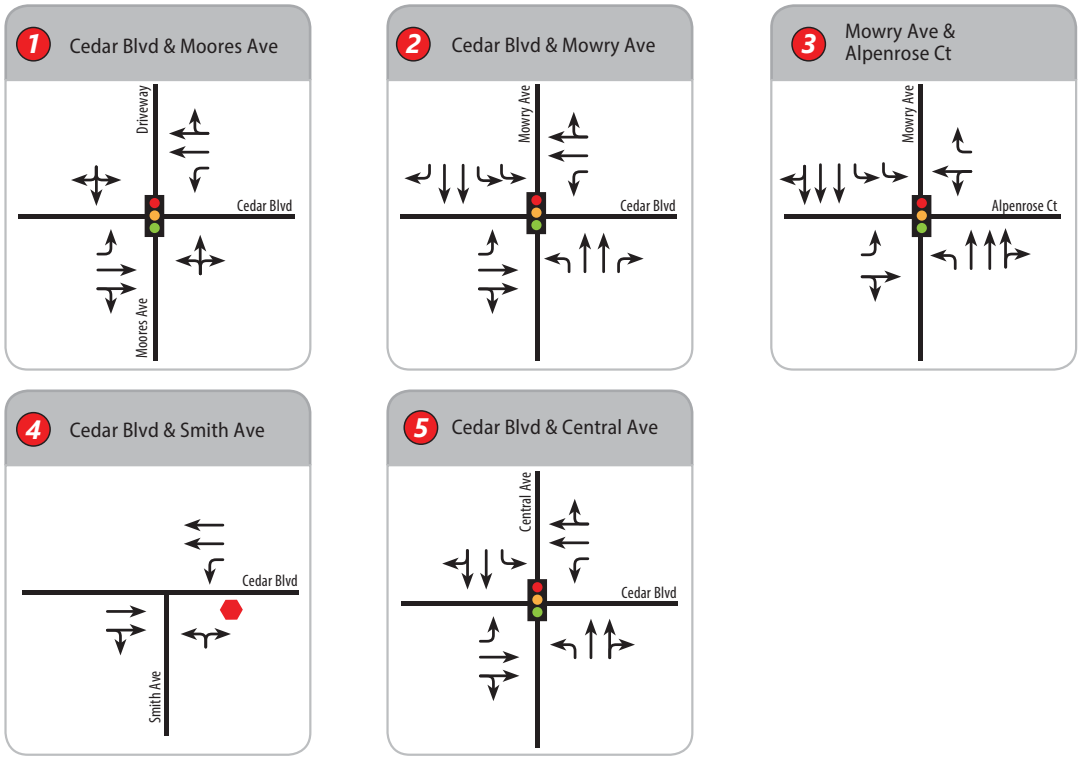
Notes:

[1]AM – morning peak hour, PM – evening peak hour

[2]Delay – Measured in seconds per vehicle. For signalized and all-way stop controlled intersections, the delay represents the average control delay for all turning movements. For one- and two-way stop controlled intersections, the delay represents the worse average control delay for a given approach.

[3]LOS – Level of Service

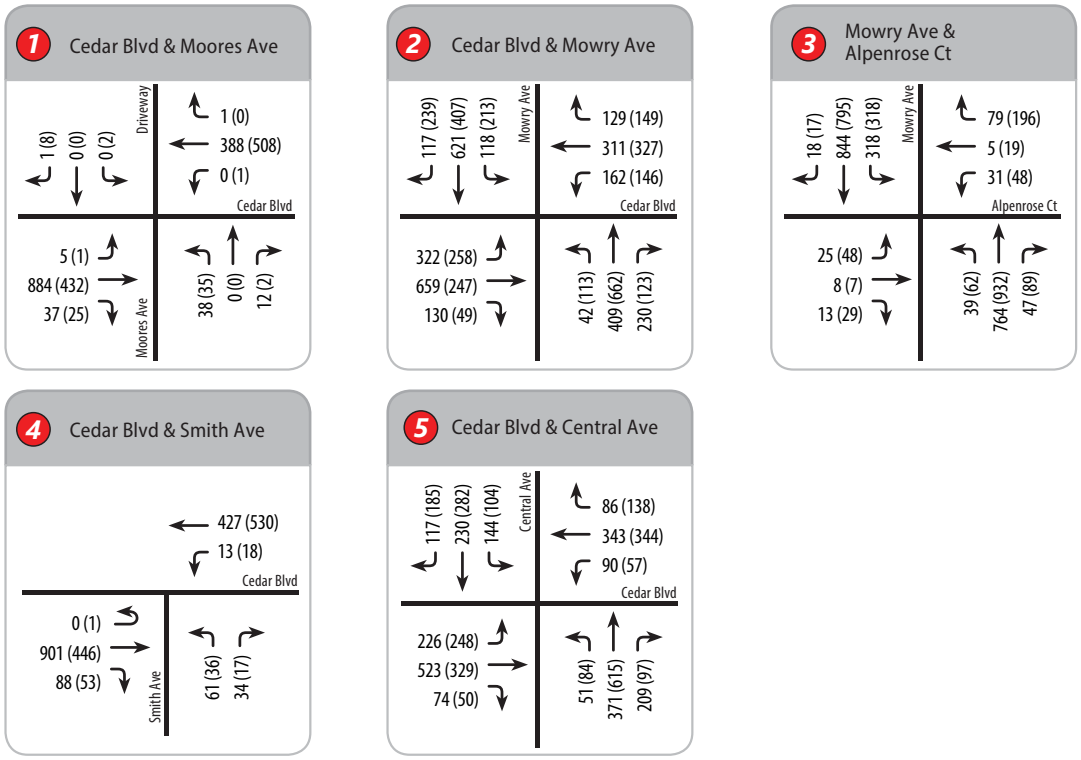
Figure 6: Existing Lane Geometry and Traffic Controls



LEGEND

- Project Site
- Study Intersection
- Traffic Signal
- Stop Sign

Figure 7: Existing Conditions Peak Hour Traffic Volumes



LEGEND

- Project Site
- X Study Intersection
- XX AM Peak Hour Volumes
- (XX) PM Peak Hour Volumes

4.0 EXISTING PLUS PROJECT CONDITIONS

This analysis scenario presents the impacts of the proposed residential development at the study intersections and surrounding roadway system. This scenario is similar to Existing Conditions but with the addition of traffic from the proposed project.

4.1 Project Description

The proposed project site is at the north quadrant of the Cedar Boulevard and Moores Avenue intersection in the City of Newark. The project proposes to replace an existing construction and landscaping retail use with 78 attached townhomes. A driveway at the north leg of the Cedar Boulevard and Moores Avenue intersection facilitates full project access.

4.2 Project Trip Generation

TJKM developed estimated project trip generation for the proposed project based on published trip generation rates from the Institute of Transportation Engineers' (ITE) Trip Generation Manual, 11th Edition (2021). The proposed trip generation includes the reduction of trips based on the existing land uses at the project site. The number of trips generated by the existing construction machinery rental and retail uses were determined based on existing conditions driveway counts conducted on Tuesday, September 20, 2022. TJKM used published trip rates for ITE Land Use Code 215 (Single-Family Attached Housing).

Table 5 shows the trip generation calculation for the proposed project. The proposed project is expected to generate 562 net new daily trips, including 31 (six inbound, 25 outbound) net new a.m. peak hour trips and 33 (24 inbound, nine outbound) net new p.m. peak hour trips.

Table 5: Project Trip Generation

Land Use	Size[1]	*Daily*		*AM Peak*					*PM Peak*				
		Rate	*Trips*	*Rate*	*In: Out*	*In*	*Out*	*Total*	*Rate*	*In: Out*	*In*	*Out*	*Total*
Proposed Facility													
Single-Family Attached Housing (215)[2]	78 DU	7.20	562	0.48	*31:69*	12	26	38	0.57	*57:43*	25	19	44
Existing Facility													
Construction Equipment Rental Store[3]	-	-	-	-	-	-6	-1	-7	-	-	-1	-10	-11
Total Trips			**562**			**6**	**25**	**31**			**24**	**9**	**33**

Source: ITE Trip Generation Manual, 11th Edition, 2021
Notes:
[1]DU – Dwelling Unit
[2]Single-Family Attached Housing (ITE Land Use Code 215) based on number of dwelling units.
[3]Existing land use trips based on observed driveway counts collected on Tuesday, September 20, 2022.

4.3 Project Trip Distribution and Assignment

Trip distribution is a process that determines in what proportion vehicles would be expected to travel between the project site and various destinations outside the project study area. Assignment determines the various routes that vehicles would take from the project site to each destination using the estimated trip distribution.

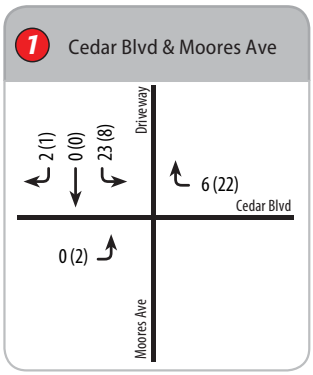
Trip distribution assumptions for the proposed project were developed based on the existing travel patterns and TJKM's knowledge of the study area.

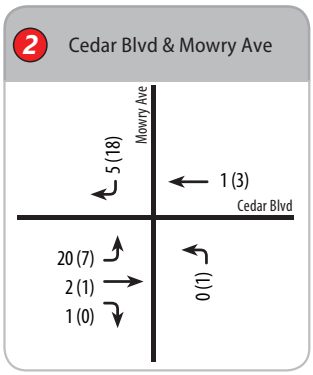
The distribution assumptions are as follows:

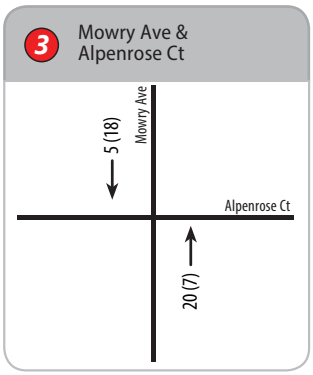
- 30 percent to/from I-880 south of Newark
- 30 percent to/from I-880 north of Newark
- 15 percent to/from Mowry Avenue east of Cedar Boulevard
- 10 percent to/from Cedar Boulevard south of Mowry Avenue
- 10 percent to/from Central Avenue west of Cedar Boulevard
- 5 percent to/from Mowry Avenue west of Cedar Boulevard

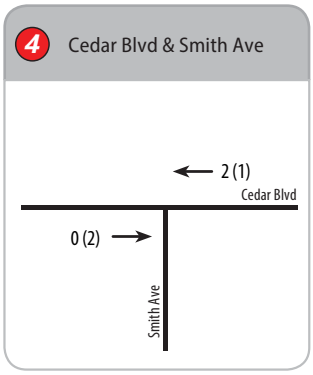
Figure 8 illustrates the trip distribution percentages and trip assignment project volumes developed for the proposed project. The assigned project trips were added to traffic volumes under "No Project" scenarios to generate "Plus Project" traffic volumes.

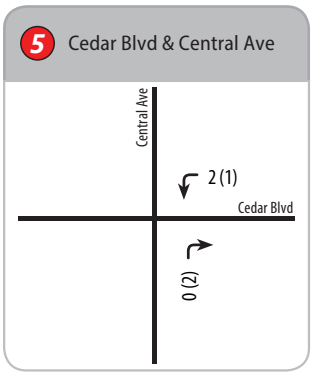
Figure 8: Trip Distribution & Assignment













LEGEND

- Project Site
- X Study Intersection
- XX(XX) Peak Hour Trips
- XX% Trip Distribution

4.4 Intersection Level of Service Analysis – Existing plus Project Conditions

Under Existing plus Project Conditions, lane geometries and traffic flow are the same as Existing Conditions, with the addition of project trips. **Figure 9** shows projected turning movement volumes at the study intersections for Existing plus Project Conditions.

Table 6 summarizes the intersection LOS analysis results for Existing plus Project Conditions. The results for Existing Conditions are included for comparison purposes, along with the projected increases in control delay. Intersections that operated at LOS E or F are shown in red.

Under this scenario, all of the study intersections are anticipated to continue to operate at an acceptable LOS D or better during both a.m. and p.m. peak hours.

Based on the City of Newark criteria, the project expects to have a **less than adverse** impact at the study intersections under Existing plus Project Conditions.

Appendix D contains detailed level of service calculation sheets for Existing plus Project Conditions.

Table 6: Intersection Level of Service Analysis – Existing plus Project Conditions

#	Study Intersections	Control	Method	Peak Hour[1]	Existing Conditions		Existing plus Project Conditions		Change in Delay[4]
					Average Delay[2]	LOS[3]	Average Delay[2]	LOS[3]	
1	Cedar Boulevard/Moores Avenue	Signal	HCM 2000	AM	3.5	A	4	A	0.5
				PM	4.6	A	4.9	A	0.3
2	Cedar Boulevard/Mowry Avenue	Signal	HCM 6th	AM	24.6	C	24.7	C	0.1
				PM	25.5	C	25.8	C	0.3
3	Mowry Avenue/Alpenrose Court	Signal	HCM 2000	AM	15.3	B	15.4	B	0.1
				PM	19.9	B	20.0	B	0.1
4	Cedar Boulevard/Smith Avenue	One-Way Stop	HCM 6th	AM	20.4	C	20.4	C	0.0
				PM	13.0	B	13	B	0.0
5	Cedar Boulevard/Central Avenue	Signal	HCM 6th	AM	23.3	C	23.3	C	0.0
				PM	24.8	C	24.8	C	0.0

Notes:

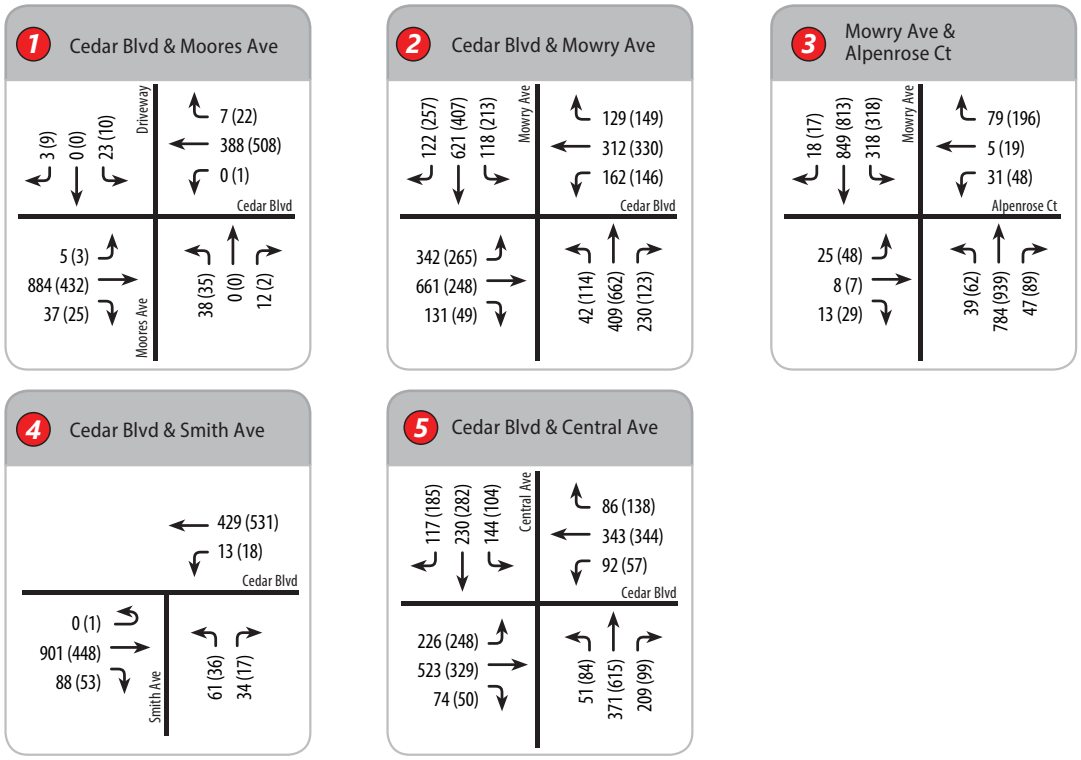
[1]AM – morning peak hour, PM – evening peak hour

[2]Delay – Measured in seconds per vehicle. For signalized and all-way stop controlled intersections, the delay represents the average control delay for all turning movements. For one- and two-way stop controlled intersections, the delay represents the worse average control delay for a given approach.

[3]LOS – Level of Service

[4]Change in Delay between Existing and Existing plus Project Conditions

Figure 9: Existing plus Project Conditions Peak Hour Traffic Volumes



LEGEND

- Project Site
- X Study Intersection
- XX AM Peak Hour Volumes
- (XX) PM Peak Hour Volumes

5.0 BACKGROUND CONDITIONS ANALYSIS

This section details expected traffic conditions at the study intersections under Cumulative Conditions.

5.1 Background Peak Hour Traffic Volumes and Lane Configurations

TJKM evaluated the Background operations of the study intersections for the highest one-hour volumes during weekday morning and evening peak periods. Background traffic conditions are the same as Existing Conditions with the addition of project-generated trips from three approved projects within the City of Newark and their associated roadway improvements. **Figure 10** illustrates the Background Conditions traffic volumes at the study intersections.

The approved projects and their land uses are below:

- Phase 1 Newpark Mall Place Costco (Retail),
- Phase 1 Newpark Mall Place (Residential), and
- 37660 Timber Street (Senior Housing).

The following roadway improvements were considered in association with the abovementioned projects:

- The addition of a second westbound right turn lane and allowing the movement to operate under overlap phase at the intersection of Mowry Avenue and Alpenrose Court (Intersection 3).

Peak hour factors of 1.00 were applied at all study intersections under Background Conditions.

5.2 Intersection Level of Service Analysis – Background Conditions

Table 7 summarizes the results of the LOS analysis at the study intersections for the Background Conditions scenario. Existing Conditions. Intersections that operated at LOS E or F are shown in red.

Under this scenario, three of the study intersections operate at an acceptable LOS D or better during both a.m. and p.m. peak hours. The intersection at Mowry Avenue and Alpenrose Court (Intersection 3) operates at unacceptable LOS F during the p.m. peak hour, and the intersection at Cedar Boulevard and Smith Avenue (Intersection 4) operates at unacceptable LOS E during the a.m. peak hour.

Appendix E contains the detailed level of service analysis worksheets for Background Conditions.

Table 7: Intersection Level of Service Analysis – Background Conditions

#	Study Intersections	Control	Method	Peak Hour[1]	Background Conditions	
					Average Delay[2]	LOS[3]
1	Cedar Boulevard/Moores Avenue	Signal	HCM 2000	AM	3.7	A
				PM	5.2	A
2	Cedar Boulevard/Mowry Avenue	Signal	HCM 6th	AM	31.0	C
				PM	48.7	D
3	Mowry Avenue/Alpenrose Court	Signal	HCM 2000	AM	26.5	C
				PM	100.8	F
4	Cedar Boulevard/Smith Avenue	One-Way Stop	HCM 6th	AM	35.8	E
				PM	23.8	C
5	Cedar Boulevard/Central Avenue	Signal	HCM 6th	AM	23.5	C
				PM	25.0	C

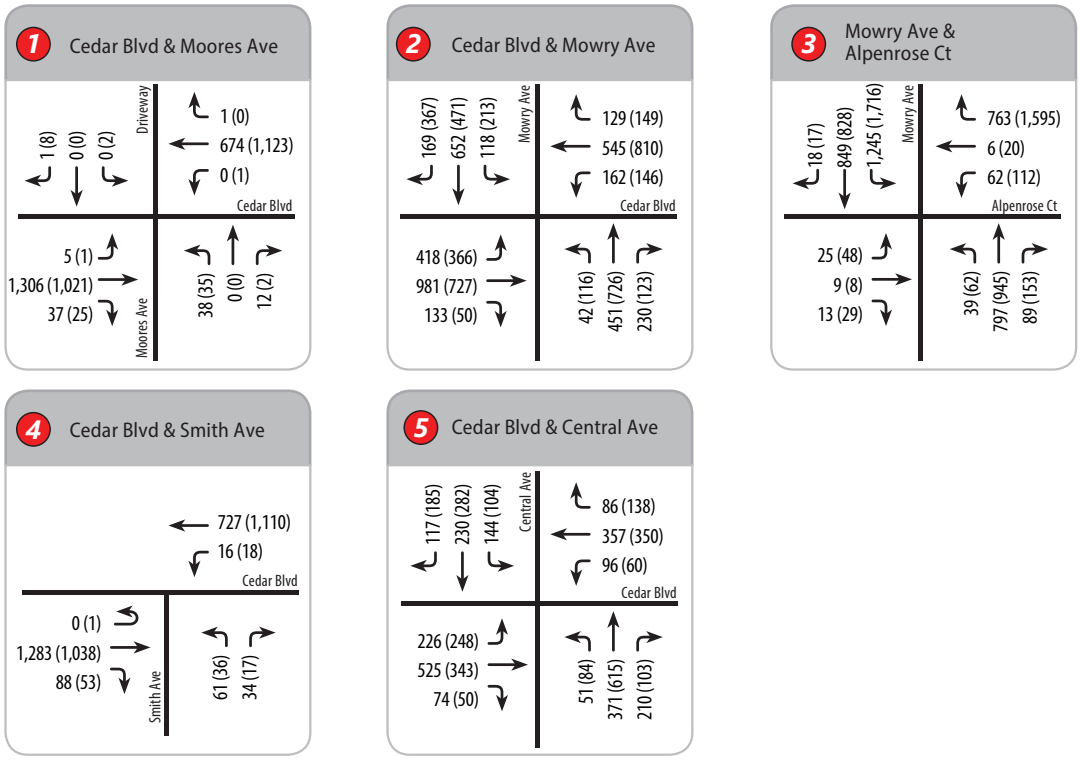
Notes:

[1]AM – morning peak hour, PM – evening peak hour

[2]Delay – Measured in seconds per vehicle. For signalized and all-way stop controlled intersections, the delay represents the average control delay for all turning movements. For one- and two-way stop controlled intersections, the delay represents the worse average control delay for a given approach.

[3]LOS – Level of Service

Figure 10: Background Conditions Peak Hour Traffic Volumes



LEGEND

- Project Site
- X Study Intersection
- XX AM Peak Hour Volumes
- (XX) PM Peak Hour Volumes

6.0 BACKGROUND PLUS PROJECT CONDITIONS

This analysis scenario presents the impacts of the proposed residential development at the study intersections and surrounding roadway system. This scenario is similar to Background Conditions but with the addition of traffic from the proposed project.

6.1 Intersection Level of Service Analysis – Background plus Project Conditions

Figure 11 shows projected turning movement volumes at the study intersections for Background plus Project Conditions.

Table 8 summarizes the intersection LOS analysis results for Background plus Project Conditions. The results for Background Conditions are included for comparison purposes, along with the projected increases in control delay. Intersections that operated at LOS E or F are shown in red.

Under this scenario, three of the study intersections will operate at an acceptable LOS D or better during both a.m. and p.m. peak hours. The intersection at Mowry Avenue and Alpenrose Court (Intersection 3) continues to operate at unacceptable LOS F during the p.m. peak hour, and the intersection of Cedar Boulevard and Smith Avenue (Intersection 4) continue to operate at unacceptable LOS E during the a.m. peak hour. These two intersections experience an increase in overall vehicular delay by 0.3 seconds or less with project traffic. The remaining intersections continue to operate at acceptable LOS D or better.

Based on the City of Newark criteria, the project expects to have a **less than adverse** impact at the study intersections, under Background plus Project Conditions.

Appendix F contains detailed level of service calculation sheets for Background plus Project Conditions.

Table 8: Intersection Level of Service Analysis – Background plus Project Conditions

#	Study Intersections	Control	Method	Peak Hour[1]	Background Conditions		Background plus Project Conditions		Change in Delay[4]
					Average Delay[2]	LOS[3]	Average Delay[2]	LOS[3]	
1	Cedar Boulevard/Moores Avenue	Signal	HCM 2000	AM	3.7	A	4.1	A	0.4
				PM	5.2	A	5.3	A	0.1
2	Cedar Boulevard/Mowry Avenue	Signal	HCM 6th	AM	31.0	C	31.7	C	0.7
				PM	48.7	D	51.8	D	3.1
3	Mowry Avenue/Alpenrose Court	Signal	HCM 2000	AM	26.5	C	26.8	C	0.3
				PM	100.8	F	101.0	F	0.2
4	Cedar Boulevard/Smith Avenue	One-Way Stop	HCM 6th	AM	35.8	E	35.8	E	0.0
				PM	23.8	C	23.8	C	0.0
5	Cedar Boulevard/Central Avenue	Signal	HCM 6th	AM	23.5	C	23.5	C	0.0
				PM	25.0	C	25.0	C	0.0

Notes:

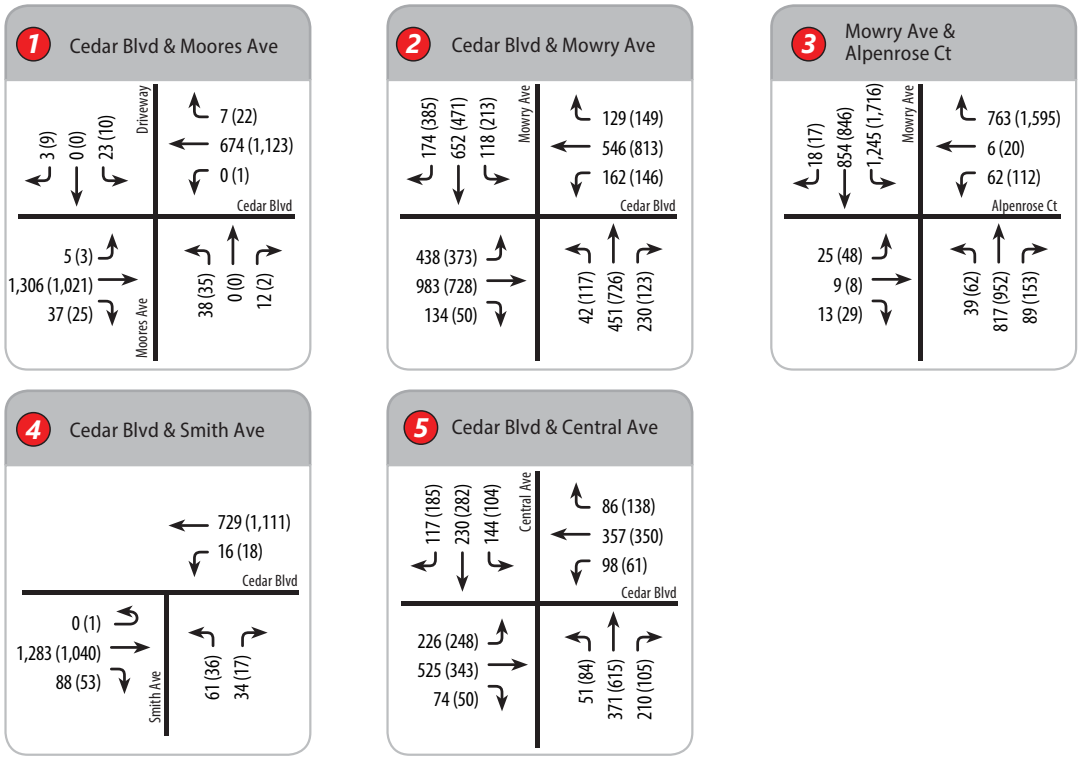
[1]AM – morning peak hour, PM – evening peak hour

[2]Delay – Measured in seconds per vehicle. For signalized and all-way stop controlled intersections, the delay represents the average control delay for all turning movements. For one- and two-way stop controlled intersections, the delay represents the worse average control delay for a given approach.

[3]LOS – Level of Service

[4]Change in Delay between Existing and Existing plus Project Conditions

Figure 11: Background plus Project Conditions Peak Hour Traffic Volumes



LEGEND

- Project Site
- X Study Intersection
- XX AM Peak Hour Volumes
- (XX) PM Peak Hour Volumes

7.0 CUMULATIVE CONDITIONS ANALYSIS

This section details expected traffic conditions at the study intersections under Cumulative Conditions. The Cumulative conditions reflect conditions in the year 2040.

7.1 Intersection Level of Service Analysis – Cumulative Conditions

TJKM developed the cumulative baseline traffic volumes based on growth rates from the Alameda County Transportation Commission's (ACTC) Countywide Travel Demand Model and the addition of project-generated trips from three approved projects within the City of Newark. **Figure 12** illustrates the Cumulative Conditions traffic volumes at the study intersections.

The approved projects and their land uses are below:

- Phase 1 Newpark Mall Place Costco (Retail),
- Phase 1 Newpark Mall Place (Residential), and
- 37660 Timber Street (Senior Housing).

The following roadway improvements were considered in association with the abovementioned projects:

- The addition of a second westbound right turn lane and allowing the movement to operate under overlap phase at the intersection of Mowry Avenue and Alpenrose Court (Intersection 3).

Peak hour factors of 1.00 were applied at all study intersections under Cumulative Conditions.

Table 9 summarizes the results of the LOS analysis at the study intersections for the Cumulative Conditions scenario. Intersections that operated at LOS E or F are shown in red.

Under this scenario, two of the study intersections operate at an acceptable LOS D or better during both a.m. and p.m. peak hours. The intersection at Cedar Boulevard and Mowry Avenue (Intersection 2) operates at unacceptable LOS E during both peak hours. The intersection at Mowry Avenue and Alpenrose Court (Intersection 3) operates at unacceptable LOS F during the p.m. peak hour, and the intersection at Cedar Boulevard and Smith Avenue (Intersection 4) operates at unacceptable LOS F during the a.m. peak hour.

Appendix G contains the detailed level of service analysis worksheets for Cumulative Conditions.

Table 9: Intersection Level of Service Analysis – Cumulative Conditions

#	Study Intersections	Control	Method	Peak Hour[1]	Cumulative Conditions	
					Average Delay[2]	LOS[3]
1	Cedar Boulevard/Moores Avenue	Signal	HCM 2000	AM	5.0	A
				PM	4.2	A
2	Cedar Boulevard/Mowry Avenue	Signal	HCM 6th	AM	76.3	E
				PM	68.4	E
3	Mowry Avenue/Alpenrose Court	Signal	HCM 2000	AM	28.6	C
				PM	131.7	F
4	Cedar Boulevard/Smith Avenue	One-Way Stop	HCM 6th	AM	176.5	F
				PM	26.6	D
5	Cedar Boulevard/Central Avenue	Signal	HCM 6th	AM	34.5	C
				PM	31.0	C

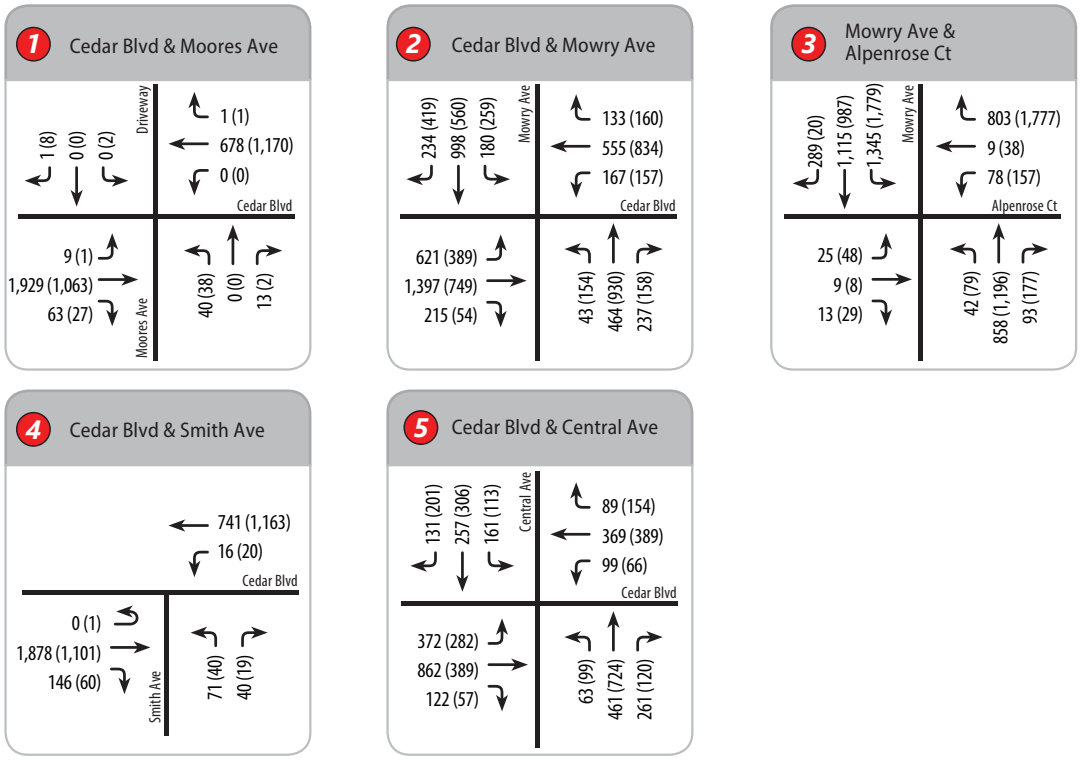
Notes:

[1]AM – morning peak hour, PM – evening peak hour

[2]Delay – Measured in seconds per vehicle. For signalized and all-way stop controlled intersections, the delay represents the average control delay for all turning movements. For one- and two-way stop controlled intersections, the delay represents the worse average control delay for a given approach.

[3]LOS – Level of Service

Figure 12: Cumulative Conditions Peak Hour Traffic Volumes



LEGEND

- Project Site
- X Study Intersection
- XX AM Peak Hour Volumes
- (XX) PM Peak Hour Volumes

8.0 CUMULATIVE PLUS PROJECT CONDITIONS

This analysis scenario presents the impacts of the proposed residential development at the study intersections and surrounding roadway system. This scenario is similar to Cumulative Conditions but with the addition of traffic from the proposed project.

8.1 Intersection Level of Service Analysis – Cumulative plus Project Conditions

Figure 13 shows projected turning movement volumes at the study intersections for Cumulative plus Project Conditions.

Table 10 summarizes the intersection LOS analysis results for Cumulative plus Project Conditions. The results for Cumulative Conditions are included for comparison purposes, along with the projected increases in control delay. Intersections that operated at LOS E or F are shown in red.

Under this scenario, two of the study intersections will operate at an acceptable LOS D or better during both peak hours. The intersection at Cedar Boulevard and Mowry Avenue (Intersection 2) continues to operate at unacceptable LOS E during both peak hours. The intersection at Mowry Avenue and Alpenrose Court (Intersection 3) continues to operate at unacceptable LOS F during the p.m. peak hour, and the intersection at Cedar Boulevard and Smith Avenue (Intersection 4) continues to operate at unacceptable LOS F during the a.m. peak hour. These three intersections experience an increase in overall vehicular delay by 3.8 seconds or less with project traffic.

Based on the City of Newark criteria, the project expects to have a **less than adverse** impact at the study intersections, under Cumulative plus Project Conditions.

Appendix H contains detailed level of service calculation sheets for Cumulative plus Project Conditions.

Table 10: Intersection Level of Service Analysis – Cumulative plus Project Conditions

#	Study Intersections	Control	Method	Peak Hour[1]	Cumulative Conditions		Cumulative plus Project Conditions		Change in Delay[4]
					Average Delay[2]	LOS[3]	Average Delay[2]	LOS[3]	
1	Cedar Boulevard/Moores Avenue	Signal	HCM 2000	AM	5.0	A	5.3	A	0.3
				PM	4.2	A	4.4	A	0.2
2	Cedar Boulevard/Mowry Avenue	Signal	HCM 6th	AM	76.3	E	78.3	E	2.0
				PM	68.4	E	72.2	E	3.8
3	Mowry Avenue/Alpenrose Court	Signal	HCM 2000	AM	28.6	C	29	C	0.4
				PM	131.7	F	131.5	F	-0.2
4	Cedar Boulevard/Smith Avenue	One-Way Stop	HCM 6th	AM	176.5	F	176.5	F	0.0
				PM	26.6	D	26.7	D	0.1
5	Cedar Boulevard/Central Avenue	Signal	HCM 6th	AM	34.5	C	34.5	C	0.0
				PM	31.0	C	31.1	C	0.1

Notes:

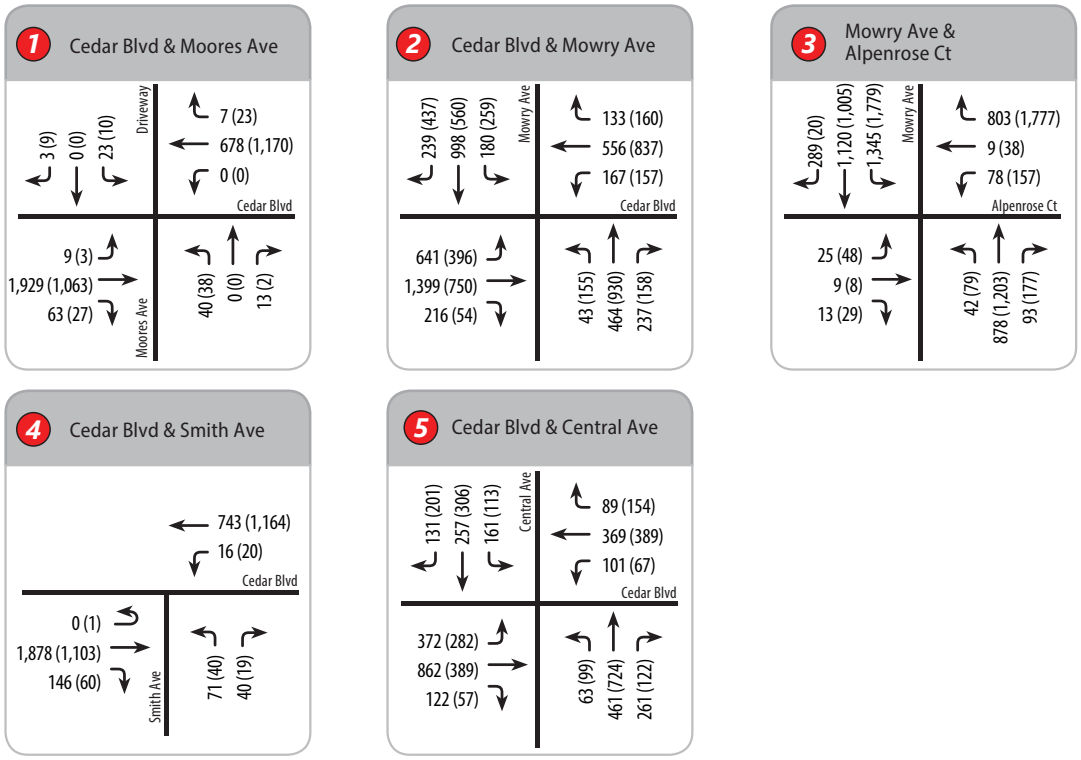
[1]AM – morning peak hour, PM – evening peak hour

[2]Delay – Whole intersection weighted average control delay expressed in seconds per vehicle for signalized intersections.

[3]LOS – Level of Service

[4]Change in Delay between Existing and Existing plus Project Conditions

Figure 13: Cumulative plus Project Conditions Peak Hour Traffic Volumes



LEGEND

- Project Site
- Study Intersection
- XX AM Peak Hour Volumes
- (XX) PM Peak Hour Volumes

9.0 VEHICLE MILES TRAVELED

This section provides an analysis of potential project impacts due to Vehicle-Miles Traveled (VMT) attributable to the project.

Compliance with Senate Bill (SB) 743, enacted statewide on July 1, 2020, includes replacement of level of service (LOS) with VMT for purposes of assessing traffic impacts for a proposed development. The guidance related to the change in methodology is discussed in Section 15064.3 of the California Environmental Quality Act (CEQA) guidelines. Lead agencies have discretion to choose the most appropriate methodology to evaluate a project's VMT, including whether to express the change in absolute terms, per capita, per household, or any other measure.

9.1 Vehicle Miles Traveled Analysis Methodology

Traffic impacts related to a proposed project are to be evaluated for both compliance with applicable regulatory documents and environmental significance as defined in the CEQA guidelines. The Governor's Office of Planning and Research's (OPR) *Technical Advisory* (December 2018) provides guidance to analysts and local jurisdictions for implementing VMT as a metric for determining the transportation impact for land use projects. The OPR guidelines state that for analysis purposes, "VMT" refers to automobile VMT, specifically passenger vehicles and light trucks. Heavy truck traffic is typically excluded.

As of October 2022, the City of Newark has not adopted VMT procedures standards, so the OPR Guidelines were used. Under OPR guidelines, a residential project would have a significant impact on VMT if it would generate residential VMT per capita higher than 85 percent of the City of Newark's average.

9.2 Vehicle Miles Traveled Analysis Screening

The OPR guidelines include a screening process that describes five criteria in which a project would be exempted from the VMT analysis requirement:

- projects exempt from CEQA analysis,
- small projects,
- local serving projects,
- projects in transit priority areas, and
- projects in low VMT areas.

It should be noted that even if a project satisfies one or more of the screening criteria, lead agencies may still require a VMT analysis if there is evidence that the project has characteristics that might lead to a significant amount of VMT.

The project does not satisfy the requirements for screening criteria 1-5.

9.3 VMT Forecasting and Analysis Results

TJKM conducted VMT analysis for the proposed residential development at 38600 Cedar Boulevard. The project site is located south of Interstate 880 and north of Cedar Boulevard. The project consists of 80 townhomes on a site previously occupied by commercial uses.

OPR guidance on VMT analysis for residential projects require a base year condition model run along with baseline plus project model run to extract VMT data for the Travel Analysis Zone (TAZ) that the project is located in. The project is located in TAZ #934 in the Alameda County Transportation Commission (ACTC) model; land uses stemming from this project was added to the land use input file and the ACTC model was ran to generate VMT metrics for this project.

Currently, TAZ #934 contains 279 households and 843 population. The 2020 Census average ratio of population to household for the City of Newark was used to calculate the total population for the project (3.34 people per household). Using this ratio, 80 housing units from this project will add 267 persons to the TAZ. **Table 11** shows the land use changes for the base year plus project run.

Table 11: Land Use Changes for Base Year

TAZ	Households	Population	Single Family Dwelling Units	Multi Family Dwelling Units
#934	+80	+270	+0	+80

The land uses stemming from this project was added to the land use input file and the ACTC model was run to generate VMT metrics for this project. **Table 12** summarizes the ACTC model results.

Table 12: Home Based VMT Per Capita Comparison (South Alameda County Average)

TAZ	Base Year Average Daily VMT per Resident (per ACTC Model)	City of Newark Average (per ACTC Model)	15% Below Regional Average (per ACTC Model)	Base Year Plus Project Average Daily VMT per Resident (per ACTC Model run)
#934	23.24	22.60*	19.21	18.43

The existing base year per capita VMT for TAZ #934 is 23.24. Coding the project into the TAZ results in a VMT per capita of 18.43, a decrease of 4.81. For residential projects, OPR guidance establishes a significance threshold of 15 percent below the City of Newark's average VMT per capita. The City of Newark has an average VMT per capita of 22.60, so its significance threshold is 19.21. Since 18.43 is lower than the 85% threshold of 19.21 for the City of Newark, the project would produce an **insignificant** impact on VMT.

Appendix I contains the ACTC Model outputs.

10.0 ADDITIONAL ANALYSIS

The following sections provide additional analyses of other transportation issues associated with the project site, including:

- Site access and on-site circulation;
- Parking analysis;
- Queueing and Driveway analysis;
- Pedestrian, bicycle and transit access and impacts;
- Signal Warrant Assessment for the Intersection of Cedar Boulevard and Smith Avenue.

The majority of the analyses in these sections are based on professional judgment in accordance with the standards and methods employed by traffic engineers. Although operational issues are not considered CEQA impacts, they do describe traffic conditions that are relevant to describing the project environment.

10.1 Site Access and On-Site Circulation

This section analyzes site access and internal circulation for vehicles, pedestrians, and bicycles, based on the site plan presented on **Figure 2** (dated April 2023). TJKM reviewed internal and external access for the project site for vehicles, pedestrians, and bicycles and on-site vehicle circulation.

Site access is provided via an existing, full access driveway on Cedar Boulevard, at the north leg of the Cedar Boulevard and Moores Avenue intersection. Pedestrian access to the project site is provided via existing sidewalks on both sides of Cedar Boulevard and Moores Avenue. Bicycle access is facilitated via existing Class II bike lanes along Cedar Boulevard. Two bus stops exist at the intersection of Cedar Boulevard and Moores Avenue, providing direct transit access to the project site.

The project proposes to provide pedestrian pathways at the northern and southern project frontages, along with internal sidewalks, which connect the residences to the pathways and to sidewalks on Cedar Boulevard. The project proposes internal roadways ranging between 24 and 26 feet wide, which will facilitate two-way internal traffic. Emergency vehicle access is provided via an emergency access driveway on Cedar Boulevard, at the southeast quadrant of the project site. Garbage trucks will access the residences via the driveway at Cedar Boulevard and Moores Avenue and the proposed internal roadways.

Overall, the vehicle, pedestrian, and emergency access, as well as on-site circulation is **adequate**.

10.2 Parking Analysis

This section discusses vehicle parking for the proposed project and includes an assessment of whether the proposed parking supply is adequate based on the proposed project size.

Based on the project site plan dated April 2023 (**Figure 2**), 152 garage, 26 head-in, eight head-in compact, and four parallel parking spaces are provided for the residential development. The garage parking spaces are accessible via driveways at each residence, and the remaining parking spaces are along the internal roadways.

Per the City Municipal Code, Section 17.23.040 ("Required Parking Spaces"), the required number of on-site parking stalls is:

Unit Type	Spaces per Unit
Studio	1.5
One Bedroom	1.5
Two-or-More Bedrooms	2.0
Guest Parking	0.5

Based on Table 17.23.040 for "Multi-Unit Building"

The City Municipal Code also states the following:

- Projects located outside a radius of 100 feet of RS and RL districts, or separated by an arterial street from single-family homes, or with driveway aprons, or located within a Specific Plan shall require 1.25 spaces per unit.
- Old Town Specific Plan Area: Minimum of 1.25 per unit; maximum of two per unit. No additional guest parking required.
- For projects with ten or fewer dwelling units, one space per unit must be within a garage.
- For projects with more than ten dwelling units, one space per unit must be covered.
- Guest parking shall be clearly marked as reserved for guests and available with unrestricted access.

Based on a conservative interpretation of the Code, each residential unit would require 2.0 spaces for residents and 0.5 spaces for guests. As such, 152 residential parking spaces and 38 guest parking spaces are required (totaling 190 total spaces on site).

The proposed parking supply of 152 garage, 26 head-in, eight head-in compact, and four parallel spaces is expected to be **sufficient**.

10.3 Queuing and Driveway Analysis

Queuing Analysis at Study Intersections

TJKM conducted a vehicle queuing analysis for all exclusive left turn or right-turn pockets at the study intersections where project traffic is added under Existing plus Project Conditions.

The 95th percentile queues were analyzed using *Synchro,* version 11, software. Detailed calculations are included in the LOS appendices corresponding to each analysis scenario.

Table 13 summarizes the 95th percentile queue lengths at the study intersections under Existing and Existing plus Project Conditions scenarios. As illustrated, the proposed project increases the queue length by a maximum of 21 feet, which is approximately 0.84 car-lengths.

Table 13: 95th Percentile Queues at Turn Pockets Affected by Project Traffic

#	Intersection	Lane Group	Storage Length per Lane	Existing Conditions		Existing plus Project Conditions		Change	
				AM	PM	AM	PM	AM	PM
1	Cedar Boulevard/Moores Avenue	EBL	100	10	4	10	7	0	3
		WBL	150	0	4	0	4	0	0
2	Cedar Boulevard/Mowry Avenue	EBL	200	**320**	**298**	**341**	**305**	21	7
		WBL	235	190	189	194	191	4	2
		NBL	125	70	**156**	71	**159**	1	3
		NBR	130	115	55	117	55	2	0
		SBL	195	77	131	79	133	2	2
3	Mowry Avenue/Alpenrose Court	NBL	170	44	71	44	71	0	0
		SBL	260	101	121	101	122	0	1
5	Cedar Boulevard/Central Avenue	EBL	125	**244**	**266**	**244**	**266**	0	0
		WBL	120	**120**	87	**122**	88	2	1
		NBL	180	80	116	80	116	0	0
		SBL	130	**172**	**136**	**172**	**136**	0	0

Notes: Storage length and 95th percentile queue is expressed in feet per lane, **Bold** indicates overflow

Queuing Analysis at Project Driveway

TJKM conducted a vehicle queuing analysis at the project driveway at the intersection of Cedar Boulevard and Moores Avenue. The 95th percentile queues were analyzed using *Synchro* version 11 software for the project driveway.

Table 14 summarizes the 95th percentile queue lengths at the project driveway under the plus Project scenarios. Under all "plus Project" scenarios, the 95th percentile queues at the outbound approach of project driveways are expected to be minimal (less than one car length or 25 feet).

Table 14: 95th Percentile Queues at Project Driveways

Intersection	Control	Existing plus Project Conditions		Background plus Project Conditions		Cumulative plus Project Conditions	
		AM	PM	AM	PM	AM	PM
Cedar Boulevard /Moores Avenue	Signalized	<25'	<25'	<25'	<25'	<25'	<25'

Notes:

[1]Reported values of 95th percentile queues are for the outbound movements at the project driveways

10.5 Pedestrian, Bicycle, and Transit Impacts

10.5.1 Pedestrian Impacts

An impact to pedestrians occurs if the proposed project disrupts existing pedestrian's facilities; or creates inconsistencies with planned pedestrian facilities or adopted pedestrian system plans, guidelines, policies, or standards. The project may produce a moderate amount of pedestrian trips, which would be accommodated by existing adequate pedestrian facilities. The project is not expected provide any disruptions or inconsistencies with pedestrian facilities or plans. Therefore, the impact to pedestrian facilities is **less than significant**.

Of note, with the construction of the site entrance, the Moores Avenue / Cedar Boulevard intersection (Intersection 1) will be converted from three-legged to four-legged. With this modification, it is recommended that a crosswalk (including pedestrian signal heads and push buttons) be installed across the new site entrance (north leg) and across the west leg of the intersection. Furthermore, it is recommended that a tactile surface for the existing curb ramp be provided at the northeast corner of the intersection. As illustrated in **Figure 2**, these recommendations are being plans as part of the development.

10.5.2 Bicycle Impacts

An impact to bicyclists occurs if the proposed project disrupts existing bicycle facilities; or creates inconsistencies with planned bicycle facilities or adopted bicycle system plans, guidelines, policies, or standards. The proposed project will have adequate bicycle access to the project site from the existing bike facilities and does not propose any roadway changes along the project frontage. Therefore, the impact to bicycle facilities is **less than significant**.

10.5.3 Transit Impacts

A proposed project is considered to have a significant impact on transit if it conflicts with existing or planned transit facilities, or is expected to generate additional transit trips and does not provide adequate facilities for pedestrians and bicyclists to access transit routes and stops.

Pedestrians and bicyclists can access the closest transit stops, shown in **Figure 3**, via a continuous path of sidewalks and adequate bicycle facilities. Additional trips generated by the proposed project could be accommodated by the existing bus stops along Cedar Boulevard along the project frontage.

The project does not propose changes to transit facilities in the project study area. Therefore, impacts to transit service are expected to be **less than significant**.

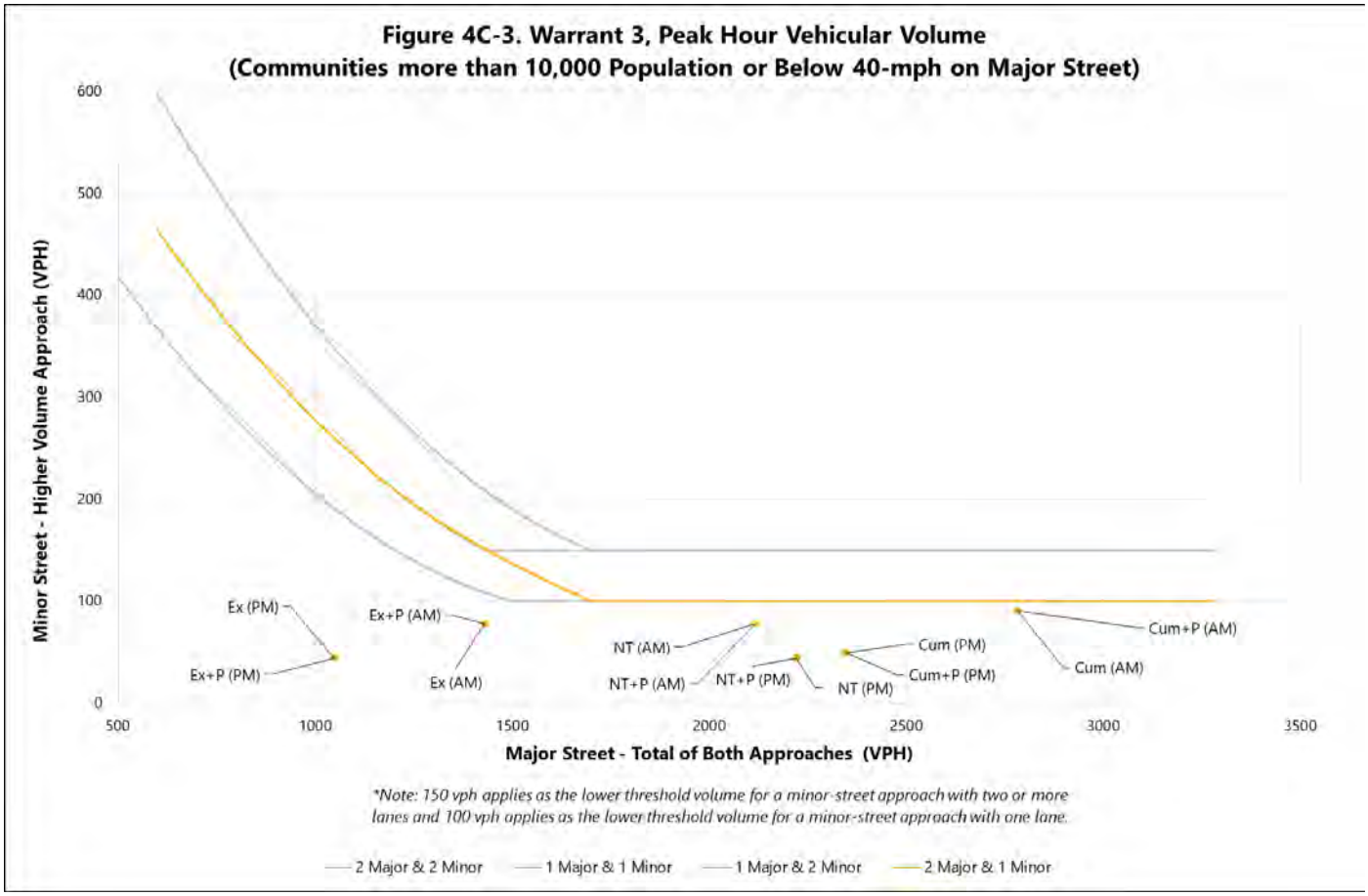
10.6 Signal Warrant Assessment for the Intersection of Cedar Boulevard and Smith Avenue.

Under Background and Cumulative conditions, the intersection of Cedar Boulevard and Smith Avenue (Intersection 4), which is the only unsignalized study intersection, will begin to operate at unacceptable levels of service during the a.m. peak hour. These conditions occur regardless of the proposed development. In order to preliminarily assess if a traffic signal would be warranted at this location, Warrant 3 (referred to as the "Peak Hour" warrant) from the California Manual on Uniform Traffic Control Devices (CA-MUTCD) was utilized to assess all "Plus Project" scenarios.

With respect to Warrant 3, the need for a traffic control signal shall be considered when the plotted points representing the vehicles per hour on the major-street (both approaches) and the corresponding vehicles per hour on the higher-volume minor-street approach (one direction only) for one hour of an average day falls above the applicable figure shown in the CA-MUTCD (either Figure 4C-3 or 4C-4) for the combination of approach lanes.

For the purpose of assessment, the geometry was assumed to be categorized as "Two or More Lanes on the Major Street and One Lane on the Minor Street;" Figure 4C-3 was used given that the speed limit of Cedar Boulevard is 35 mph in the project vicinity. Additionally, it should be noted that the CA-MUTCD does allow for a reduction in side-street right turn volume depending on configuration and engineering judgment. A conservative 50 percent right turn reduction was assumed for the purposes of this analysis. The reduction was based off the Right Turn on Red estimation from *Synchro*, which indicated that approximately 22 out of 40 (55 percent) and 15 out of 19 (79 percent) right turns were able to find gaps in mainline traffic along Cedar Boulevard and make a right turn during the a.m. and p.m. peak hours, respectively, under the Cumulative Plus Project scenario. The results for the "plus Project" scenarios are illustrated in **Figure 14**. Based on the results, a signal is not warranted at Intersection 4.

Figure 14: CA-MUTCD Warrant 3 Assessment for Intersection 4



Appendix A – Level of Service Methodology

APPENDIX A

LEVEL OF SERVICE

The description and procedures for calculating capacity and level of service are found in Transportation Research Board, *Highway Capacity Manual 6*. *Highway Capacity Manual 6* represents the latest research on capacity and quality of service for transportation facilities.

Quality of service requires quantitative measures to characterize operational conditions within a traffic stream. Level of service is a quality measure describing operational conditions within a traffic stream, generally in terms of such service measures as speed and travel time, freedom to maneuver, traffic interruptions, and comfort and convenience.

Six levels of service are defined for each type of facility that has analysis procedures available. Letters designate each level, from A to F, with level-of-service A representing the best operating conditions and level-of-service F the worst. Each level of service represents a range of operating conditions and the driver's perception of these conditions. Safety is not included in the measures that establish service levels.

A general description of service levels for various types of facilities is shown in Table A-I.

Table A-I

Level of Service Description

Facility Type	**Uninterrupted Flow**	**Interrupted Flow**
	Freeways Multi-lane Highways Two-lane Highways Urban Streets	Signalized Intersections Unsignalized Intersections Two-way Stop Control All-way Stop Control
LOS		
A	Free-flow	Very low delay.
B	Stable flow. Presence of other users noticeable.	Low delay.
C	Stable flow. Comfort and convenience starts to decline.	Acceptable delay.
D	High density stable flow.	Tolerable delay.
E	Unstable flow.	Limit of acceptable delay.
F	Forced or breakdown flow.	Unacceptable delay

Source: *Highway Capacity Manual 6*

Urban Streets

The term “urban streets” refers to urban arterials and collectors, including those in downtown areas.

Arterial streets are roads that primarily serve longer through trips. However, providing access to abutting commercial and residential land uses is also an important function of arterials.

Collector streets provide both land access and traffic circulation within residential, commercial and industrial areas. Their access function is more important than that of arterials, and unlike arterials their operation is not always dominated by traffic signals.

Downtown streets are signalized facilities that often resemble arterials. They not only move through traffic but also provide access to local businesses for passenger cars, transit buses, and trucks. Pedestrian conflicts and lane obstructions created by stopping or standing buses, trucks and parking vehicles that cause turbulence in the traffic flow are typical of downtown streets.

The speed of vehicles on urban streets is influenced by three main factors, street environment, interaction among vehicles and traffic control. As a result, these factors also affect quality of service.

The street environment includes the geometric characteristics of the facility, the character of roadside activity and adjacent land uses. Thus, the environment reflects the number and width of lanes, type of median, driveway density, spacing between signalized intersections, existence of parking, level of pedestrian activity and speed limit.

The interaction among vehicles is determined by traffic density, the proportion of trucks and buses, and turning movements. This interaction affects the operation of vehicles at intersections and, to a lesser extent, between signals.

Traffic control (including signals and signs) forces a portion of all vehicles to slow or stop. The delays and speed changes caused by traffic control devices reduce vehicle speeds, however, such controls are needed to establish right-of-way.

The average travel speed for through vehicles along an urban street is the determinant of the operating level of service. The travel speed along a segment, section or entire length of an urban street is dependent on the running speed between signalized intersections and the amount of control delay incurred at signalized intersections.

Level-of-service A describes primarily free-flow operations. Vehicles are completely unimpeded in their ability to maneuver within the traffic stream. Control delay at signalized intersections is minimal.

Level-of-service B describes reasonably unimpeded operations. The ability to maneuver within the traffic stream is only slightly restricted, and control delays at signalized intersections are not significant.

Level-of-service C describes stable operations, however, ability to maneuver and change lanes in midblock location may be more restricted than at level-of-service B. Longer queues, adverse signal coordination, or both may contribute to lower travel speeds.

Level-of-service D borders on a range in which in which small increases in flow may cause substantial increases in delay and decreases in travel speed. Level-of-service D may be due to adverse signal progression, inappropriate signal timing, high volumes, or a combination of these factors.

Level-of-service E is characterized by significant delays and lower travel speeds. Such operations are caused by a combination of adverse progression, high signal density, high volumes, extensive delays at critical intersections, and inappropriate signal timing.

Level-of-service F is characterized by urban street flow at extremely low speeds. Intersection congestion is likely at critical signalized locations, with high delays, high volumes, and extensive queuing.

The methodology to determine level of service stratifies urban streets into four classifications. The classifications are complex, and are related to functional and design categories. Table A-II describes the functional and design categories, while Table A-III relates these to the urban street classification.

Once classified, the urban street is divided into segments for analysis. An urban street segment is a one-way section of street encompassing a series of blocks or links terminating at a signalized intersection. Adjacent segments of urban streets may be combined to form larger street sections, provided that the segments have similar demand flows and characteristics.

Levels of service are related to the average travel speed of vehicles along the urban street segment or section.

Travel times for existing conditions are obtained by field measurements. The maximum-car technique is used. The vehicle is driven at the posted speed limit unless impeded by actual traffic conditions. In the maximum-car technique, a safe level of vehicular operation is maintained by observing proper following distances and by changing speeds at reasonable rates of acceleration and deceleration. The maximum-car technique provides the best base for measuring traffic performance.

An observer records the travel time and locations and duration of delay. The beginning and ending points are the centers of intersections. Delays include times waiting in queues at signalized intersections. The travel speed is determined by dividing the length of the segment by the travel time. Once the travel speed on the arterial is determined, the level of service is found by comparing the speed to the criteria in Table A-IV. Level-of-service criteria vary for the different classifications of urban street, reflecting differences in driver expectations.

description of levels of service for signalized intersections can be found in Table A-V.

Table A-V

Description of Level of Service for Signalized Intersections

Level of Service	Description
A	Very low control delay, up to 10 seconds per vehicle. Progression is extremely favorable, and most vehicles arrive during the green phase. Many vehicles do not stop at all. Short cycle lengths may tend to contribute to low delay values.
B	Control delay greater than 10 and up to 20 seconds per vehicle. There is good progression or short cycle lengths or both. More vehicles stop causing higher levels of delay.
C	Control delay greater than 20 and up to 35 seconds per vehicle. Higher delays are caused by fair progression or longer cycle lengths or both. Individual cycle failures may begin to appear. Cycle failure occurs when a given green phase doe not serve queued vehicles, and overflow occurs. The number of vehicles stopping is significant, though many still pass through the intersection without stopping.
D	Control delay greater than 35 and up to 55 seconds per vehicle. The influence of congestions becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high volumes. Many vehicles stop, the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.
E	Control delay greater than 55 and up to 80 seconds per vehicle. The limit of acceptable delay. High delays usually indicate poor progression, long cycle lengths, and high volumes. Individual cycle failures are frequent.
F	Control delay in excess of 80 seconds per vehicle. Unacceptable to most drivers. Oversaturation, arrival flow rates exceed the capacity of the intersection. Many individual cycle failures. Poor progression and long cycle lengths may also be contributing factors to higher delay.

Source: *Highway Capacity Manual 6*

The use of control delay, which may also be referred to as signal delay, was introduced in the 1997 update to the *Highway Capacity Manual*, and represents a departure from previous updates. In the third edition, published in 1985 and the 1994 update to the third edition, delay only included stopped delay. Thus, the level of service criteria listed in Table A-V differs from earlier criteria.

Unsignalized Intersections

The current procedures on unsignalized intersections were first introduced in the 1997 update to the *Highway Capacity Manual* and represent a revision of the methodology published in the 1994 update to the 1985 *Highway Capacity Manual*. The revised procedures use control delay as a measure of effectiveness to determine level of service. Delay is a measure of driver discomfort, frustration, fuel consumption, and increased travel time. The delay experienced by a motorist is made up of a number of factors that relate to control, traffic and incidents. Total delay is the difference between the travel time actually experienced and the reference travel time that would result during base conditions, *i. e.*, in the absence of traffic control, geometric delay, any incidents, and any other vehicles. Control delay is the increased time of travel for a vehicle approaching and passing through an unsignalized intersection, compared with a free-flow vehicle if it were not required to slow or stop at the intersection.

Two-Way Stop Controlled Intersections

Two-way stop controlled intersections in which stop signs are used to assign the right-of-way, are the most prevalent type of intersection in the United States. At two-way stop-controlled intersections the stop-controlled approaches are referred as the minor street approaches and can be either public streets or private driveways. The approaches that are not controlled by stop signs are referred to as the major street approaches.

The capacity of movements subject to delay are determined using the "critical gap" method of capacity analysis. Expected average control delay based on movement volume and movement capacity is calculated. A level of service designation is given to the expected control delay for each minor movement. Level of service is not defined for the intersection as a whole. Control delay is the increased time of travel for a vehicle approaching and passing through a stop-controlled intersection, compared with a free-flow vehicle if it were not required to slow or stop at the intersection. A description of levels of service for two-way stop-controlled intersections is found in Table A-VI.

Table A-VI

Description of Level of Service for Two-Way Stop Controlled Intersections

Level of Service	Description
A	Very low control delay less than 10 seconds per vehicle for each movement subject to delay.
B	Low control delay greater than 10 and up to 15 seconds per vehicle for each movement subject to delay.
C	Acceptable control delay greater than 15 and up to 25 seconds per vehicle for each movement subject to delay.
D	Tolerable control delay greater than 25 and up to 35 seconds per vehicle for each movement subject to delay.
E	Limit of tolerable control delay greater than 35 and up to 50 seconds per vehicle for each movement subject to delay.
F	Unacceptable control delay in excess of 50 seconds per vehicle for each movement subject to delay.

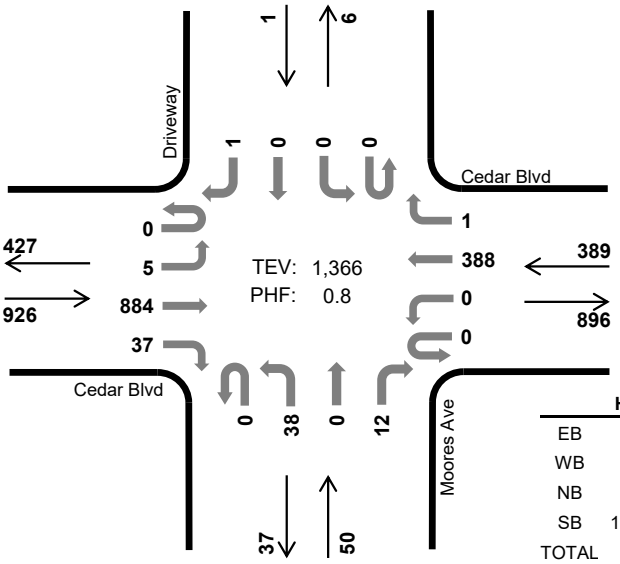
Source: *Highway Capacity Manual* 6

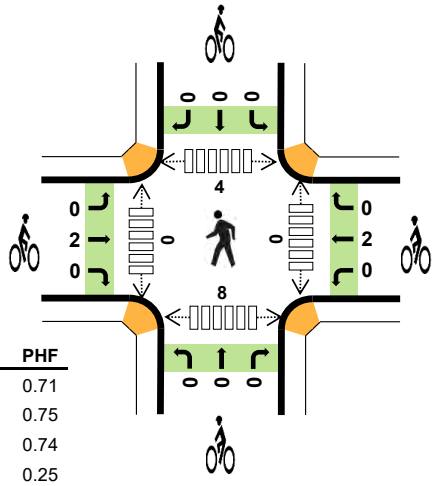
Appendix B – Vehicle, Bicycle, and Pedestrian Turning Movement Counts

Moores Ave
Cedar Blvd

Date: 09/20/2022
Count Period: 7:00 AM to 9:00 AM
Peak Hour: 7:45 AM to 8:45 AM

Peak Hour





	HV %:	PHF
EB	1.2%	0.71
WB	2.1%	0.75
NB	2.0%	0.74
SB	100.0%	0.25
TOTAL	1.5%	0.80

Two-Hour Count Summaries

Interval Start	Cedar Blvd Eastbound				Cedar Blvd Westbound				Moores Ave Northbound				Driveway Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	1	58	3	0	0	21	1	0	4	0	0	0	1	1	0	90	0
7:15 AM	1	1	102	1	0	0	35	0	0	3	0	0	0	0	0	1	144	0
7:30 AM	0	0	110	1	0	0	79	2	0	9	0	0	0	0	0	0	201	0
7:45 AM	**0**	**2**	**161**	**7**	**0**	**0**	**67**	**1**	**0**	**14**	**0**	**1**	**0**	**0**	**0**	**0**	**253**	688
8:00 AM	**0**	**1**	**312**	**11**	**0**	**0**	**87**	**0**	**0**	**14**	**0**	**3**	**0**	**0**	**0**	**1**	**429**	1,027
8:15 AM	**0**	**0**	**258**	**12**	**0**	**0**	**129**	**0**	**0**	**4**	**0**	**6**	**0**	**0**	**0**	**0**	**409**	1,292
8:30 AM	**0**	**2**	**153**	**7**	**0**	**0**	**105**	**0**	**0**	**6**	**0**	**2**	**0**	**0**	**0**	**0**	**275**	**1,366**
8:45 AM	0	2	141	4	0	0	62	1	0	4	0	1	0	0	0	1	216	1,329
Count Total	1	9	1,295	46	0	0	585	5	0	58	0	13	0	1	1	3	2,017	0
Peak Hour All	**0**	**5**	**884**	**37**	**0**	**0**	**388**	**1**	**0**	**38**	**0**	**12**	**0**	**0**	**0**	**1**	**1,366**	**0**
Peak Hour HV	**0**	**0**	**11**	**0**	**0**	**0**	**8**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**1**	**21**	**0**
Peak Hour HV%	**-**	**0%**	**1%**	**0%**	**-**	**-**	**2%**	**0%**	**-**	**0%**	**-**	**8%**	**-**	**-**	**-**	**100%**	**2%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	2	3	0	2	*7*	0	1	0	0	*1*	0	0	0	0	*0*
7:15 AM	5	1	0	0	*6*	1	2	0	0	*3*	3	0	6	7	*16*
7:30 AM	2	3	0	0	*5*	0	0	0	0	*0*	0	0	0	2	*2*
7:45 AM	**1**	**2**	**0**	**0**	***3***	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**1**	**1**	*2*
8:00 AM	**6**	**3**	**0**	**1**	***10***	**1**	**1**	**0**	**0**	***2***	**0**	**0**	**1**	**3**	*4*
8:15 AM	**1**	**1**	**1**	**0**	***3***	**0**	**1**	**0**	**0**	***1***	**0**	**0**	**1**	**2**	*3*
8:30 AM	**3**	**2**	**0**	**0**	***5***	**1**	**0**	**0**	**0**	***1***	**0**	**0**	**1**	**2**	***3***
8:45 AM	3	3	0	0	*6*	0	0	0	0	*0*	0	0	0	1	*1*
Count Total	23	18	1	3	*45*	3	5	0	0	*8*	3	0	10	18	*31*
Peak Hour	**11**	**8**	**1**	**1**	***21***	**2**	**2**	**0**	**0**	***4***	**0**	**0**	**4**	**8**	***12***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	Cedar Blvd Eastbound				Cedar Blvd Westbound				Moores Ave Northbound				Driveway Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	0	2	0	0	0	2	1	0	0	0	0	0	1	1	0	7	0
7:15 AM	0	0	5	0	0	0	1	0	0	0	0	0	0	0	0	0	6	0
7:30 AM	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	5	0
7:45 AM	**0**	**0**	**1**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	21
8:00 AM	**0**	**0**	**6**	**0**	**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**10**	24
8:15 AM	**0**	**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**3**	21
8:30 AM	**0**	**0**	**3**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**5**	**21**
8:45 AM	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	6	24
Count Total	0	0	23	0	0	0	17	1	0	0	0	1	0	1	1	1	45	0
Peak Hour	**0**	**0**	**11**	**0**	**0**	**0**	**8**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**1**	**21**	**0**

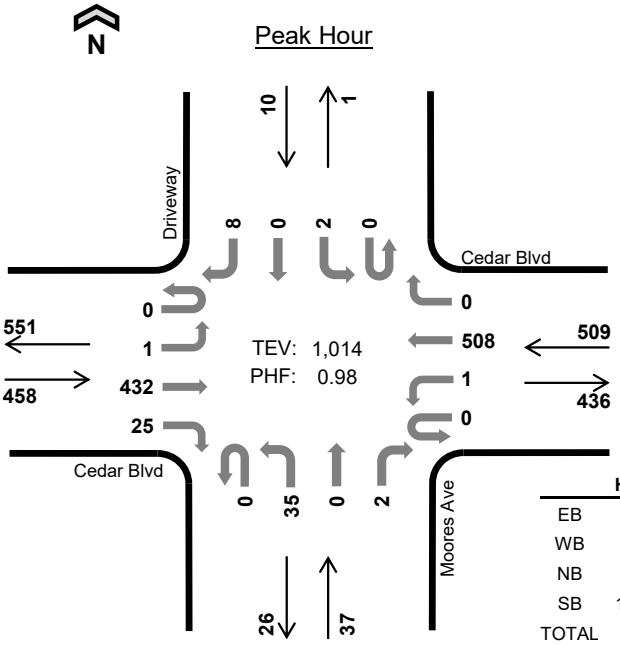
Two-Hour Count Summaries - Bikes

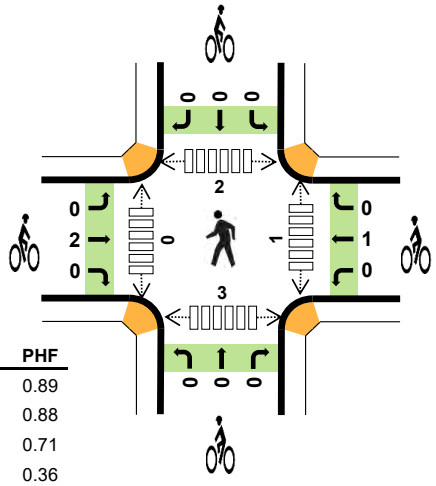
Interval Start	Cedar Blvd Eastbound			Cedar Blvd Westbound			Moores Ave Northbound			Driveway Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
7:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	0
7:15 AM	0	1	0	0	2	0	0	0	0	0	0	0	3	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	4
8:00 AM	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	5
8:15 AM	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	3
8:30 AM	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**4**
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Count Total	0	3	0	0	5	0	0	0	0	0	0	0	8	0
Peak Hour	**0**	**2**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**0**

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Moores Ave
Cedar Blvd

Date: 09/20/2022
Count Period: 4:00 PM to 6:00 PM
Peak Hour: 4:45 PM to 5:45 PM





	HV %:	PHF
EB	1.5%	0.89
WB	1.2%	0.88
NB	0.0%	0.71
SB	10.0%	0.36
TOTAL	1.4%	0.98

Two-Hour Count Summaries

Interval Start	Cedar Blvd Eastbound				Cedar Blvd Westbound				Moores Ave Northbound				Driveway Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	0	88	3	1	0	111	0	0	4	1	1	0	1	0	2	212	0
4:15 PM	0	0	103	12	0	0	107	0	0	4	0	0	0	0	0	1	227	0
4:30 PM	0	0	99	6	0	2	112	0	0	8	0	2	0	3	0	1	233	0
4:45 PM	**0**	**0**	**105**	**9**	**0**	**0**	**124**	**0**	**0**	**6**	**0**	**2**	**0**	**0**	**0**	**1**	**247**	919
5:00 PM	**0**	**0**	**119**	**10**	**0**	**1**	**119**	**0**	**0**	**4**	**0**	**0**	**0**	**1**	**0**	**6**	**260**	967
5:15 PM	**0**	**1**	**116**	**2**	**0**	**0**	**121**	**0**	**0**	**13**	**0**	**0**	**0**	**1**	**0**	**1**	**255**	995
5:30 PM	**0**	**0**	**92**	**4**	**0**	**0**	**144**	**0**	**0**	**12**	**0**	**0**	**0**	**0**	**0**	**0**	**252**	**1,014**
5:45 PM	0	0	97	13	0	0	117	0	0	4	0	2	0	0	0	0	233	1,000
Count Total	0	1	819	59	1	3	955	0	0	55	1	7	0	6	0	12	1,919	0
Peak Hour All	**0**	**1**	**432**	**25**	**0**	**1**	**508**	**0**	**0**	**35**	**0**	**2**	**0**	**2**	**0**	**8**	**1,014**	**0**
Peak Hour HV	**0**	**0**	**6**	**1**	**0**	**0**	**6**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**14**	**0**
Peak Hour HV%	**-**	**0%**	**1%**	**4%**	**-**	**0%**	**1%**	**-**	**-**	**0%**	**-**	**0%**	**-**	**0%**	**-**	**13%**	**1%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	3	2	1	0	*6*	1	0	0	0	*1*	0	0	0	1	*1*
4:15 PM	2	2	0	1	*5*	0	0	0	0	*0*	0	0	0	1	*1*
4:30 PM	3	2	0	0	*5*	0	0	0	0	*0*	2	0	0	1	*3*
4:45 PM	**2**	**1**	**0**	**1**	***4***	**1**	**0**	**0**	**0**	***1***	**0**	**0**	**0**	**0**	*0*
5:00 PM	**3**	**3**	**0**	**0**	***6***	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**2**	*2*
5:15 PM	**0**	**2**	**0**	**0**	***2***	**1**	**0**	**0**	**0**	***1***	**0**	**0**	**1**	**0**	*1*
5:30 PM	**2**	**0**	**0**	**0**	***2***	**0**	**1**	**0**	**0**	***1***	**1**	**0**	**1**	**1**	***3***
5:45 PM	3	2	0	0	*5*	0	0	0	0	*0*	0	0	2	0	*2*
Count Total	18	14	1	2	*35*	3	1	0	0	*4*	3	0	4	6	*13*
Peak Hour	**7**	**6**	**0**	**1**	***14***	**2**	**1**	**0**	**0**	***3***	**1**	**0**	**2**	**3**	***6***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	Cedar Blvd Eastbound				Cedar Blvd Westbound				Moores Ave Northbound				Driveway Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	0	3	0	0	0	2	0	0	0	1	0	0	0	0	0	6	0
4:15 PM	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	1	5	0
4:30 PM	0	0	3	0	0	0	2	0	0	0	0	0	0	0	0	0	5	0
4:45 PM	**0**	**0**	**2**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**4**	20
5:00 PM	**0**	**0**	**2**	**1**	**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	20
5:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	17
5:30 PM	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**14**
5:45 PM	0	0	3	0	0	0	2	0	0	0	0	0	0	0	0	0	5	15
Count Total	0	0	17	1	0	0	14	0	0	0	1	0	0	0	0	2	35	0
Peak Hour	**0**	**0**	**6**	**1**	**0**	**0**	**6**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**14**	**0**

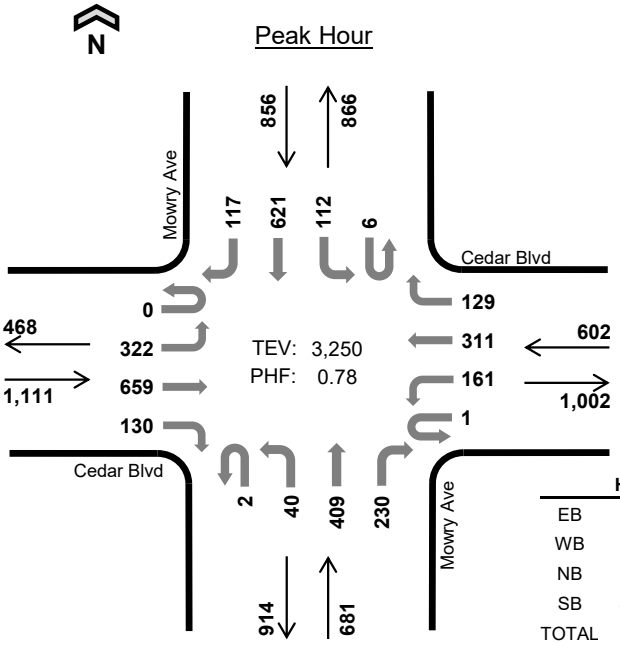
Two-Hour Count Summaries - Bikes

Interval Start	Cedar Blvd Eastbound			Cedar Blvd Westbound			Moores Ave Northbound			Driveway Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	2
5:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	1
5:15 PM	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	2
5:30 PM	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**3**
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Count Total	0	3	0	0	1	0	0	0	0	0	0	0	4	0
Peak Hour	**0**	**2**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**0**

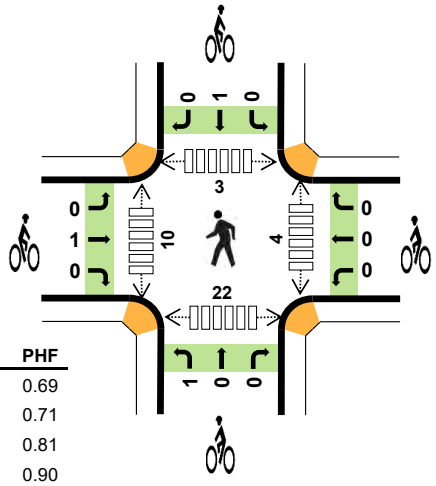
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Mowry Ave
Cedar Blvd

Date: 09/20/2022
Count Period: 7:00 AM to 9:00 AM
Peak Hour: 7:45 AM to 8:45 AM



	HV %:	PHF
EB	1.4%	0.69
WB	0.8%	0.71
NB	6.2%	0.81
SB	4.9%	0.90
TOTAL	3.2%	0.78



Two-Hour Count Summaries

Interval Start	Cedar Blvd Eastbound				Cedar Blvd Westbound				Mowry Ave Northbound				Mowry Ave Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	48	34	6	0	6	12	15	0	1	89	18	4	22	104	15	374	0
7:15 AM	0	39	78	17	0	33	27	25	0	2	75	55	2	20	125	21	519	0
7:30 AM	0	61	76	14	0	34	48	41	2	5	100	31	1	21	126	23	583	0
7:45 AM	**0**	**66**	**112**	**31**	**0**	**25**	**47**	**21**	**0**	**15**	**82**	**50**	**2**	**19**	**132**	**19**	**621**	2,097
8:00 AM	**0**	**86**	**190**	**35**	**0**	**41**	**64**	**22**	**1**	**13**	**131**	**66**	**3**	**27**	**167**	**41**	**887**	2,610
8:15 AM	**0**	**104**	**265**	**31**	**0**	**56**	**111**	**44**	**1**	**5**	**114**	**90**	**1**	**37**	**165**	**21**	**1,045**	3,136
8:30 AM	**0**	**66**	**92**	**33**	**1**	**39**	**89**	**42**	**0**	**7**	**82**	**24**	**0**	**29**	**157**	**36**	**697**	**3,250**
8:45 AM	0	75	71	40	0	19	34	22	0	1	77	21	1	34	153	39	587	3,216
Count Total	0	545	918	207	1	253	432	232	4	49	750	355	14	209	1,129	215	5,313	0
Peak Hour All	**0**	**322**	**659**	**130**	**1**	**161**	**311**	**129**	**2**	**40**	**409**	**230**	**6**	**112**	**621**	**117**	**3,250**	**0**
Peak Hour HV	**0**	**8**	**6**	**1**	**0**	**2**	**3**	**0**	**0**	**2**	**39**	**1**	**0**	**1**	**37**	**4**	**104**	**0**
Peak Hour HV%	**-**	**2%**	**1%**	**1%**	**0%**	**1%**	**1%**	**0%**	**0%**	**5%**	**10%**	**0%**	**0%**	**1%**	**6%**	**3%**	**3%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	1	1	26	7	*35*	0	0	0	0	*0*	0	2	1	1	*4*
7:15 AM	5	1	12	11	*29*	1	2	0	0	*3*	1	2	1	1	*5*
7:30 AM	1	1	11	17	*30*	0	0	0	0	*0*	1	2	3	4	*10*
7:45 AM	**3**	**2**	**13**	**7**	***25***	**0**	**0**	**0**	**0**	***0***	**0**	**3**	**2**	**4**	*9*
8:00 AM	**4**	**1**	**12**	**9**	***26***	**0**	**0**	**1**	**0**	***1***	**2**	**3**	**1**	**7**	*13*
8:15 AM	**4**	**1**	**9**	**10**	***24***	**0**	**0**	**0**	**1**	***1***	**1**	**0**	**0**	**9**	*10*
8:30 AM	**4**	**1**	**8**	**16**	***29***	**1**	**0**	**0**	**0**	***1***	**1**	**4**	**0**	**2**	**7**
8:45 AM	3	1	6	23	*33*	0	0	1	0	*1*	12	1	11	3	*27*
Count Total	25	9	97	100	*231*	2	2	2	1	*7*	18	17	19	31	*85*
Peak Hour	**15**	**5**	**42**	**42**	***104***	**1**	**0**	**1**	**1**	***3***	**4**	**10**	**3**	**22**	***39***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	Cedar Blvd Eastbound				Cedar Blvd Westbound				Mowry Ave Northbound				Mowry Ave Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	1	0	0	0	0	1	0	0	0	26	0	0	2	4	1	35	0
7:15 AM	0	1	3	1	0	1	0	0	0	0	12	0	1	0	8	2	29	0
7:30 AM	0	1	0	0	0	0	0	1	0	0	11	0	0	1	12	4	30	0
7:45 AM	**0**	**3**	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**1**	**12**	**0**	**0**	**0**	**7**	**0**	**25**	119
8:00 AM	**0**	**3**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**11**	**0**	**0**	**1**	**6**	**2**	**26**	110
8:15 AM	**0**	**2**	**2**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**8**	**1**	**0**	**0**	**10**	**0**	**24**	105
8:30 AM	**0**	**0**	**3**	**1**	**0**	**1**	**0**	**0**	**0**	**0**	**8**	**0**	**0**	**0**	**14**	**2**	**29**	**104**
8:45 AM	0	2	1	0	0	0	0	1	0	0	6	0	0	1	19	3	33	112
Count Total	0	13	10	2	0	3	4	2	0	2	94	1	1	5	80	14	231	0
Peak Hour	**0**	**8**	**6**	**1**	**0**	**2**	**3**	**0**	**0**	**2**	**39**	**1**	**0**	**1**	**37**	**4**	**104**	**0**

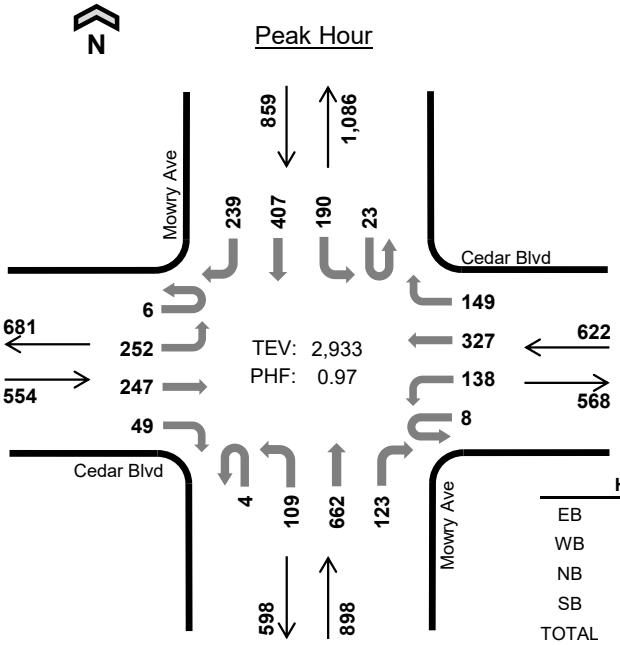
Two-Hour Count Summaries - Bikes

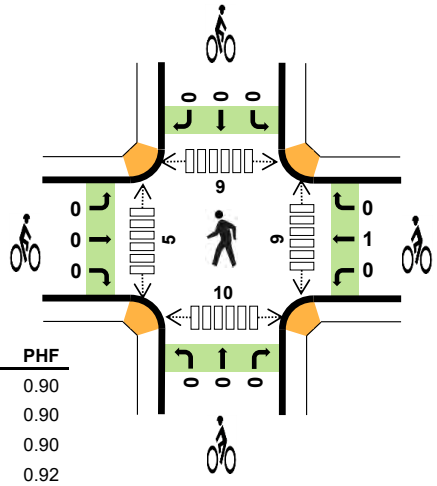
Interval Start	Cedar Blvd Eastbound			Cedar Blvd Westbound			Mowry Ave Northbound			Mowry Ave Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	1	0	0	2	0	0	0	0	0	0	0	3	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	3
8:00 AM	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**1**	4
8:15 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	2
8:30 AM	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**3**
8:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	4
Count Total	0	2	0	0	2	0	1	1	0	0	1	0	7	0
Peak Hour	**0**	**1**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**1**	**0**	**3**	**0**

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Mowry Ave
Cedar Blvd

Date: 09/20/2022
Count Period: 4:00 PM to 6:00 PM
Peak Hour: 5:00 PM to 6:00 PM





	HV %:	PHF
EB	1.8%	0.90
WB	1.4%	0.90
NB	2.7%	0.90
SB	3.7%	0.92
TOTAL	2.6%	0.97

Two-Hour Count Summaries

Interval Start	Cedar Blvd Eastbound				Cedar Blvd Westbound				Mowry Ave Northbound				Mowry Ave Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	50	61	11	2	36	87	27	2	17	148	25	6	41	79	58	650	0
4:15 PM	1	48	61	21	1	19	58	27	1	13	162	16	8	51	103	46	636	0
4:30 PM	0	56	53	15	3	30	73	28	1	19	174	22	4	32	95	66	671	0
4:45 PM	0	56	68	18	3	25	80	20	1	26	142	22	4	59	113	59	696	2,653
5:00 PM	**2**	**72**	**66**	**14**	**1**	**30**	**72**	**36**	**0**	**24**	**191**	**34**	**8**	**37**	**105**	**64**	**756**	2,759
5:15 PM	**3**	**71**	**58**	**12**	**1**	**31**	**91**	**32**	**1**	**29**	**169**	**26**	**8**	**55**	**105**	**66**	**758**	2,881
5:30 PM	**0**	**43**	**49**	**10**	**3**	**29**	**81**	**42**	**3**	**28**	**149**	**23**	**2**	**49**	**96**	**57**	**664**	2,874
5:45 PM	**1**	**66**	**74**	**13**	**3**	**48**	**83**	**39**	**0**	**28**	**153**	**40**	**5**	**49**	**101**	**52**	**755**	**2,933**
Count Total	7	462	490	114	17	248	625	251	9	184	1,288	208	45	373	797	468	5,586	0
Peak Hour All	**6**	**252**	**247**	**49**	**8**	**138**	**327**	**149**	**4**	**109**	**662**	**123**	**23**	**190**	**407**	**239**	**2,933**	**0**
Peak Hour HV	**0**	**8**	**2**	**0**	**0**	**2**	**2**	**5**	**0**	**0**	**21**	**3**	**0**	**0**	**26**	**6**	**75**	**0**
Peak Hour HV%	**0%**	**3%**	**1%**	**0%**	**0%**	**1%**	**1%**	**3%**	**0%**	**0%**	**3%**	**2%**	**0%**	**0%**	**6%**	**3%**	**3%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	3	1	11	14	*29*	0	0	0	0	*0*	4	1	2	4	*11*
4:15 PM	2	1	7	15	*25*	0	0	0	0	*0*	3	1	1	4	*9*
4:30 PM	3	2	8	11	*24*	0	1	0	0	*1*	1	1	1	1	*4*
4:45 PM	2	1	9	6	*18*	1	0	0	0	*1*	0	4	3	3	*10*
5:00 PM	**2**	**1**	**8**	**10**	***21***	**0**	**0**	**0**	**0**	***0***	**4**	**1**	**2**	**2**	*9*
5:15 PM	**1**	**3**	**3**	**5**	***12***	**0**	**0**	**0**	**0**	***0***	**2**	**2**	**3**	**3**	*10*
5:30 PM	**2**	**3**	**10**	**9**	***24***	**0**	**1**	**0**	**0**	***1***	**0**	**1**	**3**	**3**	*7*
5:45 PM	**5**	**2**	**3**	**8**	***18***	**0**	**0**	**0**	**0**	***0***	**3**	**1**	**1**	**2**	***7***
Count Total	20	14	59	78	*171*	1	2	0	0	*3*	17	12	16	22	*67*
Peak Hour	**10**	**9**	**24**	**32**	***75***	**0**	**1**	**0**	**0**	***1***	**9**	**5**	**9**	**10**	***33***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	Cedar Blvd Eastbound				Cedar Blvd Westbound				Mowry Ave Northbound				Mowry Ave Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	1	2	0	0	0	0	1	0	0	11	0	0	2	9	3	29	0
4:15 PM	0	1	1	0	0	0	1	0	0	0	7	0	0	1	11	3	25	0
4:30 PM	0	1	2	0	0	1	0	1	0	1	7	0	0	0	9	2	24	0
4:45 PM	0	2	0	0	0	1	0	0	0	1	7	1	0	0	6	0	18	96
5:00 PM	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**6**	**2**	**0**	**0**	**7**	**3**	**21**	88
5:15 PM	**0**	**1**	**0**	**0**	**0**	**1**	**1**	**1**	**0**	**0**	**3**	**0**	**0**	**0**	**4**	**1**	**12**	75
5:30 PM	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**9**	**1**	**0**	**0**	**8**	**1**	**24**	75
5:45 PM	**0**	**3**	**2**	**0**	**0**	**1**	**1**	**0**	**0**	**0**	**3**	**0**	**0**	**0**	**7**	**1**	**18**	**75**
Count Total	0	13	7	0	0	4	3	7	0	2	53	4	0	3	61	14	171	0
Peak Hour	**0**	**8**	**2**	**0**	**0**	**2**	**2**	**5**	**0**	**0**	**21**	**3**	**0**	**0**	**26**	**6**	**75**	**0**

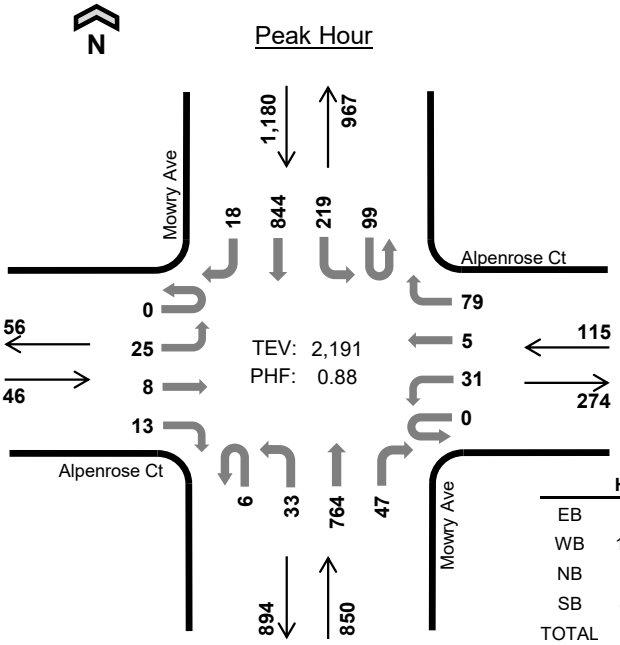
Two-Hour Count Summaries - Bikes

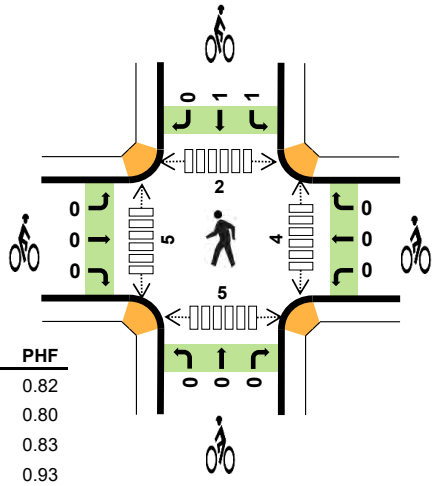
Interval Start	Cedar Blvd Eastbound			Cedar Blvd Westbound			Mowry Ave Northbound			Mowry Ave Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	1	0	0	0	0	0	0	0	1	0
4:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	2
5:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	2
5:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	2
5:30 PM	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	2
5:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**
Count Total	0	1	0	0	2	0	0	0	0	0	0	0	3	0
Peak Hour	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Mowry Ave
Alpenrose Ct

Date: 09/20/2022
Count Period: 7:00 AM to 9:00 AM
Peak Hour: 8:00 AM to 9:00 AM





	HV %:	PHF
EB	6.5%	0.82
WB	10.4%	0.80
NB	5.1%	0.83
SB	4.7%	0.93
TOTAL	5.2%	0.88

Two-Hour Count Summaries

Interval Start	Alpenrose Ct Eastbound				Alpenrose Ct Westbound				Mowry Ave Northbound				Mowry Ave Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	6	0	1	0	12	0	15	1	3	139	4	1	31	135	2	350	0
7:15 AM	0	2	1	4	0	11	1	19	0	4	126	5	8	25	145	0	351	0
7:30 AM	0	1	1	2	0	6	0	18	1	3	181	13	6	39	161	1	433	0
7:45 AM	0	4	0	3	0	7	1	18	2	3	160	7	15	42	176	2	440	1,574
8:00 AM	**0**	**7**	**1**	**2**	**0**	**7**	**1**	**19**	**1**	**15**	**200**	**7**	**31**	**44**	**207**	**4**	**546**	1,770
8:15 AM	**0**	**7**	**4**	**2**	**0**	**4**	**2**	**30**	**1**	**9**	**229**	**16**	**32**	**54**	**224**	**7**	**621**	2,040
8:30 AM	**0**	**7**	**1**	**6**	**0**	**11**	**0**	**16**	**2**	**6**	**180**	**6**	**23**	**56**	**193**	**2**	**509**	2,116
8:45 AM	**0**	**4**	**2**	**3**	**0**	**9**	**2**	**14**	**2**	**3**	**155**	**18**	**13**	**65**	**220**	**5**	**515**	**2,191**
Count Total	0	38	10	23	0	67	7	149	10	46	1,370	76	129	356	1,461	23	3,765	0
Peak Hour All	**0**	**25**	**8**	**13**	**0**	**31**	**5**	**79**	**6**	**33**	**764**	**47**	**99**	**219**	**844**	**18**	**2,191**	**0**
Peak Hour HV	**0**	**3**	**0**	**0**	**0**	**8**	**0**	**4**	**0**	**1**	**35**	**7**	**0**	**6**	**49**	**0**	**113**	**0**
Peak Hour HV%	**-**	**12%**	**0%**	**0%**	**-**	**26%**	**0%**	**5%**	**0%**	**3%**	**5%**	**15%**	**0%**	**3%**	**6%**	**0%**	**5%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	1	6	28	7	*42*	0	0	0	0	*0*	0	1	0	0	*1*
7:15 AM	0	4	13	10	*27*	0	0	0	1	*1*	0	2	0	0	*2*
7:30 AM	0	3	14	13	*30*	0	0	0	0	*0*	1	1	0	0	*2*
7:45 AM	1	2	15	8	*26*	0	0	0	0	*0*	1	0	0	1	*2*
8:00 AM	**1**	**5**	**12**	**9**	***27***	**0**	**0**	**0**	**0**	***0***	**2**	**0**	**0**	**0**	*2*
8:15 AM	**2**	**1**	**11**	**12**	***26***	**0**	**0**	**0**	**2**	***2***	**0**	**0**	**0**	**0**	*0*
8:30 AM	**0**	**2**	**9**	**13**	***24***	**0**	**0**	**0**	**0**	***0***	**1**	**4**	**1**	**2**	*8*
8:45 AM	**0**	**4**	**11**	**21**	***36***	**0**	**0**	**0**	**0**	***0***	**1**	**1**	**1**	**3**	***6***
Count Total	5	27	113	93	*238*	0	0	0	3	*3*	6	9	2	6	*23*
Peak Hour	**3**	**12**	**43**	**55**	***113***	**0**	**0**	**0**	**2**	***2***	**4**	**5**	**2**	**5**	***16***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	Alpenrose Ct Eastbound				Alpenrose Ct Westbound				Mowry Ave Northbound				Mowry Ave Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	1	0	0	0	3	0	3	0	0	27	1	0	2	4	1	42	0
7:15 AM	0	0	0	0	0	2	0	2	0	0	12	1	0	1	9	0	27	0
7:30 AM	0	0	0	0	0	2	0	1	0	0	11	3	0	1	12	0	30	0
7:45 AM	0	1	0	0	0	0	0	2	0	0	14	1	0	0	8	0	26	125
8:00 AM	**0**	**1**	**0**	**0**	**0**	**3**	**0**	**2**	**0**	**1**	**9**	**2**	**0**	**3**	**6**	**0**	**27**	110
8:15 AM	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**10**	**1**	**0**	**2**	**10**	**0**	**26**	109
8:30 AM	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**9**	**0**	**0**	**0**	**13**	**0**	**24**	103
8:45 AM	**0**	**0**	**0**	**0**	**0**	**3**	**0**	**1**	**0**	**0**	**7**	**4**	**0**	**1**	**20**	**0**	**36**	**113**
Count Total	0	5	0	0	0	15	0	12	0	1	99	13	0	10	82	1	238	0
Peak Hour	**0**	**3**	**0**	**0**	**0**	**8**	**0**	**4**	**0**	**1**	**35**	**7**	**0**	**6**	**49**	**0**	**113**	**0**

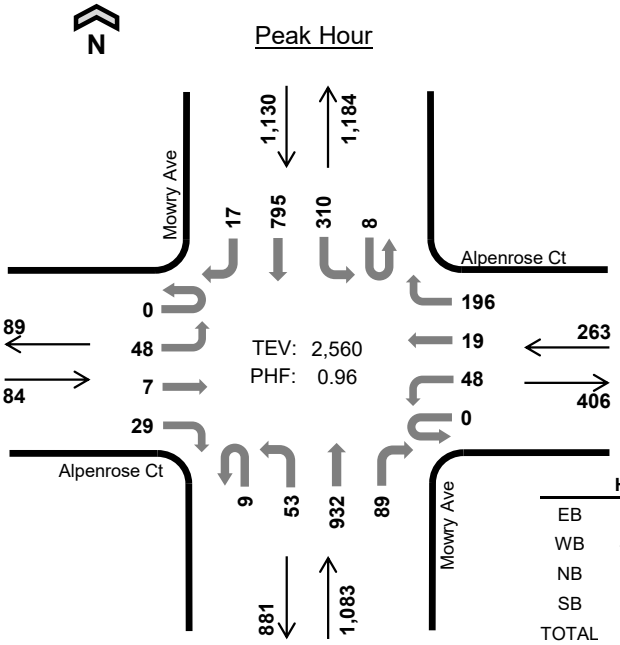
Two-Hour Count Summaries - Bikes

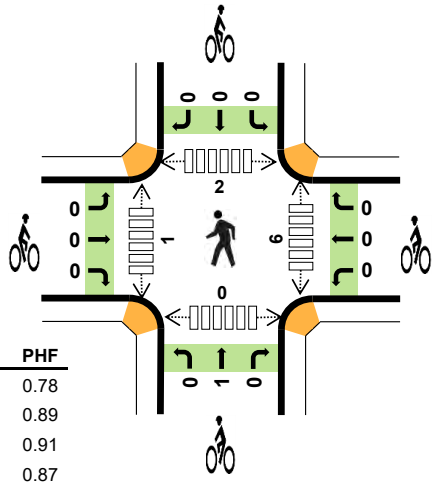
Interval Start	Alpenrose Ct Eastbound			Alpenrose Ct Westbound			Mowry Ave Northbound			Mowry Ave Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:00 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	1
8:15 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**	**2**	2
8:30 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	2
8:45 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**
Count Total	0	0	0	0	0	0	0	0	0	1	2	0	3	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**	**2**	**0**

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Mowry Ave
Alpenrose Ct

Date: 09/20/2022
Count Period: 4:00 PM to 6:00 PM
Peak Hour: 5:00 PM to 6:00 PM





	HV %:	PHF
EB	3.6%	0.78
WB	4.6%	0.89
NB	2.9%	0.91
SB	2.8%	0.87
TOTAL	3.0%	0.96

Two-Hour Count Summaries

Interval Start	Alpenrose Ct Eastbound				Alpenrose Ct Westbound				Mowry Ave Northbound				Mowry Ave Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	4	1	6	0	10	1	36	1	7	198	16	4	66	187	2	539	0
4:15 PM	0	8	4	3	0	16	2	38	3	9	198	20	7	78	187	0	573	0
4:30 PM	0	17	2	9	0	11	3	50	0	8	235	12	3	71	198	1	620	0
4:45 PM	0	12	1	5	0	14	0	33	0	9	197	21	6	85	206	2	591	2,323
5:00 PM	**0**	**17**	**1**	**9**	**0**	**11**	**7**	**56**	**2**	**13**	**257**	**27**	**1**	**64**	**194**	**4**	**663**	2,447
5:15 PM	**0**	**12**	**2**	**7**	**0**	**16**	**4**	**35**	**3**	**20**	**230**	**17**	**3**	**101**	**212**	**7**	**669**	2,543
5:30 PM	**0**	**12**	**1**	**11**	**0**	**9**	**3**	**48**	**2**	**9**	**213**	**22**	**3**	**79**	**176**	**4**	**592**	2,515
5:45 PM	**0**	**7**	**3**	**2**	**0**	**12**	**5**	**57**	**2**	**11**	**232**	**23**	**1**	**66**	**213**	**2**	**636**	**2,560**
Count Total	0	89	15	52	0	99	25	353	13	86	1,760	158	28	610	1,573	22	4,883	0
Peak Hour All	**0**	**48**	**7**	**29**	**0**	**48**	**19**	**196**	**9**	**53**	**932**	**89**	**8**	**310**	**795**	**17**	**2,560**	**0**
Peak Hour HV	**0**	**2**	**0**	**1**	**0**	**7**	**0**	**5**	**1**	**0**	**25**	**5**	**0**	**6**	**26**	**0**	**78**	**0**
Peak Hour HV%	**-**	**4%**	**0%**	**3%**	**-**	**15%**	**0%**	**3%**	**11%**	**0%**	**3%**	**6%**	**0%**	**2%**	**3%**	**0%**	**3%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	0	4	13	13	*30*	0	0	0	0	*0*	0	0	0	0	*0*
4:15 PM	0	1	8	13	*22*	0	0	0	0	*0*	0	0	0	2	*2*
4:30 PM	1	1	9	12	*23*	0	0	0	0	*0*	0	0	0	0	*0*
4:45 PM	1	4	10	7	*22*	0	0	0	0	*0*	1	1	0	0	*2*
5:00 PM	**2**	**5**	**9**	**8**	***24***	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**0**	*0*
5:15 PM	**0**	**2**	**4**	**5**	***11***	**0**	**0**	**0**	**0**	***0***	**2**	**1**	**2**	**0**	*5*
5:30 PM	**1**	**1**	**11**	**11**	***24***	**0**	**0**	**0**	**0**	***0***	**3**	**0**	**0**	**0**	*3*
5:45 PM	**0**	**4**	**7**	**8**	***19***	**0**	**0**	**1**	**0**	***1***	**1**	**0**	**0**	**0**	***1***
Count Total	5	22	71	77	*175*	0	0	1	0	*1*	7	2	2	2	*13*
Peak Hour	**3**	**12**	**31**	**32**	***78***	**0**	**0**	**1**	**0**	***1***	**6**	**1**	**2**	**0**	***9***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	Alpenrose Ct Eastbound				Alpenrose Ct Westbound				Mowry Ave Northbound				Mowry Ave Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	0	0	0	0	3	0	1	0	1	9	3	0	1	12	0	30	0
4:15 PM	0	0	0	0	0	0	0	1	0	0	7	1	0	2	11	0	22	0
4:30 PM	0	1	0	0	0	1	0	0	0	0	8	1	0	2	10	0	23	0
4:45 PM	0	1	0	0	0	1	0	3	0	0	7	3	0	2	5	0	22	97
5:00 PM	**0**	**1**	**0**	**1**	**0**	**4**	**0**	**1**	**0**	**0**	**9**	**0**	**0**	**1**	**7**	**0**	**24**	91
5:15 PM	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	**0**	**0**	**3**	**1**	**0**	**2**	**3**	**0**	**11**	80
5:30 PM	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**9**	**2**	**0**	**2**	**9**	**0**	**24**	81
5:45 PM	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**2**	**1**	**0**	**4**	**2**	**0**	**1**	**7**	**0**	**19**	**78**
Count Total	0	4	0	1	0	12	0	10	1	1	56	13	0	13	64	0	175	0
Peak Hour	**0**	**2**	**0**	**1**	**0**	**7**	**0**	**5**	**1**	**0**	**25**	**5**	**0**	**6**	**26**	**0**	**78**	**0**

Two-Hour Count Summaries - Bikes

Interval Start	Alpenrose Ct Eastbound			Alpenrose Ct Westbound			Mowry Ave Northbound			Mowry Ave Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
5:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
5:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
5:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**	**1**
Count Total	0	0	0	0	0	0	0	1	0	0	0	0	1	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**	**0**

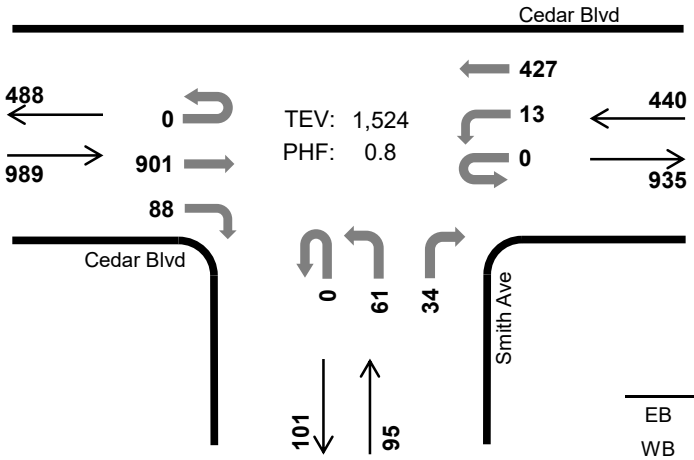
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

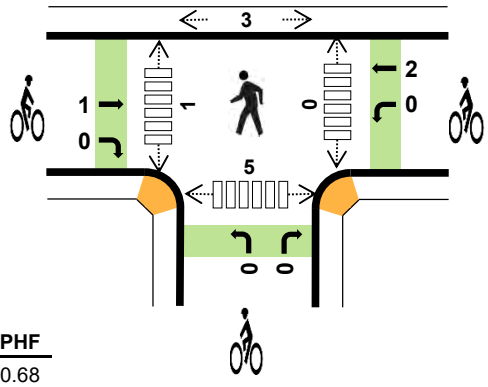
Smith Ave
Cedar Blvd

N

Peak Hour

Date: 09/20/2022
Count Period: 7:00 AM to 9:00 AM
Peak Hour: 7:45 AM to 8:45 AM





	HV %:	PHF
EB	1.0%	0.68
WB	2.0%	0.80
NB	0.0%	0.68
SB	-	-
TOTAL	1.2%	0.80

Two-Hour Count Summaries

Interval Start		Cedar Blvd Eastbound				Cedar Blvd Westbound				Smith Ave Northbound				N/A Southbound				15-min Total	Rolling One Hour
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM		0	0	60	4	0	0	23	0	0	6	0	1	0	0	0	0	94	0
7:15 AM		0	0	105	4	0	0	38	0	0	7	0	3	0	0	0	0	157	0
7:30 AM		1	0	109	11	0	0	72	0	0	9	0	2	0	0	0	0	204	0
7:45 AM		**0**	**0**	**173**	**16**	**0**	**2**	**89**	**0**	**0**	**21**	**0**	**2**	**0**	**0**	**0**	**0**	**303**	758
8:00 AM		**0**	**0**	**320**	**41**	**0**	**2**	**97**	**0**	**0**	**8**	**0**	**7**	**0**	**0**	**0**	**0**	**475**	1,139
8:15 AM		**0**	**0**	**253**	**25**	**0**	**7**	**131**	**0**	**0**	**16**	**0**	**19**	**0**	**0**	**0**	**0**	**451**	1,433
8:30 AM		**0**	**0**	**155**	**6**	**0**	**2**	**110**	**0**	**0**	**16**	**0**	**6**	**0**	**0**	**0**	**0**	**295**	**1,524**
8:45 AM		0	0	148	2	0	1	66	0	0	8	0	2	0	0	0	0	227	1,448
Count Total		1	0	1,323	109	0	14	626	0	0	91	0	42	0	0	0	0	2,206	0
Peak Hour	**All**	**0**	**0**	**901**	**88**	**0**	**13**	**427**	**0**	**0**	**61**	**0**	**34**	**0**	**0**	**0**	**0**	**1,524**	**0**
	HV	**0**	**0**	**10**	**0**	**0**	**0**	**9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**19**	**0**
	HV%	**-**	**-**	**1%**	**0%**	**-**	**0%**	**2%**	**-**	**-**	**0%**	**-**	**0%**	**-**	**-**	**-**	**-**	**1%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	2	3	0	0	*5*	0	1	0	0	*1*	0	0	0	0	*0*
7:15 AM	5	1	0	0	*6*	1	2	0	0	*3*	0	0	0	0	*0*
7:30 AM	1	2	0	0	*3*	0	0	0	0	*0*	2	2	0	1	*5*
7:45 AM	**0**	**2**	**0**	**0**	***2***	**0**	**0**	**0**	**0**	***0***	**0**	**1**	**0**	**1**	*2*
8:00 AM	**6**	**4**	**0**	**0**	***10***	**1**	**1**	**0**	**0**	***2***	**0**	**0**	**2**	**2**	*4*
8:15 AM	**1**	**1**	**0**	**0**	***2***	**0**	**1**	**0**	**0**	***1***	**0**	**0**	**0**	**0**	*0*
8:30 AM	**3**	**2**	**0**	**0**	***5***	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**1**	**2**	***3***
8:45 AM	3	3	1	0	*7*	0	0	0	0	*0*	0	0	0	1	*1*
Count Total	21	18	1	0	*40*	2	5	0	0	*7*	2	3	3	7	*15*
Peak Hr	**10**	**9**	**0**	**0**	***19***	**1**	**2**	**0**	**0**	***3***	**0**	**1**	**3**	**5**	***9***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	Cedar Blvd				Cedar Blvd				Smith Ave				N/A				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	5	0
7:15 AM	0	0	4	1	0	0	1	0	0	0	0	0	0	0	0	0	6	0
7:30 AM	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	3	0
7:45 AM	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	16
8:00 AM	**0**	**0**	**6**	**0**	**0**	**0**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**10**	21
8:15 AM	**0**	**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	17
8:30 AM	**0**	**0**	**3**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**5**	**19**
8:45 AM	0	0	3	0	0	0	3	0	0	0	0	1	0	0	0	0	7	24
Count Total	0	0	20	1	0	0	18	0	0	0	0	1	0	0	0	0	40	0
Peak Hour	**0**	**0**	**10**	**0**	**0**	**0**	**9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**19**	**0**

Two-Hour Count Summaries - Bikes

Interval Start	Cedar Blvd			Cedar Blvd			Smith Ave			N/A			15-min Total	Rolling One Hour
	Eastbound			Westbound			Northbound			Southbound				
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
7:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	0
7:15 AM	0	1	0	0	2	0	0	0	0	0	0	0	3	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	4
8:00 AM	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	5
8:15 AM	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	3
8:30 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Count Total	0	2	0	0	5	0	0	0	0	0	0	0	7	0
Peak Hour	**0**	**1**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**0**

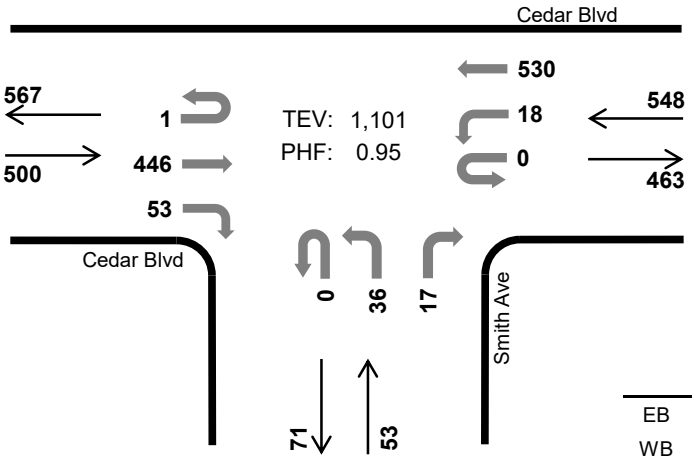
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

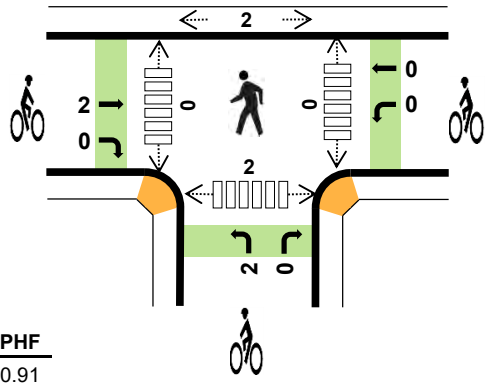
Smith Ave
Cedar Blvd

N

Peak Hour

Date: 09/20/2022
Count Period: 4:00 PM to 6:00 PM
Peak Hour: 4:45 PM to 5:45 PM





	HV %:	PHF
EB	1.6%	0.91
WB	1.5%	0.90
NB	0.0%	0.78
SB	-	-
TOTAL	1.5%	0.95

Two-Hour Count Summaries

Interval Start		Cedar Blvd Eastbound				Cedar Blvd Westbound				Smith Ave Northbound				N/A Southbound				15-min Total	Rolling One Hour
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM		0	0	84	12	0	6	109	0	0	11	0	3	0	0	0	0	225	0
4:15 PM		0	0	117	6	0	0	102	0	0	8	0	3	0	0	0	0	236	0
4:30 PM		0	0	103	11	0	3	127	0	0	12	0	2	0	0	0	0	258	0
4:45 PM		**0**	**0**	**114**	**10**	**0**	**4**	**127**	**0**	**0**	**15**	**0**	**2**	**0**	**0**	**0**	**0**	**272**	991
5:00 PM		**1**	**0**	**121**	**16**	**0**	**9**	**126**	**0**	**0**	**9**	**0**	**7**	**0**	**0**	**0**	**0**	**289**	1,055
5:15 PM		**0**	**0**	**116**	**9**	**0**	**3**	**126**	**0**	**0**	**6**	**0**	**6**	**0**	**0**	**0**	**0**	**266**	1,085
5:30 PM		**0**	**0**	**95**	**18**	**0**	**2**	**151**	**0**	**0**	**6**	**0**	**2**	**0**	**0**	**0**	**0**	**274**	**1,101**
5:45 PM		0	0	107	14	0	3	129	0	0	8	0	2	0	0	0	0	263	1,092
Count Total		1	0	857	96	0	30	997	0	0	75	0	27	0	0	0	0	2,083	0
Peak Hour	**All**	**1**	**0**	**446**	**53**	**0**	**18**	**530**	**0**	**0**	**36**	**0**	**17**	**0**	**0**	**0**	**0**	**1,101**	**0**
	HV	**0**	**0**	**7**	**1**	**0**	**0**	**8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**16**	**0**
	HV%	**0%**	**-**	**2%**	**2%**	**-**	**0%**	**2%**	**-**	**-**	**0%**	**-**	**0%**	**-**	**-**	**-**	**-**	**1%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	3	2	0	0	*5*	1	0	0	0	*1*	0	0	1	2	*3*
4:15 PM	2	2	0	0	*4*	0	0	0	0	*0*	0	0	0	1	*1*
4:30 PM	3	3	0	0	*6*	2	0	0	0	*2*	0	0	0	0	*0*
4:45 PM	**3**	**3**	**0**	**0**	***6***	**1**	**0**	**0**	**0**	***1***	**0**	**0**	**0**	**0**	*0*
5:00 PM	**3**	**3**	**0**	**0**	***6***	**0**	**0**	**2**	**0**	***2***	**0**	**0**	**0**	**2**	*2*
5:15 PM	**0**	**2**	**0**	**0**	***2***	**1**	**0**	**0**	**0**	***1***	**0**	**0**	**1**	**0**	*1*
5:30 PM	**2**	**0**	**0**	**0**	***2***	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**1**	**0**	***1***
5:45 PM	5	3	0	0	*8*	0	1	0	0	*1*	0	0	0	4	*4*
Count Total	21	18	0	0	*39*	5	1	2	0	*8*	0	0	3	9	*12*
Peak Hr	**8**	**8**	**0**	**0**	***16***	**2**	**0**	**2**	**0**	***4***	**0**	**0**	**2**	**2**	***4***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	Cedar Blvd				Cedar Blvd				Smith Ave				N/A				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	0	3	0	0	0	2	0	0	0	0	0	0	0	0	0	5	0
4:15 PM	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	4	0
4:30 PM	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	6	0
4:45 PM	**0**	**0**	**2**	**1**	**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	21
5:00 PM	**0**	**0**	**3**	**0**	**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	22
5:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	20
5:30 PM	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**16**
5:45 PM	0	0	4	1	0	0	3	0	0	0	0	0	0	0	0	0	8	18
Count Total	0	0	19	2	0	0	18	0	0	0	0	0	0	0	0	0	39	0
Peak Hour	**0**	**0**	**7**	**1**	**0**	**0**	**8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**16**	**0**

Two-Hour Count Summaries - Bikes

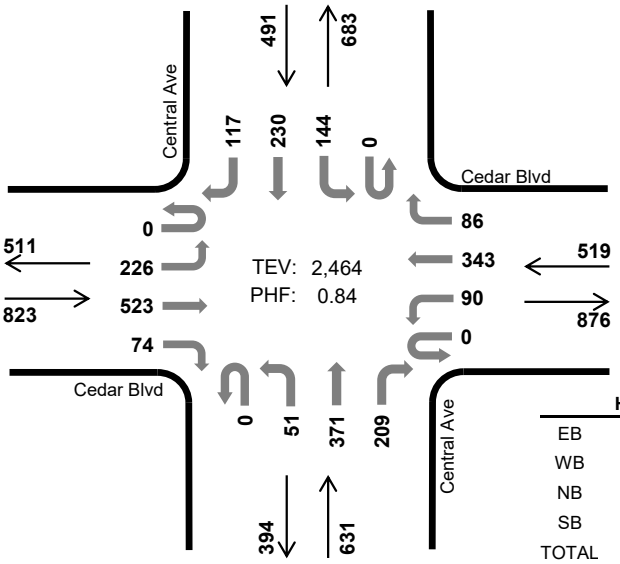
Interval Start	Cedar Blvd			Cedar Blvd			Smith Ave			N/A			15-min Total	Rolling One Hour
	Eastbound			Westbound			Northbound			Southbound				
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	2	0	0	0	0	0	0	0	0	0	2	0
4:45 PM	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	4
5:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**2**	5
5:15 PM	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	6
5:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**
5:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	1	4
Count Total	0	3	2	0	1	0	2	0	0	0	0	0	8	0
Peak Hour	**0**	**2**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**4**	**0**

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

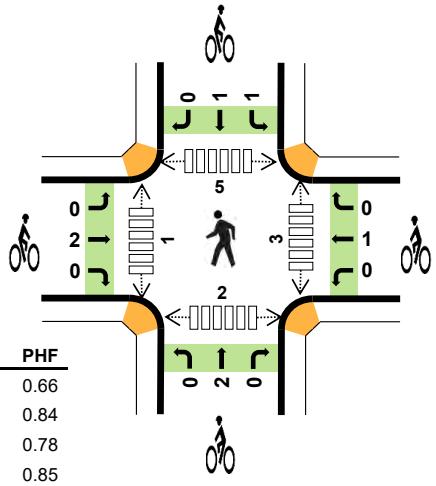
Central Ave
Cedar Blvd

Date: 09/20/2022
Count Period: 7:00 AM to 9:00 AM
Peak Hour: 7:45 AM to 8:45 AM

Peak Hour



	HV %:	PHF
EB	1.8%	0.66
WB	1.7%	0.84
NB	2.7%	0.78
SB	0.6%	0.85
TOTAL	1.8%	0.84



Two-Hour Count Summaries

Interval Start	Cedar Blvd Eastbound				Cedar Blvd Westbound				Central Ave Northbound				Central Ave Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	20	34	5	0	5	26	4	0	8	35	13	0	13	34	15	212	0
7:15 AM	0	20	67	14	0	9	34	11	0	8	47	18	0	17	45	15	305	0
7:30 AM	0	31	45	14	0	18	59	15	1	8	76	43	0	17	40	24	391	0
7:45 AM	**0**	**69**	**111**	**29**	**0**	**24**	**63**	**18**	**0**	**12**	**91**	**39**	**0**	**38**	**46**	**34**	**574**	1,482
8:00 AM	**0**	**62**	**223**	**25**	**0**	**21**	**79**	**17**	**0**	**15**	**91**	**97**	**0**	**35**	**45**	**21**	**731**	2,001
8:15 AM	**0**	**56**	**111**	**8**	**0**	**25**	**101**	**28**	**0**	**13**	**96**	**53**	**0**	**34**	**76**	**35**	**636**	2,332
8:30 AM	**0**	**39**	**78**	**12**	**0**	**20**	**100**	**23**	**0**	**11**	**93**	**20**	**0**	**37**	**63**	**27**	**523**	**2,464**
8:45 AM	0	48	92	12	0	5	57	22	0	21	79	10	0	54	48	30	478	2,368
Count Total	0	345	761	119	0	127	519	138	1	96	608	293	0	245	397	201	3,850	0
Peak Hour All	**0**	**226**	**523**	**74**	**0**	**90**	**343**	**86**	**0**	**51**	**371**	**209**	**0**	**144**	**230**	**117**	**2,464**	**0**
Peak Hour HV	**0**	**4**	**7**	**4**	**0**	**5**	**4**	**0**	**0**	**5**	**5**	**7**	**0**	**1**	**1**	**1**	**44**	**0**
Peak Hour HV%	**-**	**2%**	**1%**	**5%**	**-**	**6%**	**1%**	**0%**	**-**	**10%**	**1%**	**3%**	**-**	**1%**	**0%**	**1%**	**2%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	2	3	4	3	*12*	0	0	0	0	*0*	0	0	0	0	*0*
7:15 AM	2	2	4	6	*14*	2	0	1	5	*8*	2	0	0	2	*4*
7:30 AM	3	2	4	3	*12*	0	0	1	0	*1*	0	0	0	3	*3*
7:45 AM	**4**	**3**	**4**	**0**	***11***	**1**	**0**	**1**	**0**	***2***	**1**	**0**	**0**	**1**	*2*
8:00 AM	**5**	**4**	**6**	**0**	***15***	**1**	**0**	**0**	**0**	***1***	**0**	**0**	**1**	**1**	*2*
8:15 AM	**4**	**0**	**3**	**2**	***9***	**0**	**1**	**1**	**1**	***3***	**1**	**1**	**2**	**0**	*4*
8:30 AM	**2**	**2**	**4**	**1**	***9***	**0**	**0**	**0**	**1**	***1***	**1**	**0**	**2**	**0**	***3***
8:45 AM	7	3	4	1	*15*	0	0	0	0	*0*	1	1	1	0	*3*
Count Total	29	19	33	16	*97*	4	1	4	7	*16*	6	2	6	7	*21*
Peak Hour	**15**	**9**	**17**	**3**	***44***	**2**	**1**	**2**	**2**	***7***	**3**	**1**	**5**	**2**	***11***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	Cedar Blvd Eastbound				Cedar Blvd Westbound				Central Ave Northbound				Central Ave Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	1	1	0	0	1	1	1	0	0	3	1	0	0	3	0	12	0
7:15 AM	0	1	1	0	0	1	0	1	0	3	1	0	0	2	2	2	14	0
7:30 AM	0	1	1	1	0	1	1	0	0	3	0	1	0	0	0	3	12	0
7:45 AM	**0**	**1**	**1**	**2**	**0**	**3**	**0**	**0**	**0**	**2**	**1**	**1**	**0**	**0**	**0**	**0**	**11**	49
8:00 AM	**0**	**0**	**3**	**2**	**0**	**1**	**3**	**0**	**0**	**1**	**2**	**3**	**0**	**0**	**0**	**0**	**15**	52
8:15 AM	**0**	**3**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**1**	**0**	**0**	**1**	**1**	**9**	47
8:30 AM	**0**	**0**	**2**	**0**	**0**	**1**	**1**	**0**	**0**	**1**	**1**	**2**	**0**	**1**	**0**	**0**	**9**	**44**
8:45 AM	0	2	2	3	0	1	2	0	0	2	1	1	0	0	1	0	15	48
Count Total	0	9	12	8	0	9	8	2	0	13	10	10	0	3	7	6	97	0
Peak Hour	**0**	**4**	**7**	**4**	**0**	**5**	**4**	**0**	**0**	**5**	**5**	**7**	**0**	**1**	**1**	**1**	**44**	**0**

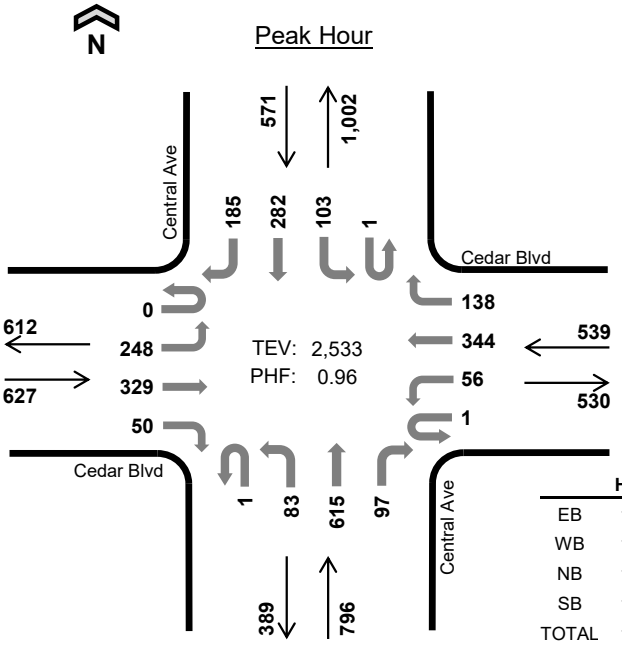
Two-Hour Count Summaries - Bikes

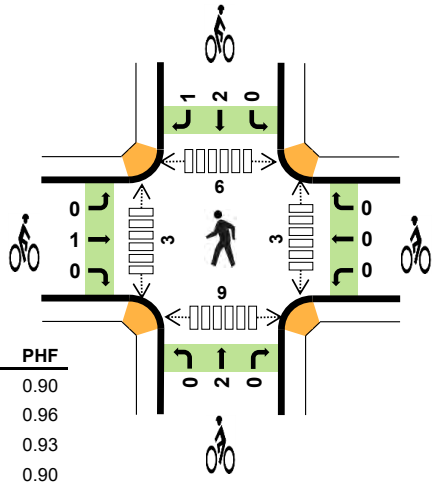
Interval Start	Cedar Blvd Eastbound			Cedar Blvd Westbound			Central Ave Northbound			Central Ave Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	2	0	0	0	0	0	1	0	0	5	0	8	0
7:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0
7:45 AM	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**2**	11
8:00 AM	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	12
8:15 AM	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**3**	7
8:30 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**7**
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Count Total	0	4	0	0	1	0	0	4	0	1	6	0	16	0
Peak Hour	**0**	**2**	**0**	**0**	**1**	**0**	**0**	**2**	**0**	**1**	**1**	**0**	**7**	**0**

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Central Ave
Cedar Blvd

Date: 09/20/2022
Count Period: 4:00 PM to 6:00 PM
Peak Hour: 4:45 PM to 5:45 PM





	HV %:	PHF
EB	1.3%	0.90
WB	1.3%	0.96
NB	1.8%	0.93
SB	1.2%	0.90
TOTAL	1.4%	0.96

Two-Hour Count Summaries

Interval Start	Cedar Blvd Eastbound				Cedar Blvd Westbound				Central Ave Northbound				Central Ave Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	47	67	11	0	15	71	26	0	25	135	15	1	19	43	39	514	0
4:15 PM	0	70	75	13	0	11	71	33	0	14	88	15	0	27	58	46	521	0
4:30 PM	0	46	65	7	1	14	80	29	0	35	143	18	0	24	72	43	577	0
4:45 PM	**0**	**52**	**78**	**12**	**1**	**16**	**92**	**28**	**0**	**21**	**152**	**17**	**0**	**29**	**56**	**50**	**604**	2,216
5:00 PM	**0**	**61**	**85**	**10**	**0**	**10**	**88**	**39**	**0**	**27**	**163**	**24**	**0**	**28**	**57**	**48**	**640**	2,342
5:15 PM	**0**	**65**	**73**	**16**	**0**	**11**	**76**	**38**	**1**	**20**	**137**	**33**	**1**	**19**	**91**	**47**	**628**	2,449
5:30 PM	**0**	**70**	**93**	**12**	**0**	**19**	**88**	**33**	**0**	**15**	**163**	**23**	**0**	**27**	**78**	**40**	**661**	**2,533**
5:45 PM	0	72	83	12	0	15	92	27	0	14	120	16	0	29	59	39	578	2,507
Count Total	0	483	619	93	2	111	658	253	1	171	1,101	161	2	202	514	352	4,723	0
Peak Hour All	**0**	**248**	**329**	**50**	**1**	**56**	**344**	**138**	**1**	**83**	**615**	**97**	**1**	**103**	**282**	**185**	**2,533**	**0**
Peak Hour HV	**0**	**3**	**5**	**0**	**0**	**4**	**3**	**0**	**0**	**3**	**7**	**4**	**0**	**0**	**5**	**2**	**36**	**0**
Peak Hour HV%	**-**	**1%**	**2%**	**0%**	**0%**	**7%**	**1%**	**0%**	**0%**	**4%**	**1%**	**4%**	**0%**	**0%**	**2%**	**1%**	**1%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	0	2	3	2	*7*	0	0	0	0	*0*	1	1	0	5	*7*
4:15 PM	1	1	2	2	*6*	0	0	1	0	*1*	1	0	0	1	*2*
4:30 PM	1	4	3	4	*12*	0	0	0	1	*1*	1	1	0	0	*2*
4:45 PM	**3**	**1**	**1**	**4**	***9***	**0**	**0**	**0**	**2**	***2***	**2**	**0**	**0**	**0**	*2*
5:00 PM	**4**	**4**	**4**	**2**	***14***	**0**	**0**	**1**	**0**	***1***	**1**	**1**	**0**	**5**	*7*
5:15 PM	**0**	**2**	**6**	**0**	***8***	**1**	**0**	**1**	**0**	***2***	**0**	**2**	**4**	**3**	*9*
5:30 PM	**1**	**0**	**3**	**1**	***5***	**0**	**0**	**0**	**1**	***1***	**0**	**0**	**2**	**1**	***3***
5:45 PM	3	4	1	1	*9*	0	0	0	2	*2*	1	0	0	3	*4*
Count Total	13	18	23	16	*70*	1	0	3	6	*10*	7	5	6	18	*36*
Peak Hour	**8**	**7**	**14**	**7**	***36***	**1**	**0**	**2**	**3**	***6***	**3**	**3**	**6**	**9**	***21***

Two-Hour Count Summaries - Heavy Vehicles

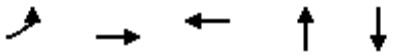
Interval Start	Cedar Blvd Eastbound				Cedar Blvd Westbound				Central Ave Northbound				Central Ave Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	0	0	0	0	1	1	0	0	1	0	2	0	1	1	0	7	0
4:15 PM	0	0	0	1	0	0	0	1	0	0	2	0	0	1	1	0	6	0
4:30 PM	0	0	1	0	0	2	1	1	0	1	1	1	0	0	4	0	12	0
4:45 PM	**0**	**2**	**1**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**2**	**2**	**9**	34
5:00 PM	**0**	**1**	**3**	**0**	**0**	**2**	**2**	**0**	**0**	**1**	**3**	**0**	**0**	**0**	**2**	**0**	**14**	41
5:15 PM	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**2**	**3**	**1**	**0**	**0**	**0**	**0**	**8**	43
5:30 PM	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**2**	**0**	**0**	**1**	**0**	**5**	**36**
5:45 PM	0	0	3	0	0	2	2	0	0	0	1	0	0	0	0	1	9	36
Count Total	0	3	9	1	0	9	7	2	0	5	11	7	0	2	11	3	70	0
Peak Hour	**0**	**3**	**5**	**0**	**0**	**4**	**3**	**0**	**0**	**3**	**7**	**4**	**0**	**0**	**5**	**2**	**36**	**0**

Two-Hour Count Summaries - Bikes

Interval Start	Cedar Blvd Eastbound			Cedar Blvd Westbound			Central Ave Northbound			Central Ave Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0
4:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**2**	4
5:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**	5
5:15 PM	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**2**	6
5:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	**6**
5:45 PM	0	0	0	0	0	0	0	0	0	0	1	1	2	6
Count Total	0	1	0	0	0	0	0	3	0	0	4	2	10	0
Peak Hour	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**2**	**1**	**6**	**0**

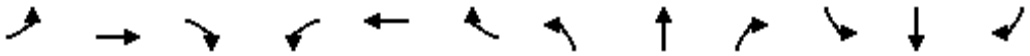
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Appendix C – Existing Conditions Intersections Level of Service Worksheets



Lane Group	EBL	EBT	WBT	NBT	SBT
Lane Group Flow (vph)	5	921	389	50	1
v/c Ratio	0.03	0.31	0.14	0.17	0.00
Control Delay	24.2	2.1	3.1	1.3	0.0
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	24.2	2.1	3.1	1.3	0.0
Queue Length 50th (ft)	2	38	13	0	0
Queue Length 95th (ft)	10	56	48	0	0
Internal Link Dist (ft)		1105	809	608	371
Turn Bay Length (ft)	100				
Base Capacity (vph)	325	2984	3003	760	926
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.02	0.31	0.13	0.07	0.00

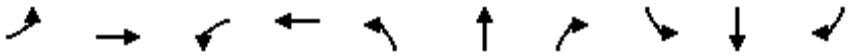
Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	884	37	0	388	1	38	0	12	0	0	1
Future Volume (vph)	5	884	37	0	388	1	38	0	12	0	0	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0			5.0			5.0	
Lane Util. Factor	1.00	0.95			0.95			1.00			1.00	
Frpb, ped/bikes	1.00	1.00			1.00			1.00			1.00	
Flpb, ped/bikes	1.00	1.00			1.00			1.00			1.00	
Frt	1.00	0.99			1.00			0.97			0.86	
Flt Protected	0.95	1.00			1.00			0.96			1.00	
Satd. Flow (prot)	1770	3513			3538			1736			1611	
Flt Permitted	0.95	1.00			1.00			1.00			1.00	
Satd. Flow (perm)	1770	3513			3538			1802			1611	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	5	884	37	0	388	1	38	0	12	0	0	1
RTOR Reduction (vph)	0	1	0	0	0	0	0	48	0	0	1	0
Lane Group Flow (vph)	5	920	0	0	389	0	0	2	0	0	0	0
Confl. Peds. (#/hr)			8			4						
Confl. Bikes (#/hr)			2			2						
Turn Type	Prot	NA		Prot	NA		Perm	NA			NA	
Protected Phases	5	2		1	6			4			4	
Permitted Phases							4			4		
Actuated Green, G (s)	1.0	48.3			42.3			2.6			2.6	
Effective Green, g (s)	1.0	48.3			42.3			2.6			2.6	
Actuated g/C Ratio	0.02	0.79			0.69			0.04			0.04	
Clearance Time (s)	5.0	5.0			5.0			5.0			5.0	
Vehicle Extension (s)	2.0	1.5			1.5			2.0			2.0	
Lane Grp Cap (vph)	29	2786			2457			76			68	
v/s Ratio Prot	0.00	c0.26			0.11						0.00	
v/s Ratio Perm								c0.00				
v/c Ratio	0.17	0.33			0.16			0.03			0.00	
Uniform Delay, d1	29.5	1.8			3.2			27.9			27.9	
Progression Factor	1.00	1.00			1.00			1.00			1.00	
Incremental Delay, d2	1.0	0.3			0.1			0.1			0.0	
Delay (s)	30.6	2.1			3.3			28.0			27.9	
Level of Service	C	A			A			C			C	
Approach Delay (s)		2.2			3.3			28.0			27.9	
Approach LOS		A			A			C			C	

Intersection Summary			
HCM 2000 Control Delay	3.5	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.35		
Actuated Cycle Length (s)	60.9	Sum of lost time (s)	15.0
Intersection Capacity Utilization	43.5%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	322	789	162	440	42	409	230	118	621	117
v/c Ratio	0.73	0.63	0.63	0.47	0.35	0.56	0.51	0.42	0.70	0.25
Control Delay	45.6	31.0	53.0	33.6	56.8	38.8	15.5	51.6	39.9	7.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	45.6	31.0	53.0	33.6	56.8	38.8	15.5	51.6	39.9	7.9
Queue Length 50th (ft)	188	217	98	116	26	121	34	37	191	1
Queue Length 95th (ft)	320	363	190	214	70	194	115	77	294	47
Internal Link Dist (ft)		863		1273		857			699	
Turn Bay Length (ft)	200		235		125		130	195		
Base Capacity (vph)	723	1252	814	1429	452	1446	733	1579	2206	1002
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.45	0.63	0.20	0.31	0.09	0.28	0.31	0.07	0.28	0.12

Intersection Summary

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	322	659	130	162	311	129	42	409	230	118	621	117
Future Volume (veh/h)	322	659	130	162	311	129	42	409	230	118	621	117
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		1.00	1.00		0.99	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	322	659	130	162	311	129	42	409	230	118	621	117
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	369	908	179	203	577	234	52	815	362	198	982	428
Arrive On Green	0.21	0.31	0.31	0.11	0.23	0.23	0.03	0.23	0.23	0.06	0.28	0.28
Sat Flow, veh/h	1781	2940	579	1781	2463	1000	1781	3554	1577	3456	3554	1548
Grp Volume(v), veh/h	322	398	391	162	222	218	42	409	230	118	621	117
Grp Sat Flow(s),veh/h/ln	1781	1777	1742	1781	1777	1686	1781	1777	1577	1728	1777	1548
Q Serve(g_s), s	12.2	13.9	13.9	6.2	7.6	7.9	1.6	7.0	9.2	2.3	10.7	4.1
Cycle Q Clear(g_c), s	12.2	13.9	13.9	6.2	7.6	7.9	1.6	7.0	9.2	2.3	10.7	4.1
Prop In Lane	1.00		0.33	1.00		0.59	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	369	549	538	203	417	395	52	815	362	198	982	428
V/C Ratio(X)	0.87	0.73	0.73	0.80	0.53	0.55	0.81	0.50	0.64	0.59	0.63	0.27
Avail Cap(c_a), veh/h	1024	894	877	1152	894	848	640	2043	907	2235	2043	890
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.7	21.4	21.4	30.0	23.3	23.4	33.6	23.3	24.2	32.0	22.1	19.7
Incr Delay (d2), s/veh	2.6	0.7	0.7	2.7	0.4	0.4	10.4	0.2	0.7	1.1	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.1	5.4	5.3	2.7	3.0	3.0	0.8	2.7	3.2	1.0	4.1	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	29.3	22.1	22.1	32.8	23.7	23.8	44.0	23.5	24.9	33.1	22.3	19.8
LnGrp LOS	C	C	C	C	C	C	D	C	C	C	C	B
Approach Vol, veh/h		1111			602			681			856	
Approach Delay, s/veh		24.2			26.2			25.2			23.5	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.8	21.3	12.7	26.8	5.5	24.5	17.9	21.6
Change Period (Y+Rc), s	4.8	* 5.3	4.8	* 5.3	3.5	5.3	3.5	5.3
Max Green Setting (Gmax), s	45.0	* 40	45.0	* 35	25.0	40.0	40.0	35.0
Max Q Clear Time (g_c+I1), s	4.3	11.2	8.2	15.9	3.6	12.7	14.2	9.9
Green Ext Time (p_c), s	0.1	1.5	0.1	2.3	0.0	2.2	0.3	1.2

Intersection Summary	
HCM 6th Ctrl Delay	24.6
HCM 6th LOS	C

Notes

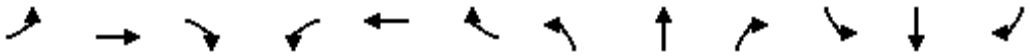
User approved pedestrian interval to be less than phase max green.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Lane Group	EBL	EBT	WBT	WBR	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	25	21	36	79	39	811	318	862
v/c Ratio	0.13	0.11	0.17	0.28	0.20	0.52	0.43	0.30
Control Delay	29.7	20.6	29.2	5.8	30.1	18.6	23.3	11.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	29.7	20.6	29.2	5.8	30.1	18.6	23.3	11.8
Queue Length 50th (ft)	8	3	12	0	13	90	52	82
Queue Length 95th (ft)	33	23	41	21	44	147	101	131
Internal Link Dist (ft)		422	383			699		992
Turn Bay Length (ft)					170		260	
Base Capacity (vph)	912	866	921	859	730	4111	2962	5066
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.03	0.02	0.04	0.09	0.05	0.20	0.11	0.17

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	25	8	13	31	5	79	39	764	47	318	844	18
Future Volume (vph)	25	8	13	31	5	79	39	764	47	318	844	18
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Lane Util. Factor	1.00	1.00			1.00	1.00	1.00	0.91		0.97	0.91	
Frpb, ped/bikes	1.00	0.99			1.00	0.99	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	0.91			1.00	0.85	1.00	0.99		1.00	1.00	
Flt Protected	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1674			1786	1563	1770	5037		3433	5067	
Flt Permitted	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1674			1786	1563	1770	5037		3433	5067	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	25	8	13	31	5	79	39	764	47	318	844	18
RTOR Reduction (vph)	0	12	0	0	0	73	0	4	0	0	1	0
Lane Group Flow (vph)	25	9	0	0	36	6	39	807	0	318	861	0
Confl. Peds. (#/hr)			5			2			4			5
Confl. Bikes (#/hr)												1
Turn Type	Split	NA		Split	NA	Perm	Prot	NA		Prot	NA	
Protected Phases	4	4		3	3		5	2		1	6	
Permitted Phases						3						
Actuated Green, G (s)	3.1	3.1			4.7	4.7	3.3	19.9		11.6	28.2	
Effective Green, g (s)	3.1	3.1			4.7	4.7	3.3	19.9		11.6	28.2	
Actuated g/C Ratio	0.05	0.05			0.08	0.08	0.06	0.33		0.19	0.47	
Clearance Time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Vehicle Extension (s)	2.0	2.0			2.0	2.0	1.5	2.0		2.0	2.0	
Lane Grp Cap (vph)	92	87			140	123	98	1681		668	2397	
v/s Ratio Prot	c0.01	0.01			c0.02		0.02	c0.16		c0.09	0.17	
v/s Ratio Perm						0.00						
v/c Ratio	0.27	0.10			0.26	0.05	0.40	0.48		0.48	0.36	
Uniform Delay, d1	27.2	26.9			25.8	25.4	27.2	15.7		21.3	10.0	
Progression Factor	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.6	0.2			0.4	0.1	1.0	0.1		0.2	0.0	
Delay (s)	27.7	27.1			26.2	25.4	28.2	15.8		21.5	10.0	
Level of Service	C	C			C	C	C	B		C	A	
Approach Delay (s)		27.5			25.7			16.4			13.1	
Approach LOS		C			C			B			B	

Intersection Summary			
HCM 2000 Control Delay	15.3	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.44		
Actuated Cycle Length (s)	59.6	Sum of lost time (s)	20.3
Intersection Capacity Utilization	49.5%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

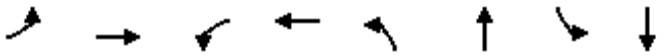
Intersection	
Int Delay, s/veh	1.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	901	88	13	427	61	34
Future Vol, veh/h	901	88	13	427	61	34
Conflicting Peds, #/hr	0	5	5	0	1	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	901	88	13	427	61	34

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	994	0	1191	500
Stage 1	-	-	-	-	950	-
Stage 2	-	-	-	-	241	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	692	-	180	516
Stage 1	-	-	-	-	336	-
Stage 2	-	-	-	-	776	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	689	-	174	514
Mov Cap-2 Maneuver	-	-	-	-	273	-
Stage 1	-	-	-	-	334	-
Stage 2	-	-	-	-	756	-

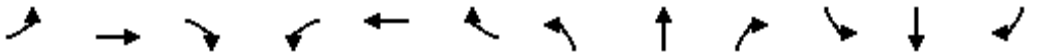
Approach	EB	WB	NB
HCM Control Delay, s	0	0.4	20.4
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	328	-	-	689	-
HCM Lane V/C Ratio	0.29	-	-	0.019	-
HCM Control Delay (s)	20.4	-	-	10.3	0.1
HCM Lane LOS	C	-	-	B	A
HCM 95th %tile Q(veh)	1.2	-	-	0.1	-



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	226	597	90	429	51	580	144	347
v/c Ratio	0.65	0.55	0.46	0.65	0.34	0.72	0.56	0.31
Control Delay	44.7	30.0	50.0	38.8	50.6	34.8	48.1	22.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	44.7	30.0	50.0	38.8	50.6	34.8	48.1	22.5
Queue Length 50th (ft)	113	144	47	108	27	135	74	65
Queue Length 95th (ft)	244	264	120	211	80	256	172	132
Internal Link Dist (ft)		1060		2431		769		1211
Turn Bay Length (ft)	125		120		180		130	
Base Capacity (vph)	826	2037	529	1444	635	1432	529	1288
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.27	0.29	0.17	0.30	0.08	0.41	0.27	0.27

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	226	523	74	90	343	86	51	371	209	144	230	117
Future Volume (veh/h)	226	523	74	90	343	86	51	371	209	144	230	117
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		0.98	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	226	523	74	90	343	86	51	371	209	144	230	117
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	278	868	122	117	527	130	64	510	282	185	692	339
Arrive On Green	0.16	0.28	0.28	0.07	0.19	0.19	0.04	0.23	0.23	0.10	0.30	0.30
Sat Flow, veh/h	1781	3120	440	1781	2811	694	1781	2190	1213	1781	2300	1126
Grp Volume(v), veh/h	226	297	300	90	215	214	51	300	280	144	176	171
Grp Sat Flow(s),veh/h/ln	1781	1777	1783	1781	1777	1728	1781	1777	1626	1781	1777	1649
Q Serve(g_s), s	7.7	9.1	9.2	3.1	7.0	7.2	1.8	9.8	10.0	4.9	4.8	5.1
Cycle Q Clear(g_c), s	7.7	9.1	9.2	3.1	7.0	7.2	1.8	9.8	10.0	4.9	4.8	5.1
Prop In Lane	1.00		0.25	1.00		0.40	1.00		0.75	1.00		0.68
Lane Grp Cap(c), veh/h	278	494	496	117	333	324	64	414	379	185	535	496
V/C Ratio(X)	0.81	0.60	0.61	0.77	0.64	0.66	0.80	0.72	0.74	0.78	0.33	0.35
Avail Cap(c_a), veh/h	1109	993	996	711	993	965	853	851	779	711	851	790
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	25.5	19.6	19.6	28.8	23.5	23.6	30.0	22.2	22.3	27.4	17.0	17.1
Incr Delay (d2), s/veh	2.2	0.4	0.4	4.0	0.8	0.9	8.1	0.9	1.1	2.6	0.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.2	3.4	3.5	1.4	2.7	2.7	0.9	3.8	3.6	2.1	1.8	1.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	27.7	20.0	20.1	32.7	24.3	24.5	38.1	23.1	23.3	30.0	17.1	17.2
LnGrp LOS	C	C	C	C	C	C	D	C	C	C	B	B
Approach Vol, veh/h		823			519			631			491	
Approach Delay, s/veh		22.2			25.8			24.4			20.9	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.1	22.4	11.5	19.6	14.8	16.7	7.3	23.9
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	25.0	35.0	25.0	30.0	39.0	35.0	30.0	30.0
Max Q Clear Time (g_c+I1), s	5.1	11.2	6.9	12.0	9.7	9.2	3.8	7.1
Green Ext Time (p_c), s	0.1	2.3	0.2	2.2	0.3	1.5	0.0	1.3

Intersection Summary	
HCM 6th Ctrl Delay	23.3
HCM 6th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.



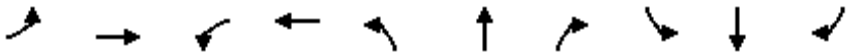
Lane Group	EBL	EBT	WBL	WBT	NBT	SBT
Lane Group Flow (vph)	1	457	1	508	37	10
v/c Ratio	0.01	0.16	0.01	0.18	0.13	0.04
Control Delay	24.0	3.0	24.0	3.1	0.9	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	24.0	3.0	24.0	3.1	0.9	0.3
Queue Length 50th (ft)	0	15	0	18	0	0
Queue Length 95th (ft)	4	54	4	61	0	0
Internal Link Dist (ft)		1105		809	608	371
Turn Bay Length (ft)	100		150			
Base Capacity (vph)	326	2851	651	3008	777	662
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.00	0.16	0.00	0.17	0.05	0.02

Intersection Summary

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	432	25	1	508	0	35	0	2	2	0	8
Future Volume (vph)	1	432	25	1	508	0	35	0	2	2	0	8
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0		5.0	5.0			5.0			5.0	
Lane Util. Factor	1.00	0.95		1.00	0.95			1.00			1.00	
Frpb, ped/bikes	1.00	1.00		1.00	1.00			1.00			1.00	
Flpb, ped/bikes	1.00	1.00		1.00	1.00			1.00			1.00	
Frt	1.00	0.99		1.00	1.00			0.99			0.89	
Flt Protected	0.95	1.00		0.95	1.00			0.95			0.99	
Satd. Flow (prot)	1770	3505		1770	3539			1764			1645	
Flt Permitted	0.95	1.00		0.95	1.00			1.00			0.92	
Satd. Flow (perm)	1770	3505		1770	3539			1847			1534	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	1	432	25	1	508	0	35	0	2	2	0	8
RTOR Reduction (vph)	0	2	0	0	0	0	0	35	0	0	10	0
Lane Group Flow (vph)	1	455	0	1	508	0	0	2	0	0	0	0
Confl. Peds. (#/hr)			3			2			1			
Confl. Bikes (#/hr)			2			1						
Turn Type	Prot	NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases	5	2		1	6			4			4	
Permitted Phases							4			4		
Actuated Green, G (s)	0.9	42.2		0.9	42.2			2.6			2.6	
Effective Green, g (s)	0.9	42.2		0.9	42.2			2.6			2.6	
Actuated g/C Ratio	0.01	0.70		0.01	0.70			0.04			0.04	
Clearance Time (s)	5.0	5.0		5.0	5.0			5.0			5.0	
Vehicle Extension (s)	2.0	1.5		2.0	1.5			2.0			2.0	
Lane Grp Cap (vph)	26	2436		26	2460			79			65	
v/s Ratio Prot	c0.00	0.13		0.00	c0.14							
v/s Ratio Perm								c0.00			0.00	
v/c Ratio	0.04	0.19		0.04	0.21			0.02			0.01	
Uniform Delay, d1	29.5	3.2		29.5	3.3			27.8			27.8	
Progression Factor	1.00	1.00		1.00	1.00			1.00			1.00	
Incremental Delay, d2	0.2	0.2		0.2	0.2			0.0			0.0	
Delay (s)	29.7	3.4		29.7	3.5			27.9			27.8	
Level of Service	C	A		C	A			C			C	
Approach Delay (s)		3.5			3.5			27.9			27.8	
Approach LOS		A			A			C			C	

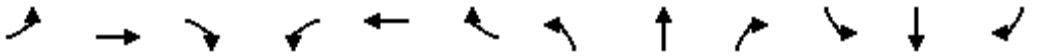
Intersection Summary			
HCM 2000 Control Delay	4.6	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.19		
Actuated Cycle Length (s)	60.7	Sum of lost time (s)	15.0
Intersection Capacity Utilization	36.6%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	258	296	146	476	113	662	123	213	407	239
v/c Ratio	0.68	0.33	0.57	0.68	0.54	0.70	0.25	0.52	0.41	0.40
Control Delay	48.2	31.3	52.9	41.3	55.5	38.3	9.3	49.4	32.4	6.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	48.2	31.3	52.9	41.3	55.5	38.3	9.3	49.4	32.4	6.5
Queue Length 50th (ft)	148	74	86	133	67	193	5	64	107	0
Queue Length 95th (ft)	298	145	189	246	156	334	55	131	200	63
Internal Link Dist (ft)		863		1273		857			699	
Turn Bay Length (ft)	200		235		125		130	195		
Base Capacity (vph)	758	1307	853	1491	474	1517	725	1656	2314	1097
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.34	0.23	0.17	0.32	0.24	0.44	0.17	0.13	0.18	0.22

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	258	247	49	146	327	149	113	662	123	213	407	239
Future Volume (veh/h)	258	247	49	146	327	149	113	662	123	213	407	239
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.97	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	258	247	49	146	327	149	113	662	123	213	407	239
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	304	751	146	185	486	216	145	956	422	311	1051	466
Arrive On Green	0.17	0.25	0.25	0.10	0.21	0.21	0.08	0.27	0.27	0.09	0.30	0.30
Sat Flow, veh/h	1781	2959	577	1781	2370	1055	1781	3554	1569	3456	3554	1577
Grp Volume(v), veh/h	258	147	149	146	243	233	113	662	123	213	407	239
Grp Sat Flow(s),veh/h/ln	1781	1777	1758	1781	1777	1647	1781	1777	1569	1728	1777	1577
Q Serve(g_s), s	10.0	4.8	4.9	5.7	9.0	9.3	4.4	11.9	4.4	4.3	6.5	9.0
Cycle Q Clear(g_c), s	10.0	4.8	4.9	5.7	9.0	9.3	4.4	11.9	4.4	4.3	6.5	9.0
Prop In Lane	1.00		0.33	1.00		0.64	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	304	451	446	185	365	338	145	956	422	311	1051	466
V/C Ratio(X)	0.85	0.33	0.33	0.79	0.67	0.69	0.78	0.69	0.29	0.69	0.39	0.51
Avail Cap(c_a), veh/h	1000	873	864	1125	873	809	625	1995	881	2183	1995	885
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.7	21.6	21.7	31.2	26.1	26.2	32.1	23.4	20.6	31.4	19.9	20.8
Incr Delay (d2), s/veh	2.6	0.2	0.2	2.9	0.8	0.9	3.4	0.3	0.1	1.0	0.1	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.2	1.9	1.9	2.5	3.6	3.5	2.0	4.7	1.5	1.7	2.5	3.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	31.2	21.8	21.8	34.0	26.9	27.1	35.4	23.7	20.8	32.4	20.0	21.1
LnGrp LOS	C	C	C	C	C	C	D	C	C	C	C	C
Approach Vol, veh/h		554			622			898			859	
Approach Delay, s/veh		26.2			28.7			24.8			23.4	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.2	24.5	12.2	23.4	9.3	26.4	15.6	19.9
Change Period (Y+Rc), s	4.8	* 5.3	4.8	* 5.3	3.5	5.3	3.5	5.3
Max Green Setting (Gmax), s	45.0	* 40	45.0	* 35	25.0	40.0	40.0	35.0
Max Q Clear Time (g_c+I1), s	6.3	13.9	7.7	6.9	6.4	11.0	12.0	11.3
Green Ext Time (p_c), s	0.2	2.4	0.1	0.8	0.1	1.5	0.2	1.4

Intersection Summary	
HCM 6th Ctrl Delay	25.5
HCM 6th LOS	C

Notes

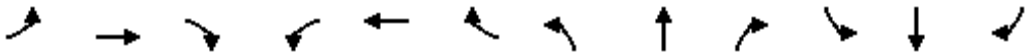
User approved pedestrian interval to be less than phase max green.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Lane Group	EBL	EBT	WBT	WBR	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	48	36	67	196	62	1021	318	812
v/c Ratio	0.26	0.18	0.32	0.55	0.33	0.65	0.50	0.37
Control Delay	36.1	18.3	35.9	12.3	37.1	22.8	29.8	15.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	36.1	18.3	35.9	12.3	37.1	22.8	29.8	15.4
Queue Length 50th (ft)	19	3	26	0	24	131	61	87
Queue Length 95th (ft)	58	31	74	60	71	215	121	145
Internal Link Dist (ft)		422	383			699		992
Turn Bay Length (ft)					170		260	
Base Capacity (vph)	427	417	723	744	569	3510	2594	4900
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.11	0.09	0.09	0.26	0.11	0.29	0.12	0.17

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	48	7	29	48	19	196	62	932	89	318	795	17
Future Volume (vph)	48	7	29	48	19	196	62	932	89	318	795	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Lane Util. Factor	1.00	1.00			1.00	1.00	1.00	0.91		0.97	0.91	
Frpb, ped/bikes	1.00	1.00			1.00	0.99	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	0.88			1.00	0.85	1.00	0.99		1.00	1.00	
Flt Protected	0.95	1.00			0.97	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1638			1798	1562	1770	5011		3433	5067	
Flt Permitted	0.95	1.00			0.97	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1638			1798	1562	1770	5011		3433	5067	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	48	7	29	48	19	196	62	932	89	318	795	17
RTOR Reduction (vph)	0	27	0	0	0	174	0	7	0	0	2	0
Lane Group Flow (vph)	48	9	0	0	67	22	62	1014	0	318	810	0
Confl. Peds. (#/hr)						2			6			1
Confl. Bikes (#/hr)									1			
Turn Type	Split	NA		Split	NA	Perm	Prot	NA		Prot	NA	
Protected Phases	4	4		3	3		5	2		1	6	
Permitted Phases						3						
Actuated Green, G (s)	5.5	5.5			7.8	7.8	5.7	22.5		12.4	29.2	
Effective Green, g (s)	5.5	5.5			7.8	7.8	5.7	22.5		12.4	29.2	
Actuated g/C Ratio	0.08	0.08			0.11	0.11	0.08	0.33		0.18	0.43	
Clearance Time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Vehicle Extension (s)	2.0	2.0			2.0	2.0	1.5	2.0		2.0	2.0	
Lane Grp Cap (vph)	142	131			204	177	147	1645		621	2159	
v/s Ratio Prot	c0.03	0.01			c0.04		0.04	c0.20		c0.09	0.16	
v/s Ratio Perm						0.01						
v/c Ratio	0.34	0.07			0.33	0.13	0.42	0.62		0.51	0.38	
Uniform Delay, d1	29.8	29.1			27.9	27.3	29.8	19.4		25.3	13.4	
Progression Factor	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.5	0.1			0.3	0.1	0.7	0.5		0.3	0.0	
Delay (s)	30.3	29.2			28.3	27.4	30.5	19.9		25.6	13.5	
Level of Service	C	C			C	C	C	B		C	B	
Approach Delay (s)		29.8			27.6			20.5			16.9	
Approach LOS		C			C			C			B	

Intersection Summary			
HCM 2000 Control Delay	19.9	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.51		
Actuated Cycle Length (s)	68.5	Sum of lost time (s)	20.3
Intersection Capacity Utilization	53.7%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

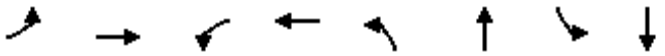
Intersection	
Int Delay, s/veh	0.8

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations							
Traffic Vol, veh/h	1	446	53	18	530	36	17
Future Vol, veh/h	1	446	53	18	530	36	17
Conflicting Peds, #/hr	0	0	2	2	0	0	0
Sign Control	Free	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0	-
Veh in Median Storage, #	-	0	-	-	0	1	-
Grade, %	-	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100	100
Heavy Vehicles, %	2	2	2	2	2	2	2
Mvmt Flow	1	446	53	18	530	36	17

Major/Minor	Major1			Major2		Minor1	
Conflicting Flow All	530	0	0	501	0	778	252
Stage 1	-	-	-	-	-	477	-
Stage 2	-	-	-	-	-	301	-
Critical Hdwy	6.44	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	-	5.84	-
Follow-up Hdwy	2.52	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	663	-	-	1059	-	333	748
Stage 1	-	-	-	-	-	590	-
Stage 2	-	-	-	-	-	725	-
Platoon blocked, %		-	-		-		
Mov Cap-1 Maneuver	663	-	-	1057	-	324	747
Mov Cap-2 Maneuver	-	-	-	-	-	438	-
Stage 1	-	-	-	-	-	588	-
Stage 2	-	-	-	-	-	708	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.4	13
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	505	-	-	1057	-
HCM Lane V/C Ratio	0.105	-	-	0.017	-
HCM Control Delay (s)	13	0	-	8.5	0.1
HCM Lane LOS	B	A	-	A	A
HCM 95th %tile Q(veh)	0.3	-	-	0.1	-



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	248	379	57	482	84	712	104	467
v/c Ratio	0.70	0.32	0.38	0.70	0.47	0.76	0.52	0.43
Control Delay	48.5	25.2	54.2	40.5	54.1	39.0	53.7	25.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	48.5	25.2	54.2	40.5	54.1	39.0	53.7	25.0
Queue Length 50th (ft)	141	90	33	134	49	198	60	95
Queue Length 95th (ft)	266	150	87	228	116	#358	136	190
Internal Link Dist (ft)		1060		2431		769		1211
Turn Bay Length (ft)	125		120		180		130	
Base Capacity (vph)	758	1866	486	1316	583	1336	486	1165
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.33	0.20	0.12	0.37	0.14	0.53	0.21	0.40

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	248	329	50	57	344	138	84	615	97	104	282	185
Future Volume (veh/h)	248	329	50	57	344	138	84	615	97	104	282	185
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.99	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	248	329	50	57	344	138	84	615	97	104	282	185
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	298	1027	154	73	512	202	109	796	125	135	567	360
Arrive On Green	0.17	0.33	0.33	0.04	0.21	0.21	0.06	0.26	0.26	0.08	0.27	0.27
Sat Flow, veh/h	1781	3088	464	1781	2483	978	1781	3068	483	1781	2070	1314
Grp Volume(v), veh/h	248	188	191	57	244	238	84	356	356	104	241	226
Grp Sat Flow(s),veh/h/ln	1781	1777	1775	1781	1777	1684	1781	1777	1774	1781	1777	1607
Q Serve(g_s), s	9.3	5.4	5.5	2.2	8.7	9.0	3.2	12.7	12.8	3.9	7.8	8.2
Cycle Q Clear(g_c), s	9.3	5.4	5.5	2.2	8.7	9.0	3.2	12.7	12.8	3.9	7.8	8.2
Prop In Lane	1.00		0.26	1.00		0.58	1.00		0.27	1.00		0.82
Lane Grp Cap(c), veh/h	298	591	591	73	366	347	109	461	460	135	487	440
V/C Ratio(X)	0.83	0.32	0.32	0.78	0.67	0.68	0.77	0.77	0.77	0.77	0.49	0.51
Avail Cap(c_a), veh/h	1011	905	904	648	905	858	778	776	775	648	776	702
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.7	17.1	17.1	32.6	25.1	25.2	31.8	23.6	23.6	31.1	20.9	21.1
Incr Delay (d2), s/veh	2.3	0.1	0.1	6.7	0.8	0.9	4.2	1.0	1.1	3.4	0.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	2.1	2.1	1.0	3.6	3.5	1.5	5.1	5.1	1.8	3.1	2.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.0	17.2	17.3	39.4	25.9	26.1	35.9	24.6	24.6	34.6	21.2	21.4
LnGrp LOS	C	B	B	D	C	C	D	C	C	C	C	C
Approach Vol, veh/h		627			539			796			571	
Approach Delay, s/veh		22.3			27.4			25.8			23.7	
Approach LOS		C			C			C			C	

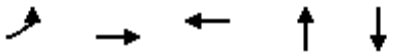
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.8	27.9	10.2	22.8	16.5	19.2	9.2	23.8
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	25.0	35.0	25.0	30.0	39.0	35.0	30.0	30.0
Max Q Clear Time (g_c+I1), s	4.2	7.5	5.9	14.8	11.3	11.0	5.2	10.2
Green Ext Time (p_c), s	0.1	1.5	0.1	2.7	0.3	1.9	0.1	1.8

Intersection Summary	
HCM 6th Ctrl Delay	24.8
HCM 6th LOS	C

Notes

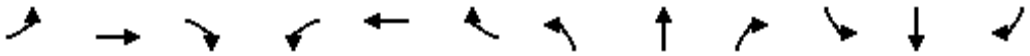
User approved pedestrian interval to be less than phase max green.

Appendix D – Existing plus Project Conditions Intersections Level of Service Worksheets



Lane Group	EBL	EBT	WBT	NBT	SBT
Lane Group Flow (vph)	5	921	395	50	26
v/c Ratio	0.03	0.31	0.14	0.17	0.09
Control Delay	23.2	2.2	3.1	1.3	0.6
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	23.2	2.2	3.1	1.3	0.6
Queue Length 50th (ft)	2	38	13	0	0
Queue Length 95th (ft)	10	56	48	0	0
Internal Link Dist (ft)		1105	809	608	371
Turn Bay Length (ft)	100				
Base Capacity (vph)	333	2962	2995	774	785
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.02	0.31	0.13	0.06	0.03

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	884	37	0	388	7	38	0	12	23	0	3
Future Volume (vph)	5	884	37	0	388	7	38	0	12	23	0	3
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0			5.0			5.0	
Lane Util. Factor	1.00	0.95			0.95			1.00			1.00	
Frpb, ped/bikes	1.00	1.00			1.00			1.00			1.00	
Flpb, ped/bikes	1.00	1.00			1.00			1.00			1.00	
Frt	1.00	0.99			1.00			0.97			0.98	
Flt Protected	0.95	1.00			1.00			0.96			0.96	
Satd. Flow (prot)	1770	3513			3528			1736			1756	
Flt Permitted	0.95	1.00			1.00			1.00			1.00	
Satd. Flow (perm)	1770	3513			3528			1802			1834	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	5	884	37	0	388	7	38	0	12	23	0	3
RTOR Reduction (vph)	0	1	0	0	1	0	0	48	0	0	25	0
Lane Group Flow (vph)	5	920	0	0	394	0	0	2	0	0	1	0
Confl. Peds. (#/hr)			8			4						
Confl. Bikes (#/hr)			2			2						
Turn Type	Prot	NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases	5	2		1	6			4			4	
Permitted Phases							4			4		
Actuated Green, G (s)	1.0	46.9			40.9			2.6			2.6	
Effective Green, g (s)	1.0	46.9			40.9			2.6			2.6	
Actuated g/C Ratio	0.02	0.79			0.69			0.04			0.04	
Clearance Time (s)	5.0	5.0			5.0			5.0			5.0	
Vehicle Extension (s)	2.0	1.5			1.5			2.0			2.0	
Lane Grp Cap (vph)	29	2769			2425			78			80	
v/s Ratio Prot	0.00	c0.26			0.11							
v/s Ratio Perm								c0.00			0.00	
v/c Ratio	0.17	0.33			0.16			0.03			0.01	
Uniform Delay, d1	28.8	1.8			3.3			27.2			27.2	
Progression Factor	1.00	1.00			1.00			1.00			1.00	
Incremental Delay, d2	1.0	0.3			0.1			0.1			0.0	
Delay (s)	29.9	2.1			3.4			27.3			27.2	
Level of Service	C	A			A			C			C	
Approach Delay (s)		2.3			3.4			27.3			27.2	
Approach LOS		A			A			C			C	

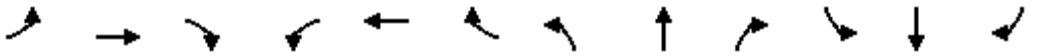
Intersection Summary			
HCM 2000 Control Delay	4.0	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.35		
Actuated Cycle Length (s)	59.5	Sum of lost time (s)	15.0
Intersection Capacity Utilization	37.3%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	342	792	162	441	42	409	230	118	621	122
v/c Ratio	0.71	0.63	0.63	0.51	0.35	0.55	0.51	0.43	0.70	0.26
Control Delay	42.7	31.0	53.7	36.0	57.7	39.2	15.7	52.4	40.3	8.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	42.7	31.0	53.7	36.0	57.7	39.2	15.7	52.4	40.3	8.0
Queue Length 50th (ft)	195	220	98	122	26	121	34	37	192	1
Queue Length 95th (ft)	341	363	194	219	71	199	117	79	302	48
Internal Link Dist (ft)		863		1273		857			699	
Turn Bay Length (ft)	200		235		125		130	195		
Base Capacity (vph)	717	1259	807	1418	448	1435	728	1566	2189	997
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.48	0.63	0.20	0.31	0.09	0.29	0.32	0.08	0.28	0.12

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	342	661	131	162	312	129	42	409	230	118	621	122
Future Volume (veh/h)	342	661	131	162	312	129	42	409	230	118	621	122
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		1.00	1.00		0.99	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	342	661	131	162	312	129	42	409	230	118	621	122
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	389	909	180	203	552	223	52	815	361	198	981	427
Arrive On Green	0.22	0.31	0.31	0.11	0.22	0.22	0.03	0.23	0.23	0.06	0.28	0.28
Sat Flow, veh/h	1781	2937	581	1781	2465	998	1781	3554	1577	3456	3554	1548
Grp Volume(v), veh/h	342	399	393	162	223	218	42	409	230	118	621	122
Grp Sat Flow(s),veh/h/ln	1781	1777	1742	1781	1777	1686	1781	1777	1577	1728	1777	1548
Q Serve(g_s), s	12.9	14.0	14.0	6.2	7.8	8.0	1.6	7.0	9.2	2.3	10.7	4.3
Cycle Q Clear(g_c), s	12.9	14.0	14.0	6.2	7.8	8.0	1.6	7.0	9.2	2.3	10.7	4.3
Prop In Lane	1.00		0.33	1.00		0.59	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	389	550	539	203	398	377	52	815	361	198	981	427
V/C Ratio(X)	0.88	0.73	0.73	0.80	0.56	0.58	0.81	0.50	0.64	0.59	0.63	0.29
Avail Cap(c_a), veh/h	1023	893	875	1150	893	847	639	2040	905	2232	2040	889
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.4	21.4	21.4	30.1	24.0	24.1	33.6	23.4	24.2	32.0	22.1	19.8
Incr Delay (d2), s/veh	2.6	0.7	0.7	2.7	0.5	0.5	10.4	0.2	0.7	1.1	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.4	5.4	5.3	2.7	3.1	3.0	0.8	2.8	3.2	1.0	4.1	1.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.9	22.1	22.2	32.8	24.5	24.6	44.0	23.6	24.9	33.1	22.4	20.0
LnGrp LOS	C	C	C	C	C	C	D	C	C	C	C	B
Approach Vol, veh/h		1134			603			681			861	
Approach Delay, s/veh		24.2			26.8			25.3			23.5	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.8	21.3	12.7	26.9	5.5	24.5	18.7	20.9
Change Period (Y+Rc), s	4.8	* 5.3	4.8	* 5.3	3.5	5.3	3.5	5.3
Max Green Setting (Gmax), s	45.0	* 40	45.0	* 35	25.0	40.0	40.0	35.0
Max Q Clear Time (g_c+I1), s	4.3	11.2	8.2	16.0	3.6	12.7	14.9	10.0
Green Ext Time (p_c), s	0.1	1.5	0.1	2.3	0.0	2.2	0.3	1.2

Intersection Summary	
HCM 6th Ctrl Delay	24.7
HCM 6th LOS	C

Notes

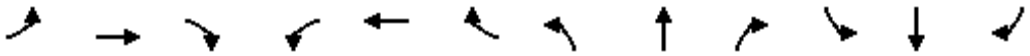
User approved pedestrian interval to be less than phase max green.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Lane Group	EBL	EBT	WBT	WBR	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	25	21	36	79	39	831	318	867
v/c Ratio	0.13	0.11	0.17	0.28	0.20	0.52	0.43	0.31
Control Delay	29.9	20.8	29.5	5.9	30.3	18.7	23.5	11.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	29.9	20.8	29.5	5.9	30.3	18.7	23.5	11.8
Queue Length 50th (ft)	8	3	12	0	13	93	52	83
Queue Length 95th (ft)	33	23	41	21	44	152	101	132
Internal Link Dist (ft)		422	383			699		992
Turn Bay Length (ft)					170		260	
Base Capacity (vph)	905	859	913	853	724	4098	2949	5066
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.03	0.02	0.04	0.09	0.05	0.20	0.11	0.17

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	25	8	13	31	5	79	39	784	47	318	849	18
Future Volume (vph)	25	8	13	31	5	79	39	784	47	318	849	18
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Lane Util. Factor	1.00	1.00			1.00	1.00	1.00	0.91		0.97	0.91	
Frpb, ped/bikes	1.00	0.99			1.00	0.99	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	0.91			1.00	0.85	1.00	0.99		1.00	1.00	
Flt Protected	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1674			1786	1563	1770	5038		3433	5067	
Flt Permitted	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1674			1786	1563	1770	5038		3433	5067	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	25	8	13	31	5	79	39	784	47	318	849	18
RTOR Reduction (vph)	0	12	0	0	0	73	0	3	0	0	1	0
Lane Group Flow (vph)	25	9	0	0	36	6	39	828	0	318	866	0
Confl. Peds. (#/hr)			5			2			4			5
Confl. Bikes (#/hr)												1
Turn Type	Split	NA		Split	NA	Perm	Prot	NA		Prot	NA	
Protected Phases	4	4		3	3		5	2		1	6	
Permitted Phases						3						
Actuated Green, G (s)	3.1	3.1			4.8	4.8	3.3	20.1		11.7	28.5	
Effective Green, g (s)	3.1	3.1			4.8	4.8	3.3	20.1		11.7	28.5	
Actuated g/C Ratio	0.05	0.05			0.08	0.08	0.05	0.34		0.19	0.48	
Clearance Time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Vehicle Extension (s)	2.0	2.0			2.0	2.0	1.5	2.0		2.0	2.0	
Lane Grp Cap (vph)	91	86			142	125	97	1687		669	2406	
v/s Ratio Prot	c0.01	0.01			c0.02		0.02	c0.16		c0.09	0.17	
v/s Ratio Perm						0.00						
v/c Ratio	0.27	0.10			0.25	0.05	0.40	0.49		0.48	0.36	
Uniform Delay, d1	27.4	27.1			25.9	25.5	27.4	15.9		21.4	10.0	
Progression Factor	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.6	0.2			0.3	0.1	1.0	0.1		0.2	0.0	
Delay (s)	28.0	27.3			26.3	25.6	28.4	16.0		21.6	10.0	
Level of Service	C	C			C	C	C	B		C	B	
Approach Delay (s)		27.7			25.8			16.5			13.1	
Approach LOS		C			C			B			B	

Intersection Summary			
HCM 2000 Control Delay	15.4	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.44		
Actuated Cycle Length (s)	60.0	Sum of lost time (s)	20.3
Intersection Capacity Utilization	49.9%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

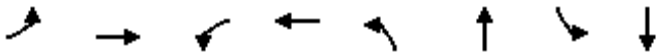
Intersection	
Int Delay, s/veh	1.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	901	88	13	429	61	34
Future Vol, veh/h	901	88	13	429	61	34
Conflicting Peds, #/hr	0	5	5	0	1	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	901	88	13	429	61	34

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	994	0	1192	500
Stage 1	-	-	-	-	950	-
Stage 2	-	-	-	-	242	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	692	-	180	516
Stage 1	-	-	-	-	336	-
Stage 2	-	-	-	-	776	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	689	-	174	514
Mov Cap-2 Maneuver	-	-	-	-	273	-
Stage 1	-	-	-	-	334	-
Stage 2	-	-	-	-	756	-

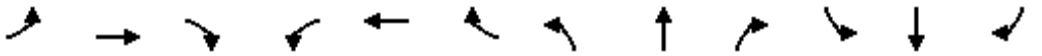
Approach	EB	WB	NB
HCM Control Delay, s	0	0.4	20.4
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	328	-	-	689	-
HCM Lane V/C Ratio	0.29	-	-	0.019	-
HCM Control Delay (s)	20.4	-	-	10.3	0.1
HCM Lane LOS	C	-	-	B	A
HCM 95th %tile Q(veh)	1.2	-	-	0.1	-



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	226	597	92	429	51	580	144	347
v/c Ratio	0.65	0.55	0.46	0.65	0.34	0.72	0.56	0.31
Control Delay	44.7	30.1	50.0	38.8	50.6	34.8	48.1	22.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	44.7	30.1	50.0	38.8	50.6	34.8	48.1	22.5
Queue Length 50th (ft)	113	145	48	108	27	135	74	65
Queue Length 95th (ft)	244	265	122	211	80	256	172	132
Internal Link Dist (ft)		1060		2431		769		1211
Turn Bay Length (ft)	125		120		180		130	
Base Capacity (vph)	826	2037	529	1444	635	1432	529	1288
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.27	0.29	0.17	0.30	0.08	0.41	0.27	0.27

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	226	523	74	92	343	86	51	371	209	144	230	117
Future Volume (veh/h)	226	523	74	92	343	86	51	371	209	144	230	117
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		0.98	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	226	523	74	92	343	86	51	371	209	144	230	117
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	278	863	122	120	527	130	64	510	282	185	692	339
Arrive On Green	0.16	0.28	0.28	0.07	0.19	0.19	0.04	0.23	0.23	0.10	0.30	0.30
Sat Flow, veh/h	1781	3120	440	1781	2811	694	1781	2190	1213	1781	2300	1126
Grp Volume(v), veh/h	226	297	300	92	215	214	51	300	280	144	176	171
Grp Sat Flow(s),veh/h/ln	1781	1777	1783	1781	1777	1728	1781	1777	1626	1781	1777	1649
Q Serve(g_s), s	7.7	9.1	9.2	3.2	7.0	7.2	1.8	9.8	10.0	4.9	4.8	5.1
Cycle Q Clear(g_c), s	7.7	9.1	9.2	3.2	7.0	7.2	1.8	9.8	10.0	4.9	4.8	5.1
Prop In Lane	1.00		0.25	1.00		0.40	1.00		0.75	1.00		0.68
Lane Grp Cap(c), veh/h	278	491	493	120	333	324	64	414	379	185	535	496
V/C Ratio(X)	0.81	0.60	0.61	0.77	0.64	0.66	0.80	0.72	0.74	0.78	0.33	0.35
Avail Cap(c_a), veh/h	1109	993	996	711	993	965	853	851	779	711	851	790
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	25.5	19.7	19.7	28.7	23.5	23.6	30.0	22.2	22.3	27.4	17.0	17.1
Incr Delay (d2), s/veh	2.2	0.4	0.5	3.9	0.8	0.9	8.1	0.9	1.1	2.6	0.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.2	3.4	3.5	1.4	2.7	2.7	0.9	3.8	3.6	2.1	1.8	1.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	27.7	20.1	20.2	32.6	24.3	24.5	38.1	23.1	23.3	30.0	17.1	17.2
LnGrp LOS	C	C	C	C	C	C	D	C	C	C	B	B
Approach Vol, veh/h		823			521			631			491	
Approach Delay, s/veh		22.2			25.8			24.4			20.9	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.2	22.3	11.5	19.6	14.8	16.7	7.3	23.9
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	25.0	35.0	25.0	30.0	39.0	35.0	30.0	30.0
Max Q Clear Time (g_c+I1), s	5.2	11.2	6.9	12.0	9.7	9.2	3.8	7.1
Green Ext Time (p_c), s	0.1	2.3	0.2	2.2	0.3	1.5	0.0	1.3

Intersection Summary	
HCM 6th Ctrl Delay	23.3
HCM 6th LOS	C

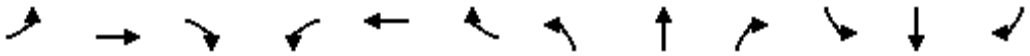
Notes

User approved pedestrian interval to be less than phase max green.



Lane Group	EBL	EBT	WBL	WBT	NBT	SBT
Lane Group Flow (vph)	3	457	1	530	37	19
v/c Ratio	0.02	0.16	0.01	0.19	0.13	0.07
Control Delay	23.7	3.0	24.0	3.1	0.9	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	23.7	3.0	24.0	3.1	0.9	0.4
Queue Length 50th (ft)	1	15	0	19	0	0
Queue Length 95th (ft)	7	54	4	64	0	0
Internal Link Dist (ft)		1105		809	608	371
Turn Bay Length (ft)	100		150			
Base Capacity (vph)	327	2847	655	2979	781	742
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.01	0.16	0.00	0.18	0.05	0.03

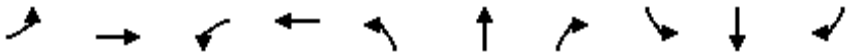
Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	3	432	25	1	508	22	35	0	2	10	0	9
Future Volume (vph)	3	432	25	1	508	22	35	0	2	10	0	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0		5.0	5.0			5.0			5.0	
Lane Util. Factor	1.00	0.95		1.00	0.95			1.00			1.00	
Frpb, ped/bikes	1.00	1.00		1.00	1.00			1.00			1.00	
Flpb, ped/bikes	1.00	1.00		1.00	1.00			1.00			1.00	
Frt	1.00	0.99		1.00	0.99			0.99			0.94	
Flt Protected	0.95	1.00		0.95	1.00			0.95			0.97	
Satd. Flow (prot)	1770	3505		1770	3514			1764			1699	
Flt Permitted	0.95	1.00		0.95	1.00			1.00			1.00	
Satd. Flow (perm)	1770	3505		1770	3514			1847			1744	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	3	432	25	1	508	22	35	0	2	10	0	9
RTOR Reduction (vph)	0	2	0	0	2	0	0	35	0	0	18	0
Lane Group Flow (vph)	3	455	0	1	528	0	0	2	0	0	1	0
Confl. Peds. (#/hr)			3			2			1			
Confl. Bikes (#/hr)			2			1						
Turn Type	Prot	NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases	5	2		1	6			4			4	
Permitted Phases							4			4		
Actuated Green, G (s)	1.0	42.0		0.9	41.9			2.6			2.6	
Effective Green, g (s)	1.0	42.0		0.9	41.9			2.6			2.6	
Actuated g/C Ratio	0.02	0.69		0.01	0.69			0.04			0.04	
Clearance Time (s)	5.0	5.0		5.0	5.0			5.0			5.0	
Vehicle Extension (s)	2.0	1.5		2.0	1.5			2.0			2.0	
Lane Grp Cap (vph)	29	2433		26	2433			79			74	
v/s Ratio Prot	c0.00	0.13		0.00	c0.15							
v/s Ratio Perm								c0.00			0.00	
v/c Ratio	0.10	0.19		0.04	0.22			0.02			0.01	
Uniform Delay, d1	29.3	3.3		29.4	3.4			27.7			27.7	
Progression Factor	1.00	1.00		1.00	1.00			1.00			1.00	
Incremental Delay, d2	0.6	0.2		0.2	0.2			0.0			0.0	
Delay (s)	29.9	3.4		29.6	3.6			27.8			27.7	
Level of Service	C	A		C	A			C			C	
Approach Delay (s)		3.6			3.6			27.8			27.7	
Approach LOS		A			A			C			C	

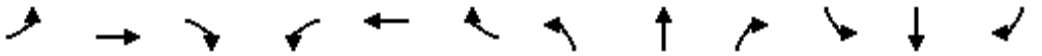
Intersection Summary			
HCM 2000 Control Delay	4.9	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.20		
Actuated Cycle Length (s)	60.5	Sum of lost time (s)	15.0
Intersection Capacity Utilization	32.5%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	265	297	146	479	114	662	123	213	407	257
v/c Ratio	0.69	0.32	0.58	0.69	0.54	0.70	0.25	0.53	0.42	0.42
Control Delay	48.5	31.2	53.7	41.8	56.1	38.8	9.3	50.1	32.9	6.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	48.5	31.2	53.7	41.8	56.1	38.8	9.3	50.1	32.9	6.5
Queue Length 50th (ft)	154	75	87	136	68	196	5	65	109	0
Queue Length 95th (ft)	305	145	191	251	159	337	55	133	202	66
Internal Link Dist (ft)		863		1273		857			699	
Turn Bay Length (ft)	200		235		125		130	195		
Base Capacity (vph)	750	1297	844	1474	468	1500	718	1637	2287	1094
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.35	0.23	0.17	0.32	0.24	0.44	0.17	0.13	0.18	0.23

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	265	248	49	146	330	149	114	662	123	213	407	257
Future Volume (veh/h)	265	248	49	146	330	149	114	662	123	213	407	257
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.97	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	265	248	49	146	330	149	114	662	123	213	407	257
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	310	764	148	184	488	215	146	954	421	310	1044	463
Arrive On Green	0.17	0.26	0.26	0.10	0.21	0.21	0.08	0.27	0.27	0.09	0.29	0.29
Sat Flow, veh/h	1781	2961	575	1781	2377	1049	1781	3554	1569	3456	3554	1577
Grp Volume(v), veh/h	265	147	150	146	245	234	114	662	123	213	407	257
Grp Sat Flow(s),veh/h/ln	1781	1777	1759	1781	1777	1649	1781	1777	1569	1728	1777	1577
Q Serve(g_s), s	10.4	4.8	5.0	5.8	9.1	9.5	4.5	12.1	4.5	4.3	6.6	9.9
Cycle Q Clear(g_c), s	10.4	4.8	5.0	5.8	9.1	9.5	4.5	12.1	4.5	4.3	6.6	9.9
Prop In Lane	1.00		0.33	1.00		0.64	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	310	458	454	184	365	339	146	954	421	310	1044	463
V/C Ratio(X)	0.85	0.32	0.33	0.79	0.67	0.69	0.78	0.69	0.29	0.69	0.39	0.55
Avail Cap(c_a), veh/h	989	863	855	1113	863	801	618	1974	871	2159	1974	876
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.9	21.6	21.7	31.5	26.4	26.5	32.4	23.7	20.9	31.8	20.3	21.5
Incr Delay (d2), s/veh	2.6	0.1	0.2	2.9	0.8	0.9	3.3	0.3	0.1	1.0	0.1	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.4	1.9	1.9	2.5	3.7	3.6	2.0	4.7	1.6	1.8	2.5	3.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	31.5	21.8	21.8	34.4	27.2	27.5	35.8	24.0	21.1	32.8	20.4	21.8
LnGrp LOS	C	C	C	C	C	C	D	C	C	C	C	C
Approach Vol, veh/h		562			625			899			877	
Approach Delay, s/veh		26.4			29.0			25.1			23.8	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.3	24.6	12.3	23.9	9.4	26.5	16.0	20.1
Change Period (Y+Rc), s	4.8	* 5.3	4.8	* 5.3	3.5	5.3	3.5	5.3
Max Green Setting (Gmax), s	45.0	* 40	45.0	* 35	25.0	40.0	40.0	35.0
Max Q Clear Time (g_c+I1), s	6.3	14.1	7.8	7.0	6.5	11.9	12.4	11.5
Green Ext Time (p_c), s	0.2	2.4	0.1	0.8	0.1	1.6	0.2	1.4

Intersection Summary	
HCM 6th Ctrl Delay	25.8
HCM 6th LOS	C

Notes

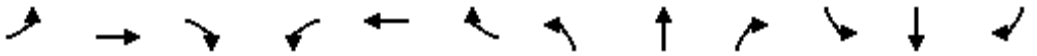
User approved pedestrian interval to be less than phase max green.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Lane Group	EBL	EBT	WBT	WBR	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	48	36	67	196	62	1028	318	830
v/c Ratio	0.26	0.18	0.32	0.55	0.33	0.65	0.50	0.37
Control Delay	36.2	18.4	35.9	12.3	37.2	22.8	29.9	15.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	36.2	18.4	35.9	12.3	37.2	22.8	29.9	15.4
Queue Length 50th (ft)	19	3	26	0	24	132	61	89
Queue Length 95th (ft)	59	31	74	60	71	218	122	149
Internal Link Dist (ft)		422	383			699		992
Turn Bay Length (ft)					170		260	
Base Capacity (vph)	426	416	721	743	568	3505	2590	4894
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.11	0.09	0.09	0.26	0.11	0.29	0.12	0.17

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	48	7	29	48	19	196	62	939	89	318	813	17
Future Volume (vph)	48	7	29	48	19	196	62	939	89	318	813	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Lane Util. Factor	1.00	1.00			1.00	1.00	1.00	0.91		0.97	0.91	
Frpb, ped/bikes	1.00	1.00			1.00	0.99	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	0.88			1.00	0.85	1.00	0.99		1.00	1.00	
Flt Protected	0.95	1.00			0.97	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1638			1798	1562	1770	5012		3433	5067	
Flt Permitted	0.95	1.00			0.97	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1638			1798	1562	1770	5012		3433	5067	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	48	7	29	48	19	196	62	939	89	318	813	17
RTOR Reduction (vph)	0	27	0	0	0	173	0	7	0	0	2	0
Lane Group Flow (vph)	48	9	0	0	67	23	62	1021	0	318	828	0
Confl. Peds. (#/hr)						2			6			1
Confl. Bikes (#/hr)									1			
Turn Type	Split	NA		Split	NA	Perm	Prot	NA		Prot	NA	
Protected Phases	4	4		3	3		5	2		1	6	
Permitted Phases						3						
Actuated Green, G (s)	5.5	5.5			7.9	7.9	5.7	22.7		12.4	29.4	
Effective Green, g (s)	5.5	5.5			7.9	7.9	5.7	22.7		12.4	29.4	
Actuated g/C Ratio	0.08	0.08			0.11	0.11	0.08	0.33		0.18	0.43	
Clearance Time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Vehicle Extension (s)	2.0	2.0			2.0	2.0	1.5	2.0		2.0	2.0	
Lane Grp Cap (vph)	141	130			206	179	146	1653		618	2165	
v/s Ratio Prot	c0.03	0.01			c0.04		0.04	c0.20		c0.09	0.16	
v/s Ratio Perm						0.01						
v/c Ratio	0.34	0.07			0.33	0.13	0.42	0.62		0.51	0.38	
Uniform Delay, d1	29.9	29.3			28.0	27.3	30.0	19.4		25.5	13.5	
Progression Factor	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.5	0.1			0.3	0.1	0.7	0.5		0.3	0.0	
Delay (s)	30.5	29.4			28.3	27.5	30.7	19.9		25.8	13.5	
Level of Service	C	C			C	C	C	B		C	B	
Approach Delay (s)		30.0			27.7			20.5			16.9	
Approach LOS		C			C			C			B	

Intersection Summary			
HCM 2000 Control Delay	20.0	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.51		
Actuated Cycle Length (s)	68.8	Sum of lost time (s)	20.3
Intersection Capacity Utilization	53.9%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

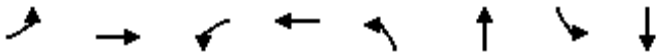
Intersection	
Int Delay, s/veh	0.8

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations							
Traffic Vol, veh/h	1	448	53	18	531	36	17
Future Vol, veh/h	1	448	53	18	531	36	17
Conflicting Peds, #/hr	0	0	2	2	0	0	0
Sign Control	Free	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0	-
Veh in Median Storage, #	-	0	-	-	0	1	-
Grade, %	-	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100	100
Heavy Vehicles, %	2	2	2	2	2	2	2
Mvmt Flow	1	448	53	18	531	36	17

Major/Minor	Major1			Major2		Minor1	
Conflicting Flow All	531	0	0	503	0	781	253
Stage 1	-	-	-	-	-	479	-
Stage 2	-	-	-	-	-	302	-
Critical Hdwy	6.44	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	-	5.84	-
Follow-up Hdwy	2.52	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	662	-	-	1058	-	332	746
Stage 1	-	-	-	-	-	589	-
Stage 2	-	-	-	-	-	724	-
Platoon blocked, %		-	-		-		
Mov Cap-1 Maneuver	662	-	-	1056	-	323	745
Mov Cap-2 Maneuver	-	-	-	-	-	437	-
Stage 1	-	-	-	-	-	587	-
Stage 2	-	-	-	-	-	707	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.4	13
HCM LOS			B

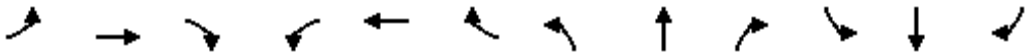
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	504	-	-	1056	-
HCM Lane V/C Ratio	0.105	-	-	0.017	-
HCM Control Delay (s)	13	0	-	8.5	0.1
HCM Lane LOS	B	A	-	A	A
HCM 95th %tile Q(veh)	0.3	-	-	0.1	-



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	248	379	58	482	84	714	104	467
v/c Ratio	0.70	0.32	0.39	0.70	0.47	0.76	0.52	0.42
Control Delay	48.6	25.3	54.3	40.5	54.2	39.0	53.7	25.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	48.6	25.3	54.3	40.5	54.2	39.0	53.7	25.0
Queue Length 50th (ft)	142	91	34	134	49	199	61	95
Queue Length 95th (ft)	266	150	88	228	116	#362	136	190
Internal Link Dist (ft)		1060		2431		769		1211
Turn Bay Length (ft)	125		120		180		130	
Base Capacity (vph)	756	1862	485	1314	582	1333	485	1164
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.33	0.20	0.12	0.37	0.14	0.54	0.21	0.40

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	248	329	50	58	344	138	84	615	99	104	282	185
Future Volume (veh/h)	248	329	50	58	344	138	84	615	99	104	282	185
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.99	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	248	329	50	58	344	138	84	615	99	104	282	185
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	298	1024	154	74	512	201	109	795	128	135	568	361
Arrive On Green	0.17	0.33	0.33	0.04	0.21	0.21	0.06	0.26	0.26	0.08	0.27	0.27
Sat Flow, veh/h	1781	3088	464	1781	2483	978	1781	3058	491	1781	2070	1314
Grp Volume(v), veh/h	248	188	191	58	244	238	84	357	357	104	241	226
Grp Sat Flow(s),veh/h/ln	1781	1777	1775	1781	1777	1684	1781	1777	1772	1781	1777	1607
Q Serve(g_s), s	9.3	5.4	5.6	2.2	8.7	9.0	3.2	12.8	12.9	3.9	7.8	8.2
Cycle Q Clear(g_c), s	9.3	5.4	5.6	2.2	8.7	9.0	3.2	12.8	12.9	3.9	7.8	8.2
Prop In Lane	1.00		0.26	1.00		0.58	1.00		0.28	1.00		0.82
Lane Grp Cap(c), veh/h	298	589	589	74	366	347	109	462	461	135	488	441
V/C Ratio(X)	0.83	0.32	0.32	0.78	0.67	0.68	0.77	0.77	0.78	0.77	0.49	0.51
Avail Cap(c_a), veh/h	1010	904	903	647	904	857	777	775	773	647	775	701
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.7	17.2	17.2	32.7	25.1	25.2	31.8	23.6	23.6	31.2	20.9	21.1
Incr Delay (d2), s/veh	2.3	0.1	0.1	6.6	0.8	0.9	4.2	1.0	1.1	3.4	0.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	2.1	2.1	1.1	3.6	3.5	1.5	5.2	5.2	1.8	3.1	2.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.0	17.3	17.3	39.2	25.9	26.1	36.0	24.6	24.7	34.6	21.2	21.4
LnGrp LOS	C	B	B	D	C	C	D	C	C	C	C	C
Approach Vol, veh/h		627			540			798			571	
Approach Delay, s/veh		22.3			27.5			25.8			23.7	
Approach LOS		C			C			C			C	

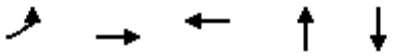
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.9	27.8	10.2	22.9	16.5	19.2	9.2	23.9
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	25.0	35.0	25.0	30.0	39.0	35.0	30.0	30.0
Max Q Clear Time (g_c+I1), s	4.2	7.6	5.9	14.9	11.3	11.0	5.2	10.2
Green Ext Time (p_c), s	0.1	1.5	0.1	2.7	0.3	1.9	0.1	1.8

Intersection Summary	
HCM 6th Ctrl Delay	24.8
HCM 6th LOS	C

Notes

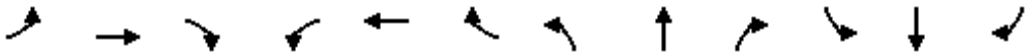
User approved pedestrian interval to be less than phase max green.

Appendix E – Background Conditions Intersections Level of Service Worksheets



Lane Group	EBL	EBT	WBT	NBT	SBT
Lane Group Flow (vph)	5	1343	675	50	1
v/c Ratio	0.03	0.45	0.23	0.17	0.00
Control Delay	24.2	2.7	3.3	1.3	0.0
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	24.2	2.7	3.3	1.3	0.0
Queue Length 50th (ft)	2	67	25	0	0
Queue Length 95th (ft)	10	96	84	0	0
Internal Link Dist (ft)		1105	809	608	371
Turn Bay Length (ft)	100				
Base Capacity (vph)	325	2991	3003	760	825
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.02	0.45	0.22	0.07	0.00

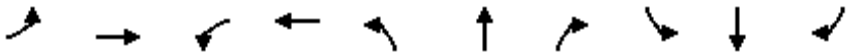
Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	1306	37	0	674	1	38	0	12	0	0	1
Future Volume (vph)	5	1306	37	0	674	1	38	0	12	0	0	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0			5.0			5.0	
Lane Util. Factor	1.00	0.95			0.95			1.00			1.00	
Frpb, ped/bikes	1.00	1.00			1.00			1.00			1.00	
Flpb, ped/bikes	1.00	1.00			1.00			1.00			1.00	
Frt	1.00	1.00			1.00			0.97			0.86	
Flt Protected	0.95	1.00			1.00			0.96			1.00	
Satd. Flow (prot)	1770	3521			3538			1736			1611	
Flt Permitted	0.95	1.00			1.00			1.00			1.00	
Satd. Flow (perm)	1770	3521			3538			1802			1611	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	5	1306	37	0	674	1	38	0	12	0	0	1
RTOR Reduction (vph)	0	1	0	0	0	0	0	48	0	0	1	0
Lane Group Flow (vph)	5	1342	0	0	675	0	0	2	0	0	0	0
Confl. Peds. (#/hr)			8			4						
Confl. Bikes (#/hr)			2			2						
Turn Type	Prot	NA		Prot	NA		Perm	NA			NA	
Protected Phases	5	2		1	6			4			4	
Permitted Phases							4			4		
Actuated Green, G (s)	1.0	48.3			42.3			2.6			2.6	
Effective Green, g (s)	1.0	48.3			42.3			2.6			2.6	
Actuated g/C Ratio	0.02	0.79			0.69			0.04			0.04	
Clearance Time (s)	5.0	5.0			5.0			5.0			5.0	
Vehicle Extension (s)	2.0	1.5			1.5			2.0			2.0	
Lane Grp Cap (vph)	29	2792			2457			76			68	
v/s Ratio Prot	0.00	c0.38			0.19						0.00	
v/s Ratio Perm								c0.00				
v/c Ratio	0.17	0.48			0.27			0.03			0.00	
Uniform Delay, d1	29.5	2.1			3.5			27.9			27.9	
Progression Factor	1.00	1.00			1.00			1.00			1.00	
Incremental Delay, d2	1.0	0.6			0.3			0.1			0.0	
Delay (s)	30.6	2.7			3.8			28.0			27.9	
Level of Service	C	A			A			C			C	
Approach Delay (s)		2.8			3.8			28.0			27.9	
Approach LOS		A			A			C			C	

Intersection Summary			
HCM 2000 Control Delay	3.7	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.51		
Actuated Cycle Length (s)	60.9	Sum of lost time (s)	15.0
Intersection Capacity Utilization	55.1%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	418	1114	162	674	42	451	230	118	652	169
v/c Ratio	0.71	0.74	0.70	0.81	0.41	0.63	0.53	0.49	0.77	0.35
Control Delay	46.1	34.5	69.1	52.4	71.1	48.7	20.6	64.4	51.1	9.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	46.1	34.5	69.1	52.4	71.1	48.7	20.6	64.4	51.1	9.4
Queue Length 50th (ft)	294	384	125	261	33	173	54	47	260	7
Queue Length 95th (ft)	#522	587	216	371	78	243	140	87	353	66
Internal Link Dist (ft)		863		1273		857			699	
Turn Bay Length (ft)	200		235		125		130	195		
Base Capacity (vph)	589	1500	662	1178	368	1178	618	1286	1797	859
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.71	0.74	0.24	0.57	0.11	0.38	0.37	0.09	0.36	0.20

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	418	981	133	162	545	129	42	451	230	118	652	169
Future Volume (veh/h)	418	981	133	162	545	129	42	451	230	118	652	169
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		1.00	1.00		0.99	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	418	981	133	162	545	129	42	451	230	118	652	169
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	457	1144	155	199	674	159	53	785	348	191	933	406
Arrive On Green	0.26	0.37	0.37	0.11	0.24	0.24	0.03	0.22	0.22	0.06	0.26	0.26
Sat Flow, veh/h	1781	3131	424	1781	2851	672	1781	3554	1576	3456	3554	1547
Grp Volume(v), veh/h	418	556	558	162	339	335	42	451	230	118	652	169
Grp Sat Flow(s),veh/h/ln	1781	1777	1778	1781	1777	1746	1781	1777	1576	1728	1777	1547
Q Serve(g_s), s	18.7	23.7	23.8	7.3	14.7	14.9	1.9	9.3	10.9	2.7	13.6	7.4
Cycle Q Clear(g_c), s	18.7	23.7	23.8	7.3	14.7	14.9	1.9	9.3	10.9	2.7	13.6	7.4
Prop In Lane	1.00		0.24	1.00		0.38	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	457	649	650	199	420	413	53	785	348	191	933	406
V/C Ratio(X)	0.91	0.86	0.86	0.81	0.81	0.81	0.80	0.57	0.66	0.62	0.70	0.42
Avail Cap(c_a), veh/h	869	759	759	978	759	746	543	1734	769	1897	1734	755
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	29.6	24.0	24.0	35.6	29.5	29.6	39.5	28.5	29.1	37.9	27.3	25.0
Incr Delay (d2), s/veh	3.1	7.6	7.6	3.0	1.4	1.5	9.7	0.2	0.8	1.2	0.4	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.9	10.6	10.6	3.2	6.1	6.1	1.0	3.8	4.0	1.2	5.5	2.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	32.7	31.6	31.7	38.6	30.9	31.0	49.2	28.7	29.9	39.1	27.7	25.3
LnGrp LOS	C	C	C	D	C	C	D	C	C	D	C	C
Approach Vol, veh/h		1532			836			723			939	
Approach Delay, s/veh		31.9			32.4			30.3			28.7	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.3	23.4	14.0	35.2	5.9	26.8	24.5	24.7
Change Period (Y+Rc), s	4.8	* 5.3	4.8	* 5.3	3.5	5.3	3.5	5.3
Max Green Setting (Gmax), s	45.0	* 40	45.0	* 35	25.0	40.0	40.0	35.0
Max Q Clear Time (g_c+I1), s	4.7	12.9	9.3	25.8	3.9	15.6	20.7	16.9
Green Ext Time (p_c), s	0.1	1.7	0.1	2.7	0.0	2.4	0.3	1.9

Intersection Summary	
HCM 6th Ctrl Delay	31.0
HCM 6th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.

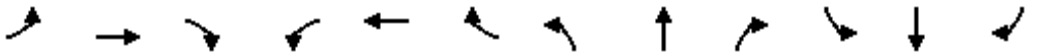
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Lane Group	EBL	EBT	WBT	WBR	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	25	22	68	763	39	886	1245	867
v/c Ratio	0.26	0.21	0.38	0.42	0.38	0.78	0.80	0.27
Control Delay	61.1	38.3	55.9	2.9	64.5	45.8	33.4	10.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	61.1	38.3	55.9	2.9	64.5	45.8	33.4	10.6
Queue Length 50th (ft)	18	6	47	23	28	219	400	100
Queue Length 95th (ft)	50	36	100	55	70	293	#656	158
Internal Link Dist (ft)		422	383			699		992
Turn Bay Length (ft)					170		260	
Base Capacity (vph)	401	391	404	2006	321	2050	1559	3452
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.06	0.06	0.17	0.38	0.12	0.43	0.80	0.25

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	25	9	13	62	6	763	39	797	89	1245	849	18
Future Volume (vph)	25	9	13	62	6	763	39	797	89	1245	849	18
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Lane Util. Factor	1.00	1.00			1.00	0.88	1.00	0.91		0.97	0.91	
Frpb, ped/bikes	1.00	0.99			1.00	1.00	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	0.91			1.00	0.85	1.00	0.98		1.00	1.00	
Flt Protected	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1681			1782	2780	1770	5000		3433	5066	
Flt Permitted	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1681			1782	2780	1770	5000		3433	5066	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	25	9	13	62	6	763	39	797	89	1245	849	18
RTOR Reduction (vph)	0	12	0	0	0	263	0	8	0	0	1	0
Lane Group Flow (vph)	25	10	0	0	68	500	39	878	0	1245	866	0
Confl. Peds. (#/hr)			5			2			4			5
Confl. Bikes (#/hr)												1
Turn Type	Split	NA		Split	NA	pm+ov	Prot	NA		Prot	NA	
Protected Phases	4	4		3	3	1	5	2		1	6	
Permitted Phases						3						
Actuated Green, G (s)	5.1	5.1			11.2	62.0	5.6	26.6		50.8	71.8	
Effective Green, g (s)	5.1	5.1			11.2	62.0	5.6	26.6		50.8	71.8	
Actuated g/C Ratio	0.04	0.04			0.10	0.54	0.05	0.23		0.45	0.63	
Clearance Time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Vehicle Extension (s)	2.0	2.0			2.0	2.0	1.5	2.0		2.0	2.0	
Lane Grp Cap (vph)	79	75			175	1511	86	1166		1529	3190	
v/s Ratio Prot	c0.01	0.01			c0.04	0.15	0.02	c0.18		c0.36	0.17	
v/s Ratio Perm						0.03						
v/c Ratio	0.32	0.13			0.39	0.33	0.45	0.75		0.81	0.27	
Uniform Delay, d1	52.8	52.3			48.2	14.5	52.7	40.6		27.5	9.4	
Progression Factor	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.8	0.3			0.5	0.0	1.4	2.5		3.3	0.0	
Delay (s)	53.6	52.6			48.7	14.5	54.1	43.1		30.8	9.4	
Level of Service	D	D			D	B	D	D		C	A	
Approach Delay (s)		53.1			17.3			43.6			22.0	
Approach LOS		D			B			D			C	

Intersection Summary			
HCM 2000 Control Delay	26.5	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.72		
Actuated Cycle Length (s)	114.0	Sum of lost time (s)	20.3
Intersection Capacity Utilization	77.8%	ICU Level of Service	D
Analysis Period (min)	15		

c Critical Lane Group

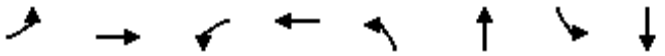
Intersection	
Int Delay, s/veh	1.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1283	88	16	727	61	34
Future Vol, veh/h	1283	88	16	727	61	34
Conflicting Peds, #/hr	0	5	5	0	1	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1283	88	16	727	61	34

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1376	0	1729	691
Stage 1	-	-	-	-	1332	-
Stage 2	-	-	-	-	397	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	494	-	79	387
Stage 1	-	-	-	-	211	-
Stage 2	-	-	-	-	648	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	492	-	74	385
Mov Cap-2 Maneuver	-	-	-	-	167	-
Stage 1	-	-	-	-	210	-
Stage 2	-	-	-	-	612	-

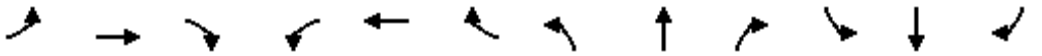
Approach	EB	WB	NB
HCM Control Delay, s	0	0.6	35.8
HCM LOS			E

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	209	-	-	492	-
HCM Lane V/C Ratio	0.455	-	-	0.033	-
HCM Control Delay (s)	35.8	-	-	12.6	0.3
HCM Lane LOS	E	-	-	B	A
HCM 95th %tile Q(veh)	2.2	-	-	0.1	-



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	226	599	96	443	51	581	144	347
v/c Ratio	0.65	0.62	0.47	0.66	0.34	0.72	0.56	0.32
Control Delay	45.2	32.2	50.3	39.1	51.1	35.2	48.5	22.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	45.2	32.2	50.3	39.1	51.1	35.2	48.5	22.8
Queue Length 50th (ft)	115	147	50	113	27	137	74	66
Queue Length 95th (ft)	245	267	127	219	80	259	173	133
Internal Link Dist (ft)		1060		2431		769		1211
Turn Bay Length (ft)	125		120		180		130	
Base Capacity (vph)	819	2019	525	1432	630	1419	525	1278
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.28	0.30	0.18	0.31	0.08	0.41	0.27	0.27

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	226	525	74	96	357	86	51	371	210	144	230	117
Future Volume (veh/h)	226	525	74	96	357	86	51	371	210	144	230	117
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		0.98	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	226	525	74	96	357	86	51	371	210	144	230	117
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	278	865	121	125	542	129	64	509	283	185	691	338
Arrive On Green	0.16	0.28	0.28	0.07	0.19	0.19	0.04	0.23	0.23	0.10	0.30	0.30
Sat Flow, veh/h	1781	3122	438	1781	2835	674	1781	2186	1216	1781	2300	1126
Grp Volume(v), veh/h	226	298	301	96	222	221	51	300	281	144	176	171
Grp Sat Flow(s),veh/h/ln	1781	1777	1783	1781	1777	1732	1781	1777	1626	1781	1777	1649
Q Serve(g_s), s	7.8	9.2	9.3	3.3	7.3	7.5	1.8	9.9	10.1	5.0	4.9	5.1
Cycle Q Clear(g_c), s	7.8	9.2	9.3	3.3	7.3	7.5	1.8	9.9	10.1	5.0	4.9	5.1
Prop In Lane	1.00		0.25	1.00		0.39	1.00		0.75	1.00		0.68
Lane Grp Cap(c), veh/h	278	492	494	125	340	331	64	413	378	185	534	496
V/C Ratio(X)	0.81	0.61	0.61	0.77	0.65	0.67	0.80	0.73	0.74	0.78	0.33	0.35
Avail Cap(c_a), veh/h	1099	983	987	704	983	959	845	843	771	704	843	782
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	25.8	19.9	19.9	28.9	23.6	23.7	30.2	22.4	22.5	27.6	17.2	17.3
Incr Delay (d2), s/veh	2.2	0.4	0.5	3.7	0.8	0.9	8.1	0.9	1.1	2.7	0.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.2	3.5	3.5	1.4	2.8	2.8	0.9	3.9	3.6	2.1	1.8	1.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.0	20.3	20.3	32.6	24.4	24.6	38.3	23.3	23.6	30.3	17.3	17.4
LnGrp LOS	C	C	C	C	C	C	D	C	C	C	B	B
Approach Vol, veh/h		825			539			632			491	
Approach Delay, s/veh		22.4			26.0			24.7			21.1	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.4	22.5	11.6	19.7	14.9	17.1	7.3	24.0
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	25.0	35.0	25.0	30.0	39.0	35.0	30.0	30.0
Max Q Clear Time (g_c+I1), s	5.3	11.3	7.0	12.1	9.8	9.5	3.8	7.1
Green Ext Time (p_c), s	0.1	2.3	0.2	2.2	0.3	1.5	0.0	1.3

Intersection Summary	
HCM 6th Ctrl Delay	23.5
HCM 6th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.



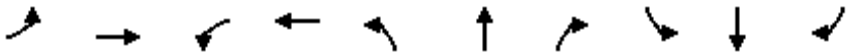
Lane Group	EBL	EBT	WBL	WBT	NBT	SBT
Lane Group Flow (vph)	1	1046	1	1123	37	10
v/c Ratio	0.01	0.37	0.01	0.39	0.13	0.04
Control Delay	24.0	3.8	24.0	4.0	0.9	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	24.0	3.8	24.0	4.0	0.9	0.3
Queue Length 50th (ft)	0	46	0	51	0	0
Queue Length 95th (ft)	4	142	4	156	0	0
Internal Link Dist (ft)		1105		809	608	371
Turn Bay Length (ft)	100		150			
Base Capacity (vph)	326	2865	651	3008	777	662
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.00	0.37	0.00	0.37	0.05	0.02

Intersection Summary

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	1021	25	1	1123	0	35	0	2	2	0	8
Future Volume (vph)	1	1021	25	1	1123	0	35	0	2	2	0	8
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0		5.0	5.0			5.0			5.0	
Lane Util. Factor	1.00	0.95		1.00	0.95			1.00			1.00	
Frpb, ped/bikes	1.00	1.00		1.00	1.00			1.00			1.00	
Flpb, ped/bikes	1.00	1.00		1.00	1.00			1.00			1.00	
Frt	1.00	1.00		1.00	1.00			0.99			0.89	
Flt Protected	0.95	1.00		0.95	1.00			0.95			0.99	
Satd. Flow (prot)	1770	3524		1770	3539			1764			1645	
Flt Permitted	0.95	1.00		0.95	1.00			1.00			0.92	
Satd. Flow (perm)	1770	3524		1770	3539			1847			1534	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	1	1021	25	1	1123	0	35	0	2	2	0	8
RTOR Reduction (vph)	0	1	0	0	0	0	0	35	0	0	10	0
Lane Group Flow (vph)	1	1045	0	1	1123	0	0	2	0	0	0	0
Confl. Peds. (#/hr)			3			2			1			
Confl. Bikes (#/hr)			2			1						
Turn Type	Prot	NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases	5	2		1	6			4			4	
Permitted Phases							4			4		
Actuated Green, G (s)	0.9	42.2		0.9	42.2			2.6			2.6	
Effective Green, g (s)	0.9	42.2		0.9	42.2			2.6			2.6	
Actuated g/C Ratio	0.01	0.70		0.01	0.70			0.04			0.04	
Clearance Time (s)	5.0	5.0		5.0	5.0			5.0			5.0	
Vehicle Extension (s)	2.0	1.5		2.0	1.5			2.0			2.0	
Lane Grp Cap (vph)	26	2449		26	2460			79			65	
v/s Ratio Prot	c0.00	0.30		0.00	c0.32							
v/s Ratio Perm								c0.00			0.00	
v/c Ratio	0.04	0.43		0.04	0.46			0.02			0.01	
Uniform Delay, d1	29.5	4.0		29.5	4.1			27.8			27.8	
Progression Factor	1.00	1.00		1.00	1.00			1.00			1.00	
Incremental Delay, d2	0.2	0.5		0.2	0.6			0.0			0.0	
Delay (s)	29.7	4.6		29.7	4.7			27.9			27.8	
Level of Service	C	A		C	A			C			C	
Approach Delay (s)		4.6			4.8			27.9			27.8	
Approach LOS		A			A			C			C	

Intersection Summary			
HCM 2000 Control Delay	5.2	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.42		
Actuated Cycle Length (s)	60.7	Sum of lost time (s)	15.0
Intersection Capacity Utilization	46.8%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	366	777	146	959	116	726	123	213	471	367
v/c Ratio	0.80	0.56	0.73	1.07	0.69	0.81	0.26	0.67	0.52	0.55
Control Delay	61.9	35.5	80.8	99.5	82.2	56.9	10.5	72.2	46.7	7.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	61.9	35.5	80.8	99.5	82.2	56.9	10.5	72.2	46.7	7.4
Queue Length 50th (ft)	310	285	131	~521	104	327	8	98	193	0
Queue Length 95th (ft)	461	407	213	#730	178	426	60	148	267	85
Internal Link Dist (ft)		863		1273		857			699	
Turn Bay Length (ft)	200		235		125		130	195		
Base Capacity (vph)	520	1388	585	1045	325	1040	532	1135	1586	898
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.70	0.56	0.25	0.92	0.36	0.70	0.23	0.19	0.30	0.41

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	366	727	50	146	810	149	116	726	123	213	471	367
Future Volume (veh/h)	366	727	50	146	810	149	116	726	123	213	471	367
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.98	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	366	727	50	146	810	149	116	726	123	213	471	367
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	393	1349	93	174	859	158	142	902	398	274	939	416
Arrive On Green	0.22	0.40	0.40	0.10	0.29	0.29	0.08	0.25	0.25	0.08	0.26	0.26
Sat Flow, veh/h	1781	3372	232	1781	2985	549	1781	3554	1568	3456	3554	1576
Grp Volume(v), veh/h	366	383	394	146	482	477	116	726	123	213	471	367
Grp Sat Flow(s),veh/h/ln	1781	1777	1827	1781	1777	1757	1781	1777	1568	1728	1777	1576
Q Serve(g_s), s	24.0	19.6	19.7	9.6	31.6	31.6	7.6	22.8	7.6	7.2	13.4	26.6
Cycle Q Clear(g_c), s	24.0	19.6	19.7	9.6	31.6	31.6	7.6	22.8	7.6	7.2	13.4	26.6
Prop In Lane	1.00		0.13	1.00		0.31	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	393	711	731	174	511	506	142	902	398	274	939	416
V/C Ratio(X)	0.93	0.54	0.54	0.84	0.94	0.94	0.82	0.81	0.31	0.78	0.50	0.88
Avail Cap(c_a), veh/h	598	711	731	673	522	516	374	1193	526	1305	1193	529
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.5	27.3	27.4	52.9	41.5	41.5	54.0	41.7	36.0	53.8	37.2	42.1
Incr Delay (d2), s/veh	12.6	0.4	0.4	4.1	25.3	25.5	4.3	2.3	0.2	1.8	0.2	11.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.8	8.3	8.5	4.5	17.1	17.0	3.6	10.1	2.9	3.2	5.8	11.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	58.1	27.8	27.8	57.0	66.8	66.9	58.3	44.0	36.2	55.6	37.3	53.6
LnGrp LOS	E	C	C	E	E	E	E	D	D	E	D	D
Approach Vol, veh/h		1143			1105			965			1051	
Approach Delay, s/veh		37.5			65.5			44.7			46.7	
Approach LOS		D			E			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.2	35.5	16.4	53.0	13.0	36.8	29.8	39.6
Change Period (Y+Rc), s	4.8	* 5.3	4.8	* 5.3	3.5	5.3	3.5	5.3
Max Green Setting (Gmax), s	45.0	* 40	45.0	* 35	25.0	40.0	40.0	35.0
Max Q Clear Time (g_c+I1), s	9.2	24.8	11.6	21.7	9.6	28.6	26.0	33.6
Green Ext Time (p_c), s	0.2	2.4	0.1	2.0	0.1	1.7	0.3	0.6

Intersection Summary	
HCM 6th Ctrl Delay	48.7
HCM 6th LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

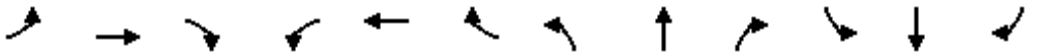


Lane Group	EBL	EBT	WBT	WBR	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	48	37	132	1595	62	1098	1716	845
v/c Ratio	0.46	0.30	0.40	0.97	0.55	0.84	1.37	0.29
Control Delay	79.5	33.5	57.0	38.8	83.5	54.0	206.5	16.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	79.5	33.5	57.0	38.8	83.5	54.0	206.5	16.3
Queue Length 50th (ft)	43	7	109	492	56	343	~1082	145
Queue Length 95th (ft)	92	46	192	#1085	112	413	#1360	197
Internal Link Dist (ft)		422	383			699		992
Turn Bay Length (ft)					170		260	
Base Capacity (vph)	193	205	326	1640	258	1644	1253	2937
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.25	0.18	0.40	0.97	0.24	0.67	1.37	0.29

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	48	8	29	112	20	1595	62	945	153	1716	828	17
Future Volume (vph)	48	8	29	112	20	1595	62	945	153	1716	828	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Lane Util. Factor	1.00	1.00			1.00	0.88	1.00	0.91		0.97	0.91	
Frpb, ped/bikes	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	0.88			1.00	0.85	1.00	0.98		1.00	1.00	
Flt Protected	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1644			1787	2773	1770	4964		3433	5068	
Flt Permitted	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1644			1787	2773	1770	4964		3433	5068	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	48	8	29	112	20	1595	62	945	153	1716	828	17
RTOR Reduction (vph)	0	28	0	0	0	124	0	15	0	0	1	0
Lane Group Flow (vph)	48	9	0	0	132	1471	62	1083	0	1716	844	0
Confl. Peds. (#/hr)						2			6			1
Confl. Bikes (#/hr)									1			
Turn Type	Split	NA		Split	NA	pm+ov	Prot	NA		Prot	NA	
Protected Phases	4	4		3	3	1	5	2		1	6	
Permitted Phases						3						
Actuated Green, G (s)	7.1	7.1			25.2	75.6	7.7	37.3		50.4	80.0	
Effective Green, g (s)	7.1	7.1			25.2	75.6	7.7	37.3		50.4	80.0	
Actuated g/C Ratio	0.05	0.05			0.18	0.54	0.05	0.27		0.36	0.57	
Clearance Time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Vehicle Extension (s)	2.0	2.0			2.0	2.0	1.5	2.0		2.0	2.0	
Lane Grp Cap (vph)	89	83			320	1494	97	1319		1233	2889	
v/s Ratio Prot	c0.03	0.01			0.07	c0.35	0.04	c0.22		c0.50	0.17	
v/s Ratio Perm						0.18						
v/c Ratio	0.54	0.11			0.41	0.98	0.64	0.82		1.39	0.29	
Uniform Delay, d1	65.0	63.6			51.0	31.8	64.9	48.4		45.0	15.5	
Progression Factor	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	3.1	0.2			0.3	19.5	9.7	4.0		181.3	0.0	
Delay (s)	68.1	63.8			51.3	51.3	74.7	52.4		226.3	15.6	
Level of Service	E	E			D	D	E	D		F	B	
Approach Delay (s)		66.3			51.3			53.6			156.7	
Approach LOS		E			D			D			F	

Intersection Summary			
HCM 2000 Control Delay	100.8	HCM 2000 Level of Service	F
HCM 2000 Volume to Capacity ratio	1.08		
Actuated Cycle Length (s)	140.3	Sum of lost time (s)	20.3
Intersection Capacity Utilization	98.4%	ICU Level of Service	F
Analysis Period (min)	15		

c Critical Lane Group

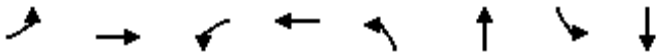
Intersection	
Int Delay, s/veh	0.9

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations							
Traffic Vol, veh/h	1	1038	53	18	1110	36	17
Future Vol, veh/h	1	1038	53	18	1110	36	17
Conflicting Peds, #/hr	0	0	2	2	0	0	0
Sign Control	Free	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0	-
Veh in Median Storage, #	-	0	-	-	0	1	-
Grade, %	-	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100	100
Heavy Vehicles, %	2	2	2	2	2	2	2
Mvmt Flow	1	1038	53	18	1110	36	17

Major/Minor	Major1			Major2		Minor1	
Conflicting Flow All	1110	0	0	1093	0	1660	548
Stage 1	-	-	-	-	-	1069	-
Stage 2	-	-	-	-	-	591	-
Critical Hdwy	6.44	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	-	5.84	-
Follow-up Hdwy	2.52	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	282	-	-	634	-	88	480
Stage 1	-	-	-	-	-	291	-
Stage 2	-	-	-	-	-	516	-
Platoon blocked, %		-	-		-		
Mov Cap-1 Maneuver	282	-	-	633	-	81	479
Mov Cap-2 Maneuver	-	-	-	-	-	198	-
Stage 1	-	-	-	-	-	288	-
Stage 2	-	-	-	-	-	478	-

Approach	EB	WB	NB
HCM Control Delay, s	0.1	0.6	23.8
HCM LOS			C

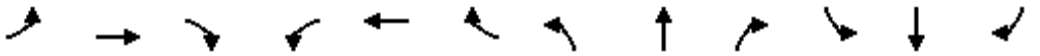
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	244	-	-	633	-
HCM Lane V/C Ratio	0.217	-	-	0.028	-
HCM Control Delay (s)	23.8	0.1	-	10.9	0.4
HCM Lane LOS	C	A	-	B	A
HCM 95th %tile Q(veh)	0.8	-	-	0.1	-



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	248	393	60	488	84	718	104	467
v/c Ratio	0.70	0.33	0.40	0.71	0.47	0.76	0.52	0.42
Control Delay	49.0	25.6	54.7	40.9	54.5	39.3	53.9	25.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	49.0	25.6	54.7	40.9	54.5	39.3	53.9	25.1
Queue Length 50th (ft)	143	95	36	138	50	201	61	95
Queue Length 95th (ft)	267	156	91	232	116	#378	137	190
Internal Link Dist (ft)		1060		2431		769		1211
Turn Bay Length (ft)	125		120		180		130	
Base Capacity (vph)	751	1851	481	1306	577	1321	481	1157
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.33	0.21	0.12	0.37	0.15	0.54	0.22	0.40

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	248	343	50	60	350	138	84	615	103	104	282	185
Future Volume (veh/h)	248	343	50	60	350	138	84	615	103	104	282	185
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.99	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	248	343	50	60	350	138	84	615	103	104	282	185
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	298	1029	149	77	517	200	109	793	132	135	570	362
Arrive On Green	0.17	0.33	0.33	0.04	0.21	0.21	0.06	0.26	0.26	0.08	0.28	0.28
Sat Flow, veh/h	1781	3107	448	1781	2496	967	1781	3038	508	1781	2070	1314
Grp Volume(v), veh/h	248	195	198	60	247	241	84	359	359	104	241	226
Grp Sat Flow(s),veh/h/ln	1781	1777	1778	1781	1777	1686	1781	1777	1769	1781	1777	1607
Q Serve(g_s), s	9.3	5.7	5.8	2.3	8.9	9.1	3.2	13.0	13.0	4.0	7.9	8.2
Cycle Q Clear(g_c), s	9.3	5.7	5.8	2.3	8.9	9.1	3.2	13.0	13.0	4.0	7.9	8.2
Prop In Lane	1.00		0.25	1.00		0.57	1.00		0.29	1.00		0.82
Lane Grp Cap(c), veh/h	298	589	589	77	368	350	109	464	461	135	489	443
V/C Ratio(X)	0.83	0.33	0.34	0.78	0.67	0.69	0.77	0.77	0.78	0.77	0.49	0.51
Avail Cap(c_a), veh/h	1003	898	898	643	898	852	771	769	766	643	769	696
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.9	17.4	17.4	32.8	25.3	25.4	32.0	23.7	23.7	31.4	21.0	21.2
Incr Delay (d2), s/veh	2.3	0.1	0.1	6.3	0.8	0.9	4.2	1.1	1.1	3.4	0.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	2.2	2.3	1.1	3.6	3.6	1.5	5.2	5.3	1.8	3.1	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.3	17.5	17.6	39.1	26.1	26.3	36.2	24.8	24.8	34.9	21.3	21.5
LnGrp LOS	C	B	B	D	C	C	D	C	C	C	C	C
Approach Vol, veh/h		641			548			802			571	
Approach Delay, s/veh		22.5			27.6			26.0			23.9	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.0	28.0	10.3	23.1	16.6	19.4	9.3	24.1
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	25.0	35.0	25.0	30.0	39.0	35.0	30.0	30.0
Max Q Clear Time (g_c+I1), s	4.3	7.8	6.0	15.0	11.3	11.1	5.2	10.2
Green Ext Time (p_c), s	0.1	1.5	0.1	2.7	0.3	2.0	0.1	1.8

Intersection Summary	
HCM 6th Ctrl Delay	25.0
HCM 6th LOS	C

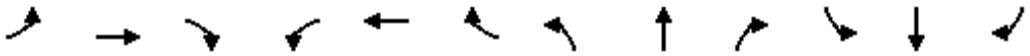
Notes

User approved pedestrian interval to be less than phase max green.

Appendix F – Background plus Project Conditions Intersections Level of Service Worksheets

Lane Group	EBL	EBT	WBT	NBT	SBT
Lane Group Flow (vph)	5	1343	681	50	26
v/c Ratio	0.03	0.45	0.24	0.17	0.09
Control Delay	23.2	2.8	3.4	1.3	0.6
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	23.2	2.8	3.4	1.3	0.6
Queue Length 50th (ft)	2	67	26	0	0
Queue Length 95th (ft)	10	96	85	0	0
Internal Link Dist (ft)		1105	809	608	371
Turn Bay Length (ft)	100				
Base Capacity (vph)	333	2970	2998	774	785
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.02	0.45	0.23	0.06	0.03

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	1306	37	0	674	7	38	0	12	23	0	3
Future Volume (vph)	5	1306	37	0	674	7	38	0	12	23	0	3
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0			5.0			5.0	
Lane Util. Factor	1.00	0.95			0.95			1.00			1.00	
Frpb, ped/bikes	1.00	1.00			1.00			1.00			1.00	
Flpb, ped/bikes	1.00	1.00			1.00			1.00			1.00	
Frt	1.00	1.00			1.00			0.97			0.98	
Flt Protected	0.95	1.00			1.00			0.96			0.96	
Satd. Flow (prot)	1770	3521			3533			1736			1756	
Flt Permitted	0.95	1.00			1.00			1.00			1.00	
Satd. Flow (perm)	1770	3521			3533			1802			1834	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	5	1306	37	0	674	7	38	0	12	23	0	3
RTOR Reduction (vph)	0	1	0	0	1	0	0	48	0	0	25	0
Lane Group Flow (vph)	5	1342	0	0	680	0	0	2	0	0	1	0
Confl. Peds. (#/hr)			8			4						
Confl. Bikes (#/hr)			2			2						
Turn Type	Prot	NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases	5	2		1	6			4			4	
Permitted Phases							4			4		
Actuated Green, G (s)	1.0	46.9			40.9			2.6			2.6	
Effective Green, g (s)	1.0	46.9			40.9			2.6			2.6	
Actuated g/C Ratio	0.02	0.79			0.69			0.04			0.04	
Clearance Time (s)	5.0	5.0			5.0			5.0			5.0	
Vehicle Extension (s)	2.0	1.5			1.5			2.0			2.0	
Lane Grp Cap (vph)	29	2775			2428			78			80	
v/s Ratio Prot	0.00	c0.38			0.19							
v/s Ratio Perm								c0.00			0.00	
v/c Ratio	0.17	0.48			0.28			0.03			0.01	
Uniform Delay, d1	28.8	2.2			3.6			27.2			27.2	
Progression Factor	1.00	1.00			1.00			1.00			1.00	
Incremental Delay, d2	1.0	0.6			0.3			0.1			0.0	
Delay (s)	29.9	2.8			3.9			27.3			27.2	
Level of Service	C	A			A			C			C	
Approach Delay (s)		2.9			3.9			27.3			27.2	
Approach LOS		A			A			C			C	

Intersection Summary			
HCM 2000 Control Delay	4.1	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.51		
Actuated Cycle Length (s)	59.5	Sum of lost time (s)	15.0
Intersection Capacity Utilization	49.0%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	438	1117	162	675	42	451	230	118	652	174
v/c Ratio	0.74	0.74	0.70	0.82	0.41	0.63	0.53	0.49	0.77	0.35
Control Delay	47.7	34.6	69.1	52.4	71.1	48.7	20.6	64.4	51.1	9.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	47.7	34.6	69.1	52.4	71.1	48.7	20.6	64.4	51.1	9.3
Queue Length 50th (ft)	313	385	125	261	33	173	54	47	260	7
Queue Length 95th (ft)	#564	589	216	372	78	243	140	87	353	67
Internal Link Dist (ft)		863		1273		857			699	
Turn Bay Length (ft)	200		235		125		130	195		
Base Capacity (vph)	589	1500	662	1178	368	1178	618	1286	1797	861
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.74	0.74	0.24	0.57	0.11	0.38	0.37	0.09	0.36	0.20

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	438	983	134	162	546	129	42	451	230	118	652	174
Future Volume (veh/h)	438	983	134	162	546	129	42	451	230	118	652	174
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		1.00	1.00		0.99	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	438	983	134	162	546	129	42	451	230	118	652	174
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	476	1172	160	199	669	157	53	779	346	190	924	402
Arrive On Green	0.27	0.37	0.37	0.11	0.23	0.23	0.03	0.22	0.22	0.05	0.26	0.26
Sat Flow, veh/h	1781	3129	426	1781	2852	671	1781	3554	1576	3456	3554	1547
Grp Volume(v), veh/h	438	558	559	162	339	336	42	451	230	118	652	174
Grp Sat Flow(s),veh/h/ln	1781	1777	1778	1781	1777	1746	1781	1777	1576	1728	1777	1547
Q Serve(g_s), s	20.2	24.1	24.2	7.5	15.2	15.4	2.0	9.6	11.2	2.8	14.0	7.9
Cycle Q Clear(g_c), s	20.2	24.1	24.2	7.5	15.2	15.4	2.0	9.6	11.2	2.8	14.0	7.9
Prop In Lane	1.00		0.24	1.00		0.38	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	476	666	666	199	417	410	53	779	346	190	924	402
V/C Ratio(X)	0.92	0.84	0.84	0.82	0.81	0.82	0.79	0.58	0.67	0.62	0.71	0.43
Avail Cap(c_a), veh/h	845	738	738	951	738	725	528	1686	748	1844	1686	734
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	30.0	24.0	24.0	36.6	30.5	30.6	40.7	29.4	30.1	39.0	28.3	26.0
Incr Delay (d2), s/veh	4.5	7.0	7.1	3.1	1.5	1.6	9.5	0.3	0.8	1.2	0.4	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.8	10.7	10.7	3.3	6.4	6.3	1.0	3.9	4.2	1.2	5.7	2.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	34.5	31.1	31.1	39.7	32.0	32.1	50.2	29.7	30.9	40.2	28.7	26.3
LnGrp LOS	C	C	C	D	C	C	D	C	C	D	C	C
Approach Vol, veh/h		1555			837			723			944	
Approach Delay, s/veh		32.1			33.5			31.3			29.7	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.4	23.8	14.2	36.9	6.0	27.2	26.0	25.1
Change Period (Y+Rc), s	4.8	* 5.3	4.8	* 5.3	3.5	5.3	3.5	5.3
Max Green Setting (Gmax), s	45.0	* 40	45.0	* 35	25.0	40.0	40.0	35.0
Max Q Clear Time (g_c+I1), s	4.8	13.2	9.5	26.2	4.0	16.0	22.2	17.4
Green Ext Time (p_c), s	0.1	1.7	0.1	2.7	0.0	2.4	0.4	1.9

Intersection Summary	
HCM 6th Ctrl Delay	31.7
HCM 6th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.

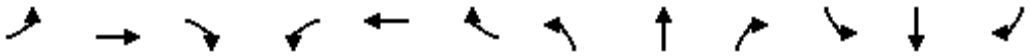
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Lane Group	EBL	EBT	WBT	WBR	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	25	22	68	763	39	906	1245	872
v/c Ratio	0.26	0.21	0.38	0.43	0.38	0.78	0.80	0.27
Control Delay	61.8	38.3	56.4	3.0	65.3	45.7	34.1	10.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	61.8	38.3	56.4	3.0	65.3	45.7	34.1	10.6
Queue Length 50th (ft)	18	6	48	24	28	226	403	101
Queue Length 95th (ft)	51	36	101	57	71	301	#675	161
Internal Link Dist (ft)		422	383			699		992
Turn Bay Length (ft)					170		260	
Base Capacity (vph)	399	388	401	1996	319	2037	1548	3431
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.06	0.06	0.17	0.38	0.12	0.44	0.80	0.25

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	25	9	13	62	6	763	39	817	89	1245	854	18
Future Volume (vph)	25	9	13	62	6	763	39	817	89	1245	854	18
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Lane Util. Factor	1.00	1.00			1.00	0.88	1.00	0.91		0.97	0.91	
Frpb, ped/bikes	1.00	0.99			1.00	1.00	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	0.91			1.00	0.85	1.00	0.99		1.00	1.00	
Flt Protected	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1680			1782	2780	1770	5002		3433	5066	
Flt Permitted	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1680			1782	2780	1770	5002		3433	5066	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	25	9	13	62	6	763	39	817	89	1245	854	18
RTOR Reduction (vph)	0	12	0	0	0	264	0	8	0	0	1	0
Lane Group Flow (vph)	25	10	0	0	68	499	39	898	0	1245	871	0
Confl. Peds. (#/hr)			5			2			4			5
Confl. Bikes (#/hr)												1
Turn Type	Split	NA		Split	NA	pm+ov	Prot	NA		Prot	NA	
Protected Phases	4	4		3	3	1	5	2		1	6	
Permitted Phases						3						
Actuated Green, G (s)	5.1	5.1			11.3	62.1	5.6	27.3		50.8	72.5	
Effective Green, g (s)	5.1	5.1			11.3	62.1	5.6	27.3		50.8	72.5	
Actuated g/C Ratio	0.04	0.04			0.10	0.54	0.05	0.24		0.44	0.63	
Clearance Time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Vehicle Extension (s)	2.0	2.0			2.0	2.0	1.5	2.0		2.0	2.0	
Lane Grp Cap (vph)	78	74			175	1503	86	1189		1519	3199	
v/s Ratio Prot	c0.01	0.01			c0.04	0.15	0.02	c0.18		c0.36	0.17	
v/s Ratio Perm						0.03						
v/c Ratio	0.32	0.13			0.39	0.33	0.45	0.75		0.82	0.27	
Uniform Delay, d1	53.2	52.7			48.5	14.7	53.1	40.6		28.0	9.4	
Progression Factor	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.9	0.3			0.5	0.0	1.4	2.5		3.4	0.0	
Delay (s)	54.0	53.0			49.0	14.8	54.5	43.1		31.4	9.4	
Level of Service	D	D			D	B	D	D		C	A	
Approach Delay (s)		53.6			17.6			43.6			22.3	
Approach LOS		D			B			D			C	

Intersection Summary			
HCM 2000 Control Delay	26.8	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.72		
Actuated Cycle Length (s)	114.8	Sum of lost time (s)	20.3
Intersection Capacity Utilization	78.2%	ICU Level of Service	D
Analysis Period (min)	15		

c Critical Lane Group

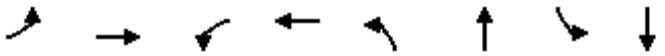
Intersection	
Int Delay, s/veh	1.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1283	88	16	729	61	34
Future Vol, veh/h	1283	88	16	729	61	34
Conflicting Peds, #/hr	0	5	5	0	1	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1283	88	16	729	61	34

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1376	0	1730	691
Stage 1	-	-	-	-	1332	-
Stage 2	-	-	-	-	398	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	494	-	79	387
Stage 1	-	-	-	-	211	-
Stage 2	-	-	-	-	647	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	492	-	74	385
Mov Cap-2 Maneuver	-	-	-	-	167	-
Stage 1	-	-	-	-	210	-
Stage 2	-	-	-	-	611	-

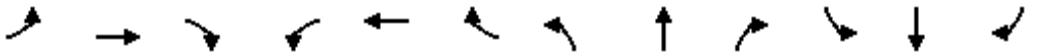
Approach	EB	WB	NB
HCM Control Delay, s	0	0.6	35.8
HCM LOS			E

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	209	-	-	492	-
HCM Lane V/C Ratio	0.455	-	-	0.033	-
HCM Control Delay (s)	35.8	-	-	12.6	0.3
HCM Lane LOS	E	-	-	B	A
HCM 95th %tile Q(veh)	2.2	-	-	0.1	-



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	226	599	98	443	51	581	144	347
v/c Ratio	0.65	0.63	0.48	0.66	0.34	0.72	0.56	0.32
Control Delay	45.2	32.4	50.3	39.1	51.1	35.2	48.5	22.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	45.2	32.4	50.3	39.1	51.1	35.2	48.5	22.8
Queue Length 50th (ft)	115	147	51	113	27	137	74	66
Queue Length 95th (ft)	245	268	128	219	80	259	173	133
Internal Link Dist (ft)		1060		2431		769		1211
Turn Bay Length (ft)	125		120		180		130	
Base Capacity (vph)	819	2019	525	1432	630	1419	525	1278
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.28	0.30	0.19	0.31	0.08	0.41	0.27	0.27

Intersection Summary



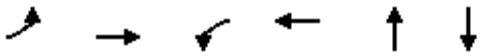
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	226	525	74	98	357	86	51	371	210	144	230	117
Future Volume (veh/h)	226	525	74	98	357	86	51	371	210	144	230	117
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		0.98	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	226	525	74	98	357	86	51	371	210	144	230	117
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	278	860	121	128	542	129	64	509	283	185	691	338
Arrive On Green	0.16	0.28	0.28	0.07	0.19	0.19	0.04	0.23	0.23	0.10	0.30	0.30
Sat Flow, veh/h	1781	3122	438	1781	2835	674	1781	2186	1216	1781	2300	1126
Grp Volume(v), veh/h	226	298	301	98	222	221	51	300	281	144	176	171
Grp Sat Flow(s),veh/h/ln	1781	1777	1783	1781	1777	1732	1781	1777	1626	1781	1777	1649
Q Serve(g_s), s	7.8	9.2	9.3	3.4	7.3	7.5	1.8	9.9	10.1	5.0	4.9	5.1
Cycle Q Clear(g_c), s	7.8	9.2	9.3	3.4	7.3	7.5	1.8	9.9	10.1	5.0	4.9	5.1
Prop In Lane	1.00		0.25	1.00		0.39	1.00		0.75	1.00		0.68
Lane Grp Cap(c), veh/h	278	490	491	128	340	331	64	413	378	185	534	496
V/C Ratio(X)	0.81	0.61	0.61	0.77	0.65	0.67	0.80	0.73	0.74	0.78	0.33	0.35
Avail Cap(c_a), veh/h	1099	983	987	704	983	959	845	843	771	704	843	782
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	25.8	19.9	20.0	28.8	23.6	23.7	30.2	22.4	22.5	27.6	17.2	17.3
Incr Delay (d2), s/veh	2.2	0.5	0.5	3.6	0.8	0.9	8.1	0.9	1.1	2.7	0.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.2	3.5	3.6	1.5	2.8	2.8	0.9	3.9	3.6	2.1	1.8	1.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.0	20.4	20.4	32.5	24.4	24.6	38.3	23.3	23.6	30.3	17.3	17.4
LnGrp LOS	C	C	C	C	C	C	D	C	C	C	B	B
Approach Vol, veh/h		825			541			632			491	
Approach Delay, s/veh		22.5			26.0			24.7			21.1	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.5	22.4	11.6	19.7	14.9	17.1	7.3	24.0
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	25.0	35.0	25.0	30.0	39.0	35.0	30.0	30.0
Max Q Clear Time (g_c+I1), s	5.4	11.3	7.0	12.1	9.8	9.5	3.8	7.1
Green Ext Time (p_c), s	0.1	2.3	0.2	2.2	0.3	1.5	0.0	1.3

Intersection Summary	
HCM 6th Ctrl Delay	23.5
HCM 6th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.



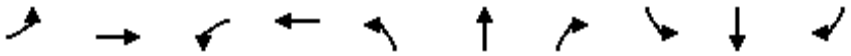
Lane Group	EBL	EBT	WBL	WBT	NBT	SBT
Lane Group Flow (vph)	3	1046	1	1145	37	19
v/c Ratio	0.02	0.37	0.01	0.40	0.13	0.07
Control Delay	23.7	3.8	24.0	4.1	0.9	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	23.7	3.8	24.0	4.1	0.9	0.4
Queue Length 50th (ft)	1	46	0	52	0	0
Queue Length 95th (ft)	7	142	4	163	0	0
Internal Link Dist (ft)		1105		809	608	371
Turn Bay Length (ft)	100		150			
Base Capacity (vph)	327	2861	655	2990	781	742
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.01	0.37	0.00	0.38	0.05	0.03

Intersection Summary

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	3	1021	25	1	1123	22	35	0	2	10	0	9
Future Volume (vph)	3	1021	25	1	1123	22	35	0	2	10	0	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0		5.0	5.0			5.0			5.0	
Lane Util. Factor	1.00	0.95		1.00	0.95			1.00			1.00	
Frpb, ped/bikes	1.00	1.00		1.00	1.00			1.00			1.00	
Flpb, ped/bikes	1.00	1.00		1.00	1.00			1.00			1.00	
Frt	1.00	1.00		1.00	1.00			0.99			0.94	
Flt Protected	0.95	1.00		0.95	1.00			0.95			0.97	
Satd. Flow (prot)	1770	3524		1770	3527			1764			1699	
Flt Permitted	0.95	1.00		0.95	1.00			1.00			1.00	
Satd. Flow (perm)	1770	3524		1770	3527			1847			1744	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	3	1021	25	1	1123	22	35	0	2	10	0	9
RTOR Reduction (vph)	0	1	0	0	1	0	0	35	0	0	18	0
Lane Group Flow (vph)	3	1045	0	1	1144	0	0	2	0	0	1	0
Confl. Peds. (#/hr)			3			2			1			
Confl. Bikes (#/hr)			2			1						
Turn Type	Prot	NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases	5	2		1	6			4			4	
Permitted Phases							4			4		
Actuated Green, G (s)	1.0	42.0		0.9	41.9			2.6			2.6	
Effective Green, g (s)	1.0	42.0		0.9	41.9			2.6			2.6	
Actuated g/C Ratio	0.02	0.69		0.01	0.69			0.04			0.04	
Clearance Time (s)	5.0	5.0		5.0	5.0			5.0			5.0	
Vehicle Extension (s)	2.0	1.5		2.0	1.5			2.0			2.0	
Lane Grp Cap (vph)	29	2446		26	2442			79			74	
v/s Ratio Prot	c0.00	0.30		0.00	c0.32							
v/s Ratio Perm								c0.00			0.00	
v/c Ratio	0.10	0.43		0.04	0.47			0.02			0.01	
Uniform Delay, d1	29.3	4.0		29.4	4.2			27.7			27.7	
Progression Factor	1.00	1.00		1.00	1.00			1.00			1.00	
Incremental Delay, d2	0.6	0.5		0.2	0.6			0.0			0.0	
Delay (s)	29.9	4.6		29.6	4.9			27.8			27.7	
Level of Service	C	A		C	A			C			C	
Approach Delay (s)		4.6			4.9			27.8			27.7	
Approach LOS		A			A			C			C	

Intersection Summary			
HCM 2000 Control Delay	5.3	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.43		
Actuated Cycle Length (s)	60.5	Sum of lost time (s)	15.0
Intersection Capacity Utilization	43.5%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

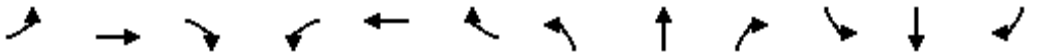


Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	373	778	146	962	117	726	123	213	471	385
v/c Ratio	0.79	0.55	0.73	1.09	0.69	0.82	0.26	0.67	0.52	0.56
Control Delay	61.1	35.3	81.7	105.4	83.2	57.8	10.5	72.9	47.3	7.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	61.1	35.3	81.7	105.4	83.2	57.8	10.5	72.9	47.3	7.4
Queue Length 50th (ft)	317	286	133	~534	106	333	8	100	196	0
Queue Length 95th (ft)	#477	408	213	#734	179	426	60	148	267	88
Internal Link Dist (ft)		863		1273		857			699	
Turn Bay Length (ft)	200		235		125		130	195		
Base Capacity (vph)	514	1405	578	1032	321	1028	527	1121	1567	902
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.73	0.55	0.25	0.93	0.36	0.71	0.23	0.19	0.30	0.43

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	373	728	50	146	813	149	117	726	123	213	471	385
Future Volume (veh/h)	373	728	50	146	813	149	117	726	123	213	471	385
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.98	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	373	728	50	146	813	149	117	726	123	213	471	385
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	399	1348	93	173	846	155	142	928	410	272	960	426
Arrive On Green	0.22	0.40	0.40	0.10	0.28	0.28	0.08	0.26	0.26	0.08	0.27	0.27
Sat Flow, veh/h	1781	3372	231	1781	2987	547	1781	3554	1569	3456	3554	1576
Grp Volume(v), veh/h	373	383	395	146	484	478	117	726	123	213	471	385
Grp Sat Flow(s),veh/h/ln	1781	1777	1827	1781	1777	1757	1781	1777	1569	1728	1777	1576
Q Serve(g_s), s	25.4	20.4	20.4	10.0	33.1	33.1	8.0	23.4	7.8	7.5	13.8	29.1
Cycle Q Clear(g_c), s	25.4	20.4	20.4	10.0	33.1	33.1	8.0	23.4	7.8	7.5	13.8	29.1
Prop In Lane	1.00		0.13	1.00		0.31	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	399	710	730	173	503	498	142	928	410	272	960	426
V/C Ratio(X)	0.93	0.54	0.54	0.84	0.96	0.96	0.82	0.78	0.30	0.78	0.49	0.90
Avail Cap(c_a), veh/h	577	710	730	649	503	498	360	1151	508	1259	1151	510
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.0	28.4	28.4	54.9	43.6	43.6	56.0	42.4	36.6	55.9	37.9	43.5
Incr Delay (d2), s/veh	15.0	0.5	0.4	4.3	30.1	30.3	4.4	2.2	0.2	1.9	0.1	15.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.8	8.6	8.9	4.6	18.5	18.3	3.7	10.4	3.0	3.3	6.0	13.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	62.0	28.8	28.8	59.1	73.7	73.9	60.4	44.6	36.7	57.8	38.1	59.4
LnGrp LOS	E	C	C	E	E	E	E	D	D	E	D	E
Approach Vol, veh/h		1151			1108			966			1069	
Approach Delay, s/veh		39.6			71.8			45.5			49.7	
Approach LOS		D			E			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.5	37.6	16.8	54.7	13.4	38.7	31.2	40.3
Change Period (Y+Rc), s	4.8	* 5.3	4.8	* 5.3	3.5	5.3	3.5	5.3
Max Green Setting (Gmax), s	45.0	* 40	45.0	* 35	25.0	40.0	40.0	35.0
Max Q Clear Time (g_c+I1), s	9.5	25.4	12.0	22.4	10.0	31.1	27.4	35.1
Green Ext Time (p_c), s	0.2	2.4	0.1	2.0	0.1	1.5	0.3	0.0

Intersection Summary	
HCM 6th Ctrl Delay	51.8
HCM 6th LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

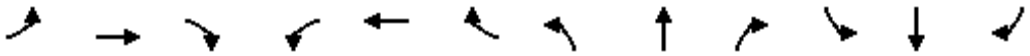


Lane Group	EBL	EBT	WBT	WBR	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	48	37	132	1595	62	1105	1716	863
v/c Ratio	0.46	0.30	0.41	0.97	0.55	0.84	1.37	0.29
Control Delay	79.6	33.4	57.1	39.0	83.5	54.1	207.1	16.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	79.6	33.4	57.1	39.0	83.5	54.1	207.1	16.4
Queue Length 50th (ft)	43	7	109	494	56	346	~1085	149
Queue Length 95th (ft)	92	46	192	#1085	112	416	#1360	202
Internal Link Dist (ft)		422	383			699		992
Turn Bay Length (ft)					170		260	
Base Capacity (vph)	193	205	325	1638	258	1642	1252	2940
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.25	0.18	0.41	0.97	0.24	0.67	1.37	0.29

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	48	8	29	112	20	1595	62	952	153	1716	846	17
Future Volume (vph)	48	8	29	112	20	1595	62	952	153	1716	846	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Lane Util. Factor	1.00	1.00			1.00	0.88	1.00	0.91		0.97	0.91	
Frpb, ped/bikes	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	0.88			1.00	0.85	1.00	0.98		1.00	1.00	
Flt Protected	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1644			1787	2773	1770	4965		3433	5068	
Flt Permitted	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1644			1787	2773	1770	4965		3433	5068	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	48	8	29	112	20	1595	62	952	153	1716	846	17
RTOR Reduction (vph)	0	28	0	0	0	124	0	15	0	0	1	0
Lane Group Flow (vph)	48	9	0	0	132	1471	62	1090	0	1716	862	0
Confl. Peds. (#/hr)						2			6			1
Confl. Bikes (#/hr)									1			
Turn Type	Split	NA		Split	NA	pm+ov	Prot	NA		Prot	NA	
Protected Phases	4	4		3	3	1	5	2		1	6	
Permitted Phases						3						
Actuated Green, G (s)	7.1	7.1			25.2	75.6	7.7	37.5		50.4	80.2	
Effective Green, g (s)	7.1	7.1			25.2	75.6	7.7	37.5		50.4	80.2	
Actuated g/C Ratio	0.05	0.05			0.18	0.54	0.05	0.27		0.36	0.57	
Clearance Time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Vehicle Extension (s)	2.0	2.0			2.0	2.0	1.5	2.0		2.0	2.0	
Lane Grp Cap (vph)	89	83			320	1492	97	1325		1231	2892	
v/s Ratio Prot	c0.03	0.01			0.07	c0.35	0.04	c0.22		c0.50	0.17	
v/s Ratio Perm						0.18						
v/c Ratio	0.54	0.11			0.41	0.99	0.64	0.82		1.39	0.30	
Uniform Delay, d1	65.1	63.7			51.1	31.9	65.0	48.4		45.0	15.6	
Progression Factor	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	3.1	0.2			0.3	19.8	9.7	4.1		182.3	0.0	
Delay (s)	68.2	63.9			51.4	51.7	74.8	52.4		227.4	15.6	
Level of Service	E	E			D	D	E	D		F	B	
Approach Delay (s)		66.4			51.7			53.6			156.5	
Approach LOS		E			D			D			F	

Intersection Summary			
HCM 2000 Control Delay	101.0	HCM 2000 Level of Service	F
HCM 2000 Volume to Capacity ratio	1.08		
Actuated Cycle Length (s)	140.5	Sum of lost time (s)	20.3
Intersection Capacity Utilization	98.5%	ICU Level of Service	F
Analysis Period (min)	15		

c Critical Lane Group

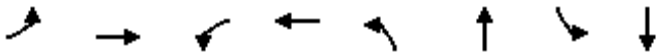
Intersection	
Int Delay, s/veh	0.9

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations							
Traffic Vol, veh/h	1	1040	53	18	1111	36	17
Future Vol, veh/h	1	1040	53	18	1111	36	17
Conflicting Peds, #/hr	0	0	2	2	0	0	0
Sign Control	Free	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0	-
Veh in Median Storage, #	-	0	-	-	0	1	-
Grade, %	-	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100	100
Heavy Vehicles, %	2	2	2	2	2	2	2
Mvmt Flow	1	1040	53	18	1111	36	17

Major/Minor	Major1			Major2		Minor1	
Conflicting Flow All	1111	0	0	1095	0	1663	549
Stage 1	-	-	-	-	-	1071	-
Stage 2	-	-	-	-	-	592	-
Critical Hdwy	6.44	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	-	5.84	-
Follow-up Hdwy	2.52	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	282	-	-	633	-	88	480
Stage 1	-	-	-	-	-	290	-
Stage 2	-	-	-	-	-	516	-
Platoon blocked, %		-	-		-		
Mov Cap-1 Maneuver	282	-	-	632	-	81	479
Mov Cap-2 Maneuver	-	-	-	-	-	198	-
Stage 1	-	-	-	-	-	287	-
Stage 2	-	-	-	-	-	478	-

Approach	EB	WB	NB
HCM Control Delay, s	0.1	0.6	23.8
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	244	-	-	632	-
HCM Lane V/C Ratio	0.217	-	-	0.028	-
HCM Control Delay (s)	23.8	0.1	-	10.9	0.4
HCM Lane LOS	C	A	-	B	A
HCM 95th %tile Q(veh)	0.8	-	-	0.1	-



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	248	393	61	488	84	720	104	467
v/c Ratio	0.70	0.33	0.40	0.71	0.47	0.76	0.52	0.42
Control Delay	49.0	25.7	54.8	40.9	54.6	39.2	53.9	25.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	49.0	25.7	54.8	40.9	54.6	39.2	53.9	25.1
Queue Length 50th (ft)	143	96	36	138	50	202	61	95
Queue Length 95th (ft)	267	156	91	232	116	#379	137	190
Internal Link Dist (ft)		1060		2431		769		1211
Turn Bay Length (ft)	125		120		180		130	
Base Capacity (vph)	750	1849	481	1305	577	1321	481	1156
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.33	0.21	0.13	0.37	0.15	0.55	0.22	0.40

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	248	343	50	61	350	138	84	615	105	104	282	185
Future Volume (veh/h)	248	343	50	61	350	138	84	615	105	104	282	185
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.99	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	248	343	50	61	350	138	84	615	105	104	282	185
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	298	1027	148	78	517	200	109	792	135	135	571	363
Arrive On Green	0.17	0.33	0.33	0.04	0.21	0.21	0.06	0.26	0.26	0.08	0.28	0.28
Sat Flow, veh/h	1781	3107	448	1781	2496	967	1781	3028	516	1781	2070	1314
Grp Volume(v), veh/h	248	195	198	61	247	241	84	360	360	104	241	226
Grp Sat Flow(s),veh/h/ln	1781	1777	1778	1781	1777	1686	1781	1777	1767	1781	1777	1607
Q Serve(g_s), s	9.3	5.7	5.8	2.4	8.9	9.2	3.2	13.0	13.1	4.0	7.9	8.2
Cycle Q Clear(g_c), s	9.3	5.7	5.8	2.4	8.9	9.2	3.2	13.0	13.1	4.0	7.9	8.2
Prop In Lane	1.00		0.25	1.00		0.57	1.00		0.29	1.00		0.82
Lane Grp Cap(c), veh/h	298	587	588	78	368	349	109	465	462	135	490	444
V/C Ratio(X)	0.83	0.33	0.34	0.78	0.67	0.69	0.77	0.78	0.78	0.77	0.49	0.51
Avail Cap(c_a), veh/h	1001	896	897	642	896	851	770	768	764	642	768	695
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.0	17.5	17.5	32.8	25.3	25.4	32.1	23.7	23.8	31.5	21.0	21.2
Incr Delay (d2), s/veh	2.3	0.1	0.1	6.1	0.8	0.9	4.2	1.1	1.1	3.4	0.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	2.2	2.3	1.1	3.6	3.6	1.5	5.3	5.3	1.8	3.1	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.3	17.6	17.6	39.0	26.1	26.3	36.3	24.8	24.8	34.9	21.3	21.5
LnGrp LOS	C	B	B	D	C	C	D	C	C	C	C	C
Approach Vol, veh/h		641			549			804			571	
Approach Delay, s/veh		22.5			27.7			26.0			23.9	
Approach LOS		C			C			C			C	

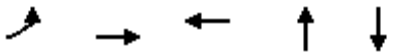
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.0	27.9	10.3	23.1	16.6	19.4	9.3	24.1
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	25.0	35.0	25.0	30.0	39.0	35.0	30.0	30.0
Max Q Clear Time (g_c+I1), s	4.4	7.8	6.0	15.1	11.3	11.2	5.2	10.2
Green Ext Time (p_c), s	0.1	1.5	0.1	2.7	0.3	2.0	0.1	1.8

Intersection Summary	
HCM 6th Ctrl Delay	25.0
HCM 6th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.

Appendix G – Cumulative Conditions Intersections Level of Service Worksheets



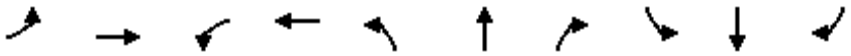
Lane Group	EBL	EBT	WBT	NBT	SBT
Lane Group Flow (vph)	9	1992	679	53	1
v/c Ratio	0.06	0.67	0.24	0.18	0.00
Control Delay	24.4	4.6	3.3	1.4	0.0
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	24.4	4.6	3.3	1.4	0.0
Queue Length 50th (ft)	3	143	26	0	0
Queue Length 95th (ft)	14	213	86	0	0
Internal Link Dist (ft)		1105	809	608	371
Turn Bay Length (ft)	100				
Base Capacity (vph)	325	2987	2999	759	824
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.03	0.67	0.23	0.07	0.00

Intersection Summary

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	1929	63	0	678	1	40	0	13	0	0	1
Future Volume (vph)	9	1929	63	0	678	1	40	0	13	0	0	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0			5.0			5.0	
Lane Util. Factor	1.00	0.95			0.95			1.00			1.00	
Frpb, ped/bikes	1.00	1.00			1.00			1.00			1.00	
Flpb, ped/bikes	1.00	1.00			1.00			1.00			1.00	
Frt	1.00	1.00			1.00			0.97			0.86	
Flt Protected	0.95	1.00			1.00			0.96			1.00	
Satd. Flow (prot)	1770	3519			3538			1736			1611	
Flt Permitted	0.95	1.00			1.00			1.00			1.00	
Satd. Flow (perm)	1770	3519			3538			1801			1611	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	9	1929	63	0	678	1	40	0	13	0	0	1
RTOR Reduction (vph)	0	1	0	0	0	0	0	51	0	0	1	0
Lane Group Flow (vph)	9	1991	0	0	679	0	0	2	0	0	0	0
Confl. Peds. (#/hr)			8			4						
Confl. Bikes (#/hr)			2			2						
Turn Type	Prot	NA		Prot	NA		Perm	NA			NA	
Protected Phases	5	2		1	6			4			4	
Permitted Phases							4			4		
Actuated Green, G (s)	1.1	48.3			42.2			2.6			2.6	
Effective Green, g (s)	1.1	48.3			42.2			2.6			2.6	
Actuated g/C Ratio	0.02	0.79			0.69			0.04			0.04	
Clearance Time (s)	5.0	5.0			5.0			5.0			5.0	
Vehicle Extension (s)	2.0	1.5			1.5			2.0			2.0	
Lane Grp Cap (vph)	31	2790			2451			76			68	
v/s Ratio Prot	0.01	c0.57			0.19						0.00	
v/s Ratio Perm								c0.00				
v/c Ratio	0.29	0.71			0.28			0.03			0.00	
Uniform Delay, d1	29.5	3.0			3.6			27.9			27.9	
Progression Factor	1.00	1.00			1.00			1.00			1.00	
Incremental Delay, d2	1.9	1.6			0.3			0.1			0.0	
Delay (s)	31.4	4.6			3.8			28.0			27.9	
Level of Service	C	A			A			C			C	
Approach Delay (s)		4.7			3.8			28.0			27.9	
Approach LOS		A			A			C			C	

Intersection Summary			
HCM 2000 Control Delay	5.0	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.75		
Actuated Cycle Length (s)	60.9	Sum of lost time (s)	15.0
Intersection Capacity Utilization	73.4%	ICU Level of Service	D
Analysis Period (min)	15		

c Critical Lane Group



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	621	1612	167	688	43	464	237	180	998	234
v/c Ratio	1.15	1.16	0.75	0.86	0.45	0.55	0.49	0.63	0.97	0.43
Control Delay	128.9	117.1	78.0	60.5	78.2	47.2	20.2	70.2	68.6	18.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	128.9	117.1	78.0	60.5	78.2	47.2	20.2	70.2	68.6	18.3
Queue Length 50th (ft)	~666	~903	146	303	38	186	61	80	460	61
Queue Length 95th (ft)	#958	#1153	227	390	80	257	152	124	#647	147
Internal Link Dist (ft)		863		1273		857			699	
Turn Bay Length (ft)	200		235		125		130	195		
Base Capacity (vph)	540	1389	608	1083	338	1081	579	1180	1649	793
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.15	1.16	0.27	0.64	0.13	0.43	0.41	0.15	0.61	0.30

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	621	1397	215	167	555	133	43	464	237	180	998	234
Future Volume (veh/h)	621	1397	215	167	555	133	43	464	237	180	998	234
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		1.00	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	621	1397	215	167	555	133	43	464	237	180	998	234
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	556	1273	193	193	626	149	55	897	398	236	1065	464
Arrive On Green	0.31	0.41	0.41	0.11	0.22	0.22	0.03	0.25	0.25	0.07	0.30	0.30
Sat Flow, veh/h	1781	3079	468	1781	2843	679	1781	3554	1578	3456	3554	1549
Grp Volume(v), veh/h	621	798	814	167	346	342	43	464	237	180	998	234
Grp Sat Flow(s),veh/h/ln	1781	1777	1770	1781	1777	1745	1781	1777	1578	1728	1777	1549
Q Serve(g_s), s	40.0	53.0	53.0	11.8	24.2	24.4	3.1	14.4	17.0	6.6	35.1	16.0
Cycle Q Clear(g_c), s	40.0	53.0	53.0	11.8	24.2	24.4	3.1	14.4	17.0	6.6	35.1	16.0
Prop In Lane	1.00		0.26	1.00		0.39	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	556	734	732	193	391	384	55	897	398	236	1065	464
V/C Ratio(X)	1.12	1.09	1.11	0.86	0.88	0.89	0.78	0.52	0.60	0.76	0.94	0.50
Avail Cap(c_a), veh/h	556	734	732	625	485	476	347	1108	492	1212	1108	483
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.1	37.6	37.6	56.2	48.4	48.5	61.7	41.2	42.2	58.7	43.7	37.1
Incr Delay (d2), s/veh	74.8	59.2	68.5	4.4	13.3	14.2	8.3	0.2	0.5	1.9	13.9	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	28.8	34.4	36.1	5.5	12.1	12.0	1.5	6.3	6.6	2.9	17.2	6.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	119.0	96.8	106.1	60.6	61.7	62.7	70.0	41.4	42.7	60.7	57.6	37.4
LnGrp LOS	F	F	F	E	E	E	E	D	D	E	E	D
Approach Vol, veh/h		2233			855			744			1412	
Approach Delay, s/veh		106.4			61.9			43.5			54.6	
Approach LOS		F			E			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.6	37.7	18.7	58.3	7.5	43.7	43.5	33.5
Change Period (Y+Rc), s	4.8	* 5.3	4.8	* 5.3	3.5	5.3	3.5	5.3
Max Green Setting (Gmax), s	45.0	* 40	45.0	* 35	25.0	40.0	40.0	35.0
Max Q Clear Time (g_c+I1), s	8.6	19.0	13.8	55.0	5.1	37.1	42.0	26.4
Green Ext Time (p_c), s	0.2	1.7	0.1	0.0	0.0	1.3	0.0	1.5

Intersection Summary	
HCM 6th Ctrl Delay	76.3
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.

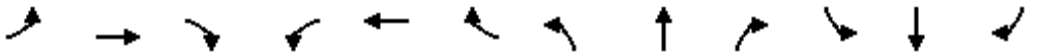
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Lane Group	EBL	EBT	WBT	WBR	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	25	22	87	803	42	951	1345	1404
v/c Ratio	0.26	0.21	0.44	0.45	0.40	0.79	0.89	0.45
Control Delay	64.1	39.8	58.0	3.6	67.8	46.7	41.2	12.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	64.1	39.8	58.0	3.6	67.8	46.7	41.2	12.7
Queue Length 50th (ft)	19	7	63	32	31	247	491	195
Queue Length 95th (ft)	52	37	125	71	76	325	#809	294
Internal Link Dist (ft)		422	383			699		992
Turn Bay Length (ft)					170		260	
Base Capacity (vph)	388	378	391	1959	310	1981	1506	3252
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.06	0.06	0.22	0.41	0.14	0.48	0.89	0.43

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	25	9	13	78	9	803	42	858	93	1345	1115	289
Future Volume (vph)	25	9	13	78	9	803	42	858	93	1345	1115	289
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Lane Util. Factor	1.00	1.00			1.00	0.88	1.00	0.91		0.97	0.91	
Frpb, ped/bikes	1.00	0.99			1.00	1.00	1.00	1.00		1.00	0.99	
Flpb, ped/bikes	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	0.91			1.00	0.85	1.00	0.99		1.00	0.97	
Flt Protected	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1680			1783	2779	1770	5002		3433	4897	
Flt Permitted	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1680			1783	2779	1770	5002		3433	4897	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	25	9	13	78	9	803	42	858	93	1345	1115	289
RTOR Reduction (vph)	0	12	0	0	0	263	0	8	0	0	19	0
Lane Group Flow (vph)	25	10	0	0	87	540	42	943	0	1345	1385	0
Confl. Peds. (#/hr)			5			2			4			5
Confl. Bikes (#/hr)												1
Turn Type	Split	NA		Split	NA	pm+ov	Prot	NA		Prot	NA	
Protected Phases	4	4		3	3	1	5	2		1	6	
Permitted Phases						3						
Actuated Green, G (s)	5.2	5.2			12.8	63.7	5.9	29.0		50.9	74.0	
Effective Green, g (s)	5.2	5.2			12.8	63.7	5.9	29.0		50.9	74.0	
Actuated g/C Ratio	0.04	0.04			0.11	0.54	0.05	0.25		0.43	0.63	
Clearance Time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Vehicle Extension (s)	2.0	2.0			2.0	2.0	1.5	2.0		2.0	2.0	
Lane Grp Cap (vph)	77	73			193	1497	88	1227		1478	3065	
v/s Ratio Prot	c0.01	0.01			c0.05	0.16	0.02	c0.19		c0.39	0.28	
v/s Ratio Perm						0.04						
v/c Ratio	0.32	0.13			0.45	0.36	0.48	0.77		0.91	0.45	
Uniform Delay, d1	54.8	54.3			49.4	15.6	54.6	41.5		31.5	11.5	
Progression Factor	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.9	0.3			0.6	0.1	1.5	2.7		8.5	0.0	
Delay (s)	55.7	54.6			50.0	15.6	56.1	44.1		40.0	11.6	
Level of Service	E	D			D	B	E	D		D	B	
Approach Delay (s)		55.2			19.0			44.6			25.5	
Approach LOS		E			B			D			C	

Intersection Summary			
HCM 2000 Control Delay	28.6	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.78		
Actuated Cycle Length (s)	118.2	Sum of lost time (s)	20.3
Intersection Capacity Utilization	82.8%	ICU Level of Service	E
Analysis Period (min)	15		

c Critical Lane Group

Intersection	
Int Delay, s/veh	7.1

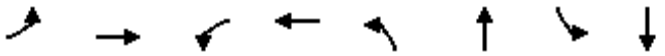
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1878	146	16	741	71	40
Future Vol, veh/h	1878	146	16	741	71	40
Conflicting Peds, #/hr	0	5	5	0	1	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1878	146	16	741	71	40

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	2029	0	2360	1017
Stage 1	-	-	-	-	1956	-
Stage 2	-	-	-	-	404	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	276	-	~ 30	235
Stage 1	-	-	-	-	96	-
Stage 2	-	-	-	-	643	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	275	-	~ 27	234
Mov Cap-2 Maneuver	-	-	-	-	81	-
Stage 1	-	-	-	-	96	-
Stage 2	-	-	-	-	579	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.3	176.5
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	106	-	-	275	-
HCM Lane V/C Ratio	1.047	-	-	0.058	-
HCM Control Delay (s)	176.5	-	-	18.9	0.9
HCM Lane LOS	F	-	-	C	A
HCM 95th %tile Q(veh)	6.8	-	-	0.2	-

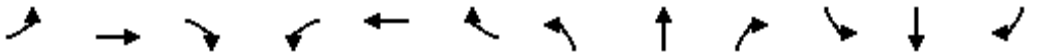
Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	372	984	99	458	63	722	161	388
v/c Ratio	0.81	0.82	0.57	0.71	0.46	0.85	0.67	0.35
Control Delay	56.1	41.6	65.9	50.7	66.6	50.1	63.8	29.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	56.1	41.6	65.9	50.7	66.6	50.1	63.8	29.1
Queue Length 50th (ft)	261	352	72	166	46	243	116	101
Queue Length 95th (ft)	437	507	147	258	104	#443	214	178
Internal Link Dist (ft)		1060		2431		769		1211
Turn Bay Length (ft)	125		120		180		130	
Base Capacity (vph)	629	1559	403	1105	484	1106	403	1113
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.59	0.63	0.25	0.41	0.13	0.65	0.40	0.35

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



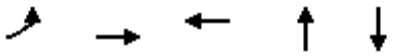
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	372	862	122	99	369	89	63	461	261	161	257	131
Future Volume (veh/h)	372	862	122	99	369	89	63	461	261	161	257	131
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		0.98	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	372	862	122	99	369	89	63	461	261	161	257	131
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	412	1056	150	127	507	121	82	552	310	197	730	360
Arrive On Green	0.23	0.34	0.34	0.07	0.18	0.18	0.05	0.25	0.25	0.11	0.32	0.32
Sat Flow, veh/h	1781	3118	441	1781	2834	675	1781	2178	1224	1781	2295	1131
Grp Volume(v), veh/h	372	491	493	99	230	228	63	376	346	161	197	191
Grp Sat Flow(s),veh/h/ln	1781	1777	1783	1781	1777	1732	1781	1777	1625	1781	1777	1648
Q Serve(g_s), s	18.0	22.4	22.4	4.8	10.8	11.1	3.1	17.7	17.9	7.8	7.5	7.9
Cycle Q Clear(g_c), s	18.0	22.4	22.4	4.8	10.8	11.1	3.1	17.7	17.9	7.8	7.5	7.9
Prop In Lane	1.00		0.25	1.00		0.39	1.00		0.75	1.00		0.69
Lane Grp Cap(c), veh/h	412	602	604	127	318	310	82	450	412	197	565	525
V/C Ratio(X)	0.90	0.82	0.82	0.78	0.72	0.74	0.77	0.83	0.84	0.82	0.35	0.36
Avail Cap(c_a), veh/h	784	701	704	502	701	684	603	601	550	502	601	558
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	33.1	26.8	26.8	40.5	34.3	34.4	41.8	31.3	31.4	38.5	23.2	23.3
Incr Delay (d2), s/veh	3.1	5.6	5.6	3.8	1.2	1.3	5.6	5.8	6.8	3.1	0.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.8	9.9	9.9	2.2	4.6	4.6	1.5	8.0	7.5	3.5	3.1	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	36.2	32.4	32.3	44.3	35.5	35.7	47.4	37.1	38.2	41.7	23.3	23.5
LnGrp LOS	D	C	C	D	D	D	D	D	D	D	C	C
Approach Vol, veh/h		1356			557			785			549	
Approach Delay, s/veh		33.4			37.1			38.4			28.7	
Approach LOS		C			D			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.3	35.0	14.8	27.5	25.5	20.9	9.1	33.2
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	25.0	35.0	25.0	30.0	39.0	35.0	30.0	30.0
Max Q Clear Time (g_c+I1), s	6.8	24.4	9.8	19.9	20.0	13.1	5.1	9.9
Green Ext Time (p_c), s	0.1	3.2	0.2	2.2	0.5	1.6	0.1	1.4

Intersection Summary	
HCM 6th Ctrl Delay	34.5
HCM 6th LOS	C

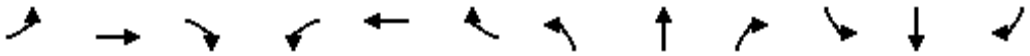
Notes

User approved pedestrian interval to be less than phase max green.



Lane Group	EBL	EBT	WBT	NBT	SBT
Lane Group Flow (vph)	1	1090	1171	40	10
v/c Ratio	0.01	0.36	0.41	0.14	0.04
Control Delay	24.0	2.3	4.1	0.9	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	24.0	2.3	4.1	0.9	0.3
Queue Length 50th (ft)	0	48	54	0	0
Queue Length 95th (ft)	4	70	166	0	0
Internal Link Dist (ft)		1105	809	608	371
Turn Bay Length (ft)	100				
Base Capacity (vph)	326	2991	3008	777	662
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.00	0.36	0.39	0.05	0.02

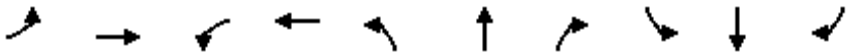
Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	1063	27	0	1170	1	38	0	2	2	0	8
Future Volume (vph)	1	1063	27	0	1170	1	38	0	2	2	0	8
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0			5.0			5.0	
Lane Util. Factor	1.00	0.95			0.95			1.00			1.00	
Frpb, ped/bikes	1.00	1.00			1.00			1.00			1.00	
Flpb, ped/bikes	1.00	1.00			1.00			1.00			1.00	
Frt	1.00	1.00			1.00			0.99			0.89	
Flt Protected	0.95	1.00			1.00			0.95			0.99	
Satd. Flow (prot)	1770	3524			3539			1765			1645	
Flt Permitted	0.95	1.00			1.00			1.00			0.92	
Satd. Flow (perm)	1770	3524			3539			1848			1534	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	1	1063	27	0	1170	1	38	0	2	2	0	8
RTOR Reduction (vph)	0	1	0	0	0	0	0	38	0	0	10	0
Lane Group Flow (vph)	1	1089	0	0	1171	0	0	2	0	0	0	0
Confl. Peds. (#/hr)			3			2			1			
Confl. Bikes (#/hr)			2			1						
Turn Type	Prot	NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases	5	2		1	6			4			4	
Permitted Phases							4			4		
Actuated Green, G (s)	0.9	48.1			42.2			2.6			2.6	
Effective Green, g (s)	0.9	48.1			42.2			2.6			2.6	
Actuated g/C Ratio	0.01	0.79			0.70			0.04			0.04	
Clearance Time (s)	5.0	5.0			5.0			5.0			5.0	
Vehicle Extension (s)	2.0	1.5			1.5			2.0			2.0	
Lane Grp Cap (vph)	26	2792			2460			79			65	
v/s Ratio Prot	0.00	c0.31			c0.33							
v/s Ratio Perm								c0.00			0.00	
v/c Ratio	0.04	0.39			0.48			0.02			0.01	
Uniform Delay, d1	29.5	1.9			4.2			27.8			27.8	
Progression Factor	1.00	1.00			1.00			1.00			1.00	
Incremental Delay, d2	0.2	0.4			0.7			0.0			0.0	
Delay (s)	29.7	2.3			4.9			27.9			27.8	
Level of Service	C	A			A			C			C	
Approach Delay (s)		2.3			4.9			27.9			27.8	
Approach LOS		A			A			C			C	

Intersection Summary			
HCM 2000 Control Delay	4.2	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.47		
Actuated Cycle Length (s)	60.7	Sum of lost time (s)	15.0
Intersection Capacity Utilization	48.7%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

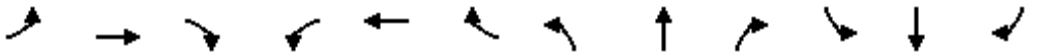


Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	389	803	157	994	154	930	158	259	560	419
v/c Ratio	0.82	0.60	0.77	1.22	0.78	0.98	0.32	0.74	0.60	0.58
Control Delay	66.3	40.2	88.1	154.9	89.3	78.0	16.2	78.1	51.5	7.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	66.3	40.2	88.1	154.9	89.3	78.0	16.2	78.1	51.5	7.5
Queue Length 50th (ft)	356	324	150	~616	148	473	34	127	251	0
Queue Length 95th (ft)	#540	446	228	#791	225	#649	100	176	335	95
Internal Link Dist (ft)		863		1273		857			699	
Turn Bay Length (ft)	200		235		125		130	195		
Base Capacity (vph)	475	1340	535	956	297	951	497	1038	1450	883
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.82	0.60	0.29	1.04	0.52	0.98	0.32	0.25	0.39	0.47

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	389	749	54	157	834	160	154	930	158	259	560	419
Future Volume (veh/h)	389	749	54	157	834	160	154	930	158	259	560	419
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.98	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	389	749	54	157	834	160	154	930	158	259	560	419
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	412	1268	91	182	763	146	179	999	441	313	999	443
Arrive On Green	0.23	0.38	0.38	0.10	0.26	0.26	0.10	0.28	0.28	0.09	0.28	0.28
Sat Flow, veh/h	1781	3359	242	1781	2961	568	1781	3554	1570	3456	3554	1577
Grp Volume(v), veh/h	389	396	407	157	500	494	154	930	158	259	560	419
Grp Sat Flow(s),veh/h/ln	1781	1777	1824	1781	1777	1752	1781	1777	1570	1728	1777	1577
Q Serve(g_s), s	29.2	24.3	24.3	11.8	35.0	35.0	11.6	34.6	10.9	10.0	18.3	35.3
Cycle Q Clear(g_c), s	29.2	24.3	24.3	11.8	35.0	35.0	11.6	34.6	10.9	10.0	18.3	35.3
Prop In Lane	1.00		0.13	1.00		0.32	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	412	671	689	182	458	451	179	999	441	313	999	443
V/C Ratio(X)	0.94	0.59	0.59	0.86	1.09	1.09	0.86	0.93	0.36	0.83	0.56	0.95
Avail Cap(c_a), veh/h	525	671	689	590	458	451	328	1046	462	1145	1046	464
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.3	33.9	33.9	60.0	50.4	50.4	60.2	47.5	39.0	60.7	41.7	47.8
Incr Delay (d2), s/veh	21.0	1.0	0.9	4.6	69.7	69.9	4.7	13.5	0.2	2.1	0.3	27.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	15.3	10.6	10.8	5.5	24.2	23.9	5.4	17.0	4.2	4.5	8.0	17.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	72.3	34.8	34.8	64.7	120.1	120.4	64.9	61.0	39.2	62.9	42.0	75.1
LnGrp LOS	E	C	C	E	F	F	E	E	D	E	D	E
Approach Vol, veh/h		1192			1151			1242			1238	
Approach Delay, s/veh		47.1			112.6			58.7			57.6	
Approach LOS		D			F			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.1	43.5	18.7	56.6	17.1	43.5	34.9	40.3
Change Period (Y+Rc), s	4.8	* 5.3	4.8	* 5.3	3.5	5.3	3.5	5.3
Max Green Setting (Gmax), s	45.0	* 40	45.0	* 35	25.0	40.0	40.0	35.0
Max Q Clear Time (g_c+I1), s	12.0	36.6	13.8	26.3	13.6	37.3	31.2	37.0
Green Ext Time (p_c), s	0.3	1.4	0.1	1.8	0.1	0.8	0.3	0.0

Intersection Summary	
HCM 6th Ctrl Delay	68.4
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

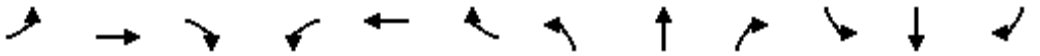


Lane Group	EBL	EBT	WBT	WBR	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	48	37	195	1777	79	1373	1779	1007
v/c Ratio	0.48	0.31	0.63	1.14	0.63	0.92	1.50	0.35
Control Delay	83.1	34.2	67.5	95.9	87.8	59.3	263.1	17.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	83.1	34.2	67.5	95.9	87.8	59.3	263.1	17.8
Queue Length 50th (ft)	46	8	179	~1106	76	464	~1245	185
Queue Length 95th (ft)	92	46	275	#1305	133	#571	#1426	248
Internal Link Dist (ft)		422	383			699		992
Turn Bay Length (ft)					170		260	
Base Capacity (vph)	183	196	309	1562	245	1560	1187	2904
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.26	0.19	0.63	1.14	0.32	0.88	1.50	0.35

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	48	8	29	157	38	1777	79	1196	177	1779	987	20
Future Volume (vph)	48	8	29	157	38	1777	79	1196	177	1779	987	20
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Lane Util. Factor	1.00	1.00			1.00	0.88	1.00	0.91		0.97	0.91	
Frpb, ped/bikes	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	0.88			1.00	0.85	1.00	0.98		1.00	1.00	
Flt Protected	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1644			1791	2773	1770	4973		3433	5068	
Flt Permitted	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1644			1791	2773	1770	4973		3433	5068	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	48	8	29	157	38	1777	79	1196	177	1779	987	20
RTOR Reduction (vph)	0	28	0	0	0	125	0	13	0	0	1	0
Lane Group Flow (vph)	48	9	0	0	195	1652	79	1360	0	1779	1006	0
Confl. Peds. (#/hr)						2			6			1
Confl. Bikes (#/hr)									1			
Turn Type	Split	NA		Split	NA	pm+ov	Prot	NA		Prot	NA	
Protected Phases	4	4		3	3	1	5	2		1	6	
Permitted Phases						3						
Actuated Green, G (s)	7.3	7.3			25.1	75.3	10.4	43.4		50.2	83.2	
Effective Green, g (s)	7.3	7.3			25.1	75.3	10.4	43.4		50.2	83.2	
Actuated g/C Ratio	0.05	0.05			0.17	0.51	0.07	0.30		0.34	0.57	
Clearance Time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Vehicle Extension (s)	2.0	2.0			2.0	2.0	1.5	2.0		2.0	2.0	
Lane Grp Cap (vph)	88	82			307	1427	125	1475		1177	2882	
v/s Ratio Prot	c0.03	0.01			0.11	c0.40	0.04	c0.27		c0.52	0.20	
v/s Ratio Perm						0.20						
v/c Ratio	0.55	0.12			0.64	1.16	0.63	0.92		1.51	0.35	
Uniform Delay, d1	67.9	66.4			56.3	35.5	66.1	49.8		48.1	17.0	
Progression Factor	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	3.7	0.2			3.1	79.3	7.4	9.7		234.6	0.0	
Delay (s)	71.5	66.6			59.5	114.8	73.5	59.5		282.6	17.0	
Level of Service	E	E			E	F	E	E		F	B	
Approach Delay (s)		69.4			109.4			60.3			186.6	
Approach LOS		E			F			E			F	

Intersection Summary			
HCM 2000 Control Delay	131.7	HCM 2000 Level of Service	F
HCM 2000 Volume to Capacity ratio	1.18		
Actuated Cycle Length (s)	146.3	Sum of lost time (s)	20.3
Intersection Capacity Utilization	108.6%	ICU Level of Service	G
Analysis Period (min)	15		

c Critical Lane Group

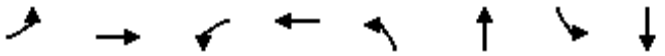
Intersection	
Int Delay, s/veh	1

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations							
Traffic Vol, veh/h	1	1101	60	20	1163	40	19
Future Vol, veh/h	1	1101	60	20	1163	40	19
Conflicting Peds, #/hr	0	0	2	2	0	0	0
Sign Control	Free	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0	-
Veh in Median Storage, #	-	0	-	-	0	1	-
Grade, %	-	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100	100
Heavy Vehicles, %	2	2	2	2	2	2	2
Mvmt Flow	1	1101	60	20	1163	40	19

Major/Minor	Major1			Major2		Minor1	
Conflicting Flow All	1163	0	0	1163	0	1757	583
Stage 1	-	-	-	-	-	1135	-
Stage 2	-	-	-	-	-	622	-
Critical Hdwy	6.44	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	-	5.84	-
Follow-up Hdwy	2.52	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	261	-	-	596	-	76	456
Stage 1	-	-	-	-	-	269	-
Stage 2	-	-	-	-	-	498	-
Platoon blocked, %		-	-		-		
Mov Cap-1 Maneuver	261	-	-	595	-	68	455
Mov Cap-2 Maneuver	-	-	-	-	-	181	-
Stage 1	-	-	-	-	-	266	-
Stage 2	-	-	-	-	-	451	-

Approach	EB	WB	NB
HCM Control Delay, s	0.1	0.7	26.6
HCM LOS			D

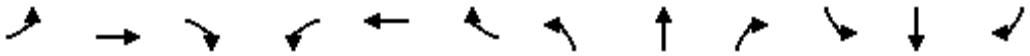
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	225	-	-	595	-
HCM Lane V/C Ratio	0.262	-	-	0.034	-
HCM Control Delay (s)	26.6	0.1	-	11.3	0.5
HCM Lane LOS	D	A	-	B	A
HCM 95th %tile Q(veh)	1	-	-	0.1	-



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	282	446	66	543	99	844	113	507
v/c Ratio	0.77	0.36	0.46	0.76	0.55	0.84	0.58	0.49
Control Delay	55.6	26.9	61.3	46.2	60.7	46.7	60.5	30.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	55.6	26.9	61.3	46.2	60.7	46.7	60.5	30.0
Queue Length 50th (ft)	179	116	43	171	64	275	73	120
Queue Length 95th (ft)	321	183	105	277	142	#564	156	234
Internal Link Dist (ft)		1060		2431		769		1211
Turn Bay Length (ft)	125		120		180		130	
Base Capacity (vph)	661	1648	423	1152	508	1166	423	1038
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.43	0.27	0.16	0.47	0.19	0.72	0.27	0.49

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	282	389	57	66	389	154	99	724	120	113	306	201
Future Volume (veh/h)	282	389	57	66	389	154	99	724	120	113	306	201
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.99	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	282	389	57	66	389	154	99	724	120	113	306	201
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	325	1079	157	86	531	207	128	860	142	145	603	385
Arrive On Green	0.18	0.35	0.35	0.05	0.21	0.21	0.07	0.28	0.28	0.08	0.29	0.29
Sat Flow, veh/h	1781	3104	451	1781	2490	972	1781	3042	504	1781	2065	1319
Grp Volume(v), veh/h	282	221	225	66	276	267	99	423	421	113	262	245
Grp Sat Flow(s),veh/h/ln	1781	1777	1778	1781	1777	1686	1781	1777	1770	1781	1777	1607
Q Serve(g_s), s	12.8	7.7	7.9	3.0	12.0	12.3	4.5	18.6	18.7	5.2	10.2	10.6
Cycle Q Clear(g_c), s	12.8	7.7	7.9	3.0	12.0	12.3	4.5	18.6	18.7	5.2	10.2	10.6
Prop In Lane	1.00		0.25	1.00		0.58	1.00		0.28	1.00		0.82
Lane Grp Cap(c), veh/h	325	618	618	86	379	360	128	502	500	145	519	469
V/C Ratio(X)	0.87	0.36	0.36	0.77	0.73	0.74	0.77	0.84	0.84	0.78	0.51	0.52
Avail Cap(c_a), veh/h	835	748	748	535	748	709	642	641	638	535	641	579
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	33.0	20.2	20.3	39.1	30.5	30.6	37.9	28.1	28.1	37.5	24.5	24.6
Incr Delay (d2), s/veh	2.8	0.1	0.1	5.4	1.0	1.1	3.7	6.5	6.6	3.4	0.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.6	3.1	3.2	1.4	5.1	5.0	2.1	8.5	8.5	2.4	4.2	3.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	35.8	20.4	20.4	44.5	31.5	31.7	41.6	34.6	34.7	40.9	24.7	24.9
LnGrp LOS	D	C	C	D	C	C	D	C	C	D	C	C
Approach Vol, veh/h		728			609			943			620	
Approach Delay, s/veh		26.4			33.0			35.4			27.8	
Approach LOS		C			C			D			C	

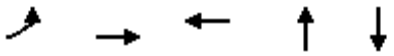
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.0	33.9	11.8	28.5	20.2	22.7	11.0	29.3
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	25.0	35.0	25.0	30.0	39.0	35.0	30.0	30.0
Max Q Clear Time (g_c+I1), s	5.0	9.9	7.2	20.7	14.8	14.3	6.5	12.6
Green Ext Time (p_c), s	0.1	1.7	0.1	2.6	0.4	2.2	0.1	2.0

Intersection Summary	
HCM 6th Ctrl Delay	31.0
HCM 6th LOS	C

Notes

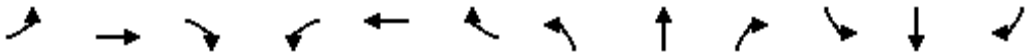
User approved pedestrian interval to be less than phase max green.

Appendix H – Cumulative plus Project Conditions Intersections Level of Service Worksheets



Lane Group	EBL	EBT	WBT	NBT	SBT
Lane Group Flow (vph)	9	1992	685	53	26
v/c Ratio	0.06	0.67	0.24	0.18	0.09
Control Delay	23.3	4.8	3.4	1.3	0.6
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	23.3	4.8	3.4	1.3	0.6
Queue Length 50th (ft)	3	143	26	0	0
Queue Length 95th (ft)	14	213	87	0	0
Internal Link Dist (ft)		1105	809	608	371
Turn Bay Length (ft)	100				
Base Capacity (vph)	334	2963	3006	775	787
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.03	0.67	0.23	0.07	0.03

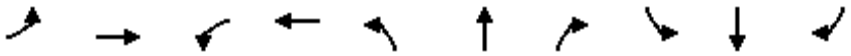
Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	1929	63	0	678	7	40	0	13	23	0	3
Future Volume (vph)	9	1929	63	0	678	7	40	0	13	23	0	3
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0			5.0			5.0	
Lane Util. Factor	1.00	0.95			0.95			1.00			1.00	
Frpb, ped/bikes	1.00	1.00			1.00			1.00			1.00	
Flpb, ped/bikes	1.00	1.00			1.00			1.00			1.00	
Frt	1.00	1.00			1.00			0.97			0.98	
Flt Protected	0.95	1.00			1.00			0.96			0.96	
Satd. Flow (prot)	1770	3519			3533			1736			1756	
Flt Permitted	0.95	1.00			1.00			1.00			1.00	
Satd. Flow (perm)	1770	3519			3533			1801			1834	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	9	1929	63	0	678	7	40	0	13	23	0	3
RTOR Reduction (vph)	0	1	0	0	1	0	0	51	0	0	25	0
Lane Group Flow (vph)	9	1991	0	0	684	0	0	2	0	0	1	0
Confl. Peds. (#/hr)			8			4						
Confl. Bikes (#/hr)			2			2						
Turn Type	Prot	NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases	5	2		1	6			4			4	
Permitted Phases							4			4		
Actuated Green, G (s)	1.1	46.8			40.7			2.6			2.6	
Effective Green, g (s)	1.1	46.8			40.7			2.6			2.6	
Actuated g/C Ratio	0.02	0.79			0.69			0.04			0.04	
Clearance Time (s)	5.0	5.0			5.0			5.0			5.0	
Vehicle Extension (s)	2.0	1.5			1.5			2.0			2.0	
Lane Grp Cap (vph)	32	2772			2420			78			80	
v/s Ratio Prot	0.01	c0.57			0.19							
v/s Ratio Perm								c0.00			0.00	
v/c Ratio	0.28	0.72			0.28			0.03			0.01	
Uniform Delay, d1	28.8	3.1			3.7			27.2			27.2	
Progression Factor	1.00	1.00			1.00			1.00			1.00	
Incremental Delay, d2	1.8	1.6			0.3			0.1			0.0	
Delay (s)	30.5	4.7			3.9			27.2			27.2	
Level of Service	C	A			A			C			C	
Approach Delay (s)		4.8			3.9			27.2			27.2	
Approach LOS		A			A			C			C	

Intersection Summary			
HCM 2000 Control Delay	5.3	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.76		
Actuated Cycle Length (s)	59.4	Sum of lost time (s)	15.0
Intersection Capacity Utilization	67.0%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	641	1615	167	689	43	464	237	180	998	239
v/c Ratio	1.19	1.16	0.76	0.86	0.45	0.55	0.49	0.63	0.97	0.43
Control Delay	142.5	117.6	78.2	60.7	78.2	47.2	20.2	70.3	68.7	18.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	142.5	117.6	78.2	60.7	78.2	47.2	20.2	70.3	68.7	18.4
Queue Length 50th (ft)	~704	~906	146	305	38	186	61	81	460	62
Queue Length 95th (ft)	#998	#1155	227	391	80	257	152	124	#647	150
Internal Link Dist (ft)		863		1273		857			699	
Turn Bay Length (ft)	200		235		125		130	195		
Base Capacity (vph)	540	1390	608	1081	337	1080	579	1179	1647	794
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.19	1.16	0.27	0.64	0.13	0.43	0.41	0.15	0.61	0.30

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	641	1399	216	167	556	133	43	464	237	180	998	239
Future Volume (veh/h)	641	1399	216	167	556	133	43	464	237	180	998	239
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		1.00	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	641	1399	216	167	556	133	43	464	237	180	998	239
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	555	1273	194	193	627	149	55	897	398	236	1065	464
Arrive On Green	0.31	0.41	0.41	0.11	0.22	0.22	0.03	0.25	0.25	0.07	0.30	0.30
Sat Flow, veh/h	1781	3078	469	1781	2844	678	1781	3554	1578	3456	3554	1549
Grp Volume(v), veh/h	641	800	815	167	347	342	43	464	237	180	998	239
Grp Sat Flow(s),veh/h/ln	1781	1777	1770	1781	1777	1745	1781	1777	1578	1728	1777	1549
Q Serve(g_s), s	40.0	53.1	53.1	11.8	24.2	24.4	3.1	14.4	17.0	6.6	35.1	16.4
Cycle Q Clear(g_c), s	40.0	53.1	53.1	11.8	24.2	24.4	3.1	14.4	17.0	6.6	35.1	16.4
Prop In Lane	1.00		0.26	1.00		0.39	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	555	735	732	193	392	385	55	897	398	236	1065	464
V/C Ratio(X)	1.15	1.09	1.11	0.86	0.89	0.89	0.78	0.52	0.60	0.76	0.94	0.51
Avail Cap(c_a), veh/h	555	735	732	625	485	476	347	1108	492	1212	1108	483
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.2	37.6	37.6	56.3	48.4	48.5	61.7	41.3	42.2	58.8	43.8	37.2
Incr Delay (d2), s/veh	88.5	59.8	69.3	4.4	13.4	14.2	8.3	0.2	0.5	1.9	13.9	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	30.9	34.5	36.3	5.5	12.1	12.0	1.5	6.3	6.6	2.9	17.2	6.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	132.7	97.4	106.9	60.7	61.8	62.7	70.0	41.4	42.7	60.7	57.7	37.5
LnGrp LOS	F	F	F	E	E	E	E	D	D	E	E	D
Approach Vol, veh/h		2256			856			744			1417	
Approach Delay, s/veh		110.9			62.0			43.5			54.6	
Approach LOS		F			E			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.6	37.7	18.7	58.4	7.5	43.7	43.5	33.6
Change Period (Y+Rc), s	4.8	* 5.3	4.8	* 5.3	3.5	5.3	3.5	5.3
Max Green Setting (Gmax), s	45.0	* 40	45.0	* 35	25.0	40.0	40.0	35.0
Max Q Clear Time (g_c+I1), s	8.6	19.0	13.8	55.1	5.1	37.1	42.0	26.4
Green Ext Time (p_c), s	0.2	1.7	0.1	0.0	0.0	1.3	0.0	1.5

Intersection Summary	
HCM 6th Ctrl Delay	78.3
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.

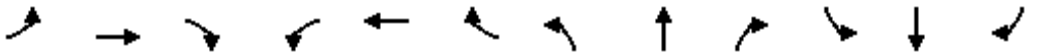
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Lane Group	EBL	EBT	WBT	WBR	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	25	22	87	803	42	971	1345	1409
v/c Ratio	0.26	0.21	0.45	0.45	0.40	0.79	0.90	0.45
Control Delay	64.5	40.0	58.4	3.7	68.4	46.6	42.2	12.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	64.5	40.0	58.4	3.7	68.4	46.6	42.2	12.7
Queue Length 50th (ft)	19	7	63	32	32	253	495	196
Queue Length 95th (ft)	53	37	126	72	77	333	#820	297
Internal Link Dist (ft)		422	383			699		992
Turn Bay Length (ft)					170		260	
Base Capacity (vph)	385	375	388	1948	308	1969	1495	3234
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.06	0.06	0.22	0.41	0.14	0.49	0.90	0.44

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	25	9	13	78	9	803	42	878	93	1345	1120	289
Future Volume (vph)	25	9	13	78	9	803	42	878	93	1345	1120	289
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Lane Util. Factor	1.00	1.00			1.00	0.88	1.00	0.91		0.97	0.91	
Frpb, ped/bikes	1.00	0.99			1.00	1.00	1.00	1.00		1.00	0.99	
Flpb, ped/bikes	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	0.91			1.00	0.85	1.00	0.99		1.00	0.97	
Flt Protected	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1680			1783	2779	1770	5004		3433	4898	
Flt Permitted	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1680			1783	2779	1770	5004		3433	4898	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	25	9	13	78	9	803	42	878	93	1345	1120	289
RTOR Reduction (vph)	0	12	0	0	0	265	0	8	0	0	19	0
Lane Group Flow (vph)	25	10	0	0	87	538	42	963	0	1345	1390	0
Confl. Peds. (#/hr)			5			2			4			5
Confl. Bikes (#/hr)												1
Turn Type	Split	NA		Split	NA	pm+ov	Prot	NA		Prot	NA	
Protected Phases	4	4		3	3	1	5	2		1	6	
Permitted Phases						3						
Actuated Green, G (s)	5.2	5.2			12.8	63.7	5.9	29.8		50.9	74.8	
Effective Green, g (s)	5.2	5.2			12.8	63.7	5.9	29.8		50.9	74.8	
Actuated g/C Ratio	0.04	0.04			0.11	0.54	0.05	0.25		0.43	0.63	
Clearance Time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Vehicle Extension (s)	2.0	2.0			2.0	2.0	1.5	2.0		2.0	2.0	
Lane Grp Cap (vph)	77	73			191	1487	87	1253		1468	3078	
v/s Ratio Prot	c0.01	0.01			c0.05	0.15	0.02	c0.19		c0.39	0.28	
v/s Ratio Perm						0.04						
v/c Ratio	0.32	0.13			0.46	0.36	0.48	0.77		0.92	0.45	
Uniform Delay, d1	55.2	54.7			49.8	15.9	55.1	41.4		32.0	11.5	
Progression Factor	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.9	0.3			0.6	0.1	1.5	2.6		9.1	0.0	
Delay (s)	56.1	55.0			50.5	16.0	56.6	44.0		41.1	11.5	
Level of Service	E	E			D	B	E	D		D	B	
Approach Delay (s)		55.6			19.4			44.5			26.0	
Approach LOS		E			B			D			C	

Intersection Summary			
HCM 2000 Control Delay	29.0	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.78		
Actuated Cycle Length (s)	119.0	Sum of lost time (s)	20.3
Intersection Capacity Utilization	83.1%	ICU Level of Service	E
Analysis Period (min)	15		

c Critical Lane Group

Intersection	
Int Delay, s/veh	7.1

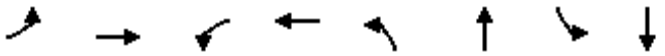
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1878	146	16	743	71	40
Future Vol, veh/h	1878	146	16	743	71	40
Conflicting Peds, #/hr	0	5	5	0	1	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1878	146	16	743	71	40

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	2029	0	2361	1017
Stage 1	-	-	-	-	1956	-
Stage 2	-	-	-	-	405	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	276	-	~ 30	235
Stage 1	-	-	-	-	96	-
Stage 2	-	-	-	-	642	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	275	-	~ 27	234
Mov Cap-2 Maneuver	-	-	-	-	81	-
Stage 1	-	-	-	-	96	-
Stage 2	-	-	-	-	578	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.3	176.5
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	106	-	-	275	-
HCM Lane V/C Ratio	1.047	-	-	0.058	-
HCM Control Delay (s)	176.5	-	-	18.9	0.9
HCM Lane LOS	F	-	-	C	A
HCM 95th %tile Q(veh)	6.8	-	-	0.2	-

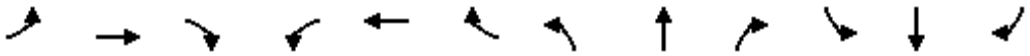
Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	372	984	101	458	63	722	161	388
v/c Ratio	0.81	0.83	0.57	0.71	0.46	0.85	0.67	0.35
Control Delay	56.2	41.8	65.8	50.6	66.6	50.0	63.8	29.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	56.2	41.8	65.8	50.6	66.6	50.0	63.8	29.1
Queue Length 50th (ft)	261	352	73	166	46	243	116	101
Queue Length 95th (ft)	437	508	150	258	104	#443	214	178
Internal Link Dist (ft)		1060		2431		769		1211
Turn Bay Length (ft)	125		120		180		130	
Base Capacity (vph)	629	1556	403	1104	484	1105	403	1113
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.59	0.63	0.25	0.41	0.13	0.65	0.40	0.35

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



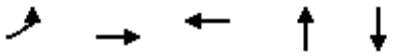
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	372	862	122	101	369	89	63	461	261	161	257	131
Future Volume (veh/h)	372	862	122	101	369	89	63	461	261	161	257	131
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		0.98	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	372	862	122	101	369	89	63	461	261	161	257	131
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	412	1052	149	130	507	121	82	552	310	197	730	360
Arrive On Green	0.23	0.34	0.34	0.07	0.18	0.18	0.05	0.25	0.25	0.11	0.32	0.32
Sat Flow, veh/h	1781	3118	441	1781	2834	675	1781	2178	1224	1781	2295	1131
Grp Volume(v), veh/h	372	491	493	101	230	228	63	376	346	161	197	191
Grp Sat Flow(s),veh/h/ln	1781	1777	1783	1781	1777	1732	1781	1777	1625	1781	1777	1648
Q Serve(g_s), s	18.0	22.4	22.4	4.9	10.8	11.1	3.1	17.7	17.9	7.8	7.5	7.9
Cycle Q Clear(g_c), s	18.0	22.4	22.4	4.9	10.8	11.1	3.1	17.7	17.9	7.8	7.5	7.9
Prop In Lane	1.00		0.25	1.00		0.39	1.00		0.75	1.00		0.69
Lane Grp Cap(c), veh/h	412	600	602	130	318	310	82	450	412	197	565	525
V/C Ratio(X)	0.90	0.82	0.82	0.78	0.72	0.74	0.77	0.83	0.84	0.82	0.35	0.36
Avail Cap(c_a), veh/h	784	701	704	502	701	684	603	601	550	502	601	558
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	33.1	26.9	26.9	40.4	34.3	34.4	41.8	31.3	31.4	38.5	23.2	23.3
Incr Delay (d2), s/veh	3.1	5.7	5.7	3.8	1.2	1.3	5.6	5.8	6.8	3.1	0.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.8	9.9	9.9	2.2	4.6	4.6	1.5	8.0	7.5	3.5	3.1	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	36.2	32.6	32.6	44.2	35.5	35.7	47.4	37.1	38.2	41.7	23.3	23.5
LnGrp LOS	D	C	C	D	D	D	D	D	D	D	C	C
Approach Vol, veh/h		1356			559			785			549	
Approach Delay, s/veh		33.6			37.1			38.4			28.7	
Approach LOS		C			D			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.5	34.9	14.8	27.5	25.5	20.9	9.1	33.2
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	25.0	35.0	25.0	30.0	39.0	35.0	30.0	30.0
Max Q Clear Time (g_c+I1), s	6.9	24.4	9.8	19.9	20.0	13.1	5.1	9.9
Green Ext Time (p_c), s	0.1	3.2	0.2	2.2	0.5	1.6	0.1	1.4

Intersection Summary	
HCM 6th Ctrl Delay	34.5
HCM 6th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.



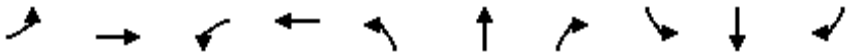
Lane Group	EBL	EBT	WBT	NBT	SBT
Lane Group Flow (vph)	3	1090	1193	40	19
v/c Ratio	0.02	0.37	0.42	0.14	0.07
Control Delay	23.7	2.3	4.2	0.9	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	23.7	2.3	4.2	0.9	0.4
Queue Length 50th (ft)	1	48	55	0	0
Queue Length 95th (ft)	7	70	173	0	0
Internal Link Dist (ft)		1105	809	608	371
Turn Bay Length (ft)	100				
Base Capacity (vph)	327	2986	2989	781	743
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.01	0.37	0.40	0.05	0.03

Intersection Summary

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	3	1063	27	0	1170	23	38	0	2	10	0	9
Future Volume (vph)	3	1063	27	0	1170	23	38	0	2	10	0	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0			5.0			5.0	
Lane Util. Factor	1.00	0.95			0.95			1.00			1.00	
Frpb, ped/bikes	1.00	1.00			1.00			1.00			1.00	
Flpb, ped/bikes	1.00	1.00			1.00			1.00			1.00	
Frt	1.00	1.00			1.00			0.99			0.94	
Flt Protected	0.95	1.00			1.00			0.95			0.97	
Satd. Flow (prot)	1770	3524			3527			1765			1699	
Flt Permitted	0.95	1.00			1.00			1.00			1.00	
Satd. Flow (perm)	1770	3524			3527			1848			1744	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	3	1063	27	0	1170	23	38	0	2	10	0	9
RTOR Reduction (vph)	0	1	0	0	1	0	0	38	0	0	18	0
Lane Group Flow (vph)	3	1089	0	0	1192	0	0	2	0	0	1	0
Confl. Peds. (#/hr)			3			2			1			
Confl. Bikes (#/hr)			2			1						
Turn Type	Prot	NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases	5	2		1	6			4			4	
Permitted Phases							4			4		
Actuated Green, G (s)	1.0	47.8			41.8			2.6			2.6	
Effective Green, g (s)	1.0	47.8			41.8			2.6			2.6	
Actuated g/C Ratio	0.02	0.79			0.69			0.04			0.04	
Clearance Time (s)	5.0	5.0			5.0			5.0			5.0	
Vehicle Extension (s)	2.0	1.5			1.5			2.0			2.0	
Lane Grp Cap (vph)	29	2788			2440			79			75	
v/s Ratio Prot	0.00	c0.31			c0.34							
v/s Ratio Perm								c0.00			0.00	
v/c Ratio	0.10	0.39			0.49			0.02			0.01	
Uniform Delay, d1	29.3	1.9			4.3			27.7			27.7	
Progression Factor	1.00	1.00			1.00			1.00			1.00	
Incremental Delay, d2	0.6	0.4			0.7			0.0			0.0	
Delay (s)	29.8	2.3			5.0			27.7			27.7	
Level of Service	C	A			A			C			C	
Approach Delay (s)		2.4			5.0			27.7			27.7	
Approach LOS		A			A			C			C	

Intersection Summary			
HCM 2000 Control Delay	4.4	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.48		
Actuated Cycle Length (s)	60.4	Sum of lost time (s)	15.0
Intersection Capacity Utilization	45.1%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	396	804	157	997	155	930	158	259	560	437
v/c Ratio	0.83	0.60	0.77	1.22	0.78	0.98	0.32	0.74	0.60	0.60
Control Delay	67.7	40.2	88.1	156.3	89.1	78.0	16.2	78.1	51.6	7.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	67.7	40.2	88.1	156.3	89.1	78.0	16.2	78.1	51.6	7.6
Queue Length 50th (ft)	364	325	150	~620	149	473	34	127	251	0
Queue Length 95th (ft)	#559	446	228	#794	226	#649	100	176	335	98
Internal Link Dist (ft)		863		1273		857			699	
Turn Bay Length (ft)	200		235		125		130	195		
Base Capacity (vph)	475	1340	535	956	297	951	497	1038	1450	894
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.83	0.60	0.29	1.04	0.52	0.98	0.32	0.25	0.39	0.49

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	396	750	54	157	837	160	155	930	158	259	560	437
Future Volume (veh/h)	396	750	54	157	837	160	155	930	158	259	560	437
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.98	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	396	750	54	157	837	160	155	930	158	259	560	437
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	418	1260	91	181	744	142	179	1024	452	312	1020	453
Arrive On Green	0.23	0.37	0.37	0.10	0.25	0.25	0.10	0.29	0.29	0.09	0.29	0.29
Sat Flow, veh/h	1781	3360	242	1781	2963	566	1781	3554	1570	3456	3554	1577
Grp Volume(v), veh/h	396	397	407	157	502	495	155	930	158	259	560	437
Grp Sat Flow(s),veh/h/ln	1781	1777	1825	1781	1777	1752	1781	1777	1570	1728	1777	1577
Q Serve(g_s), s	30.5	25.0	25.0	12.1	35.0	35.0	11.9	35.2	11.1	10.3	18.6	38.1
Cycle Q Clear(g_c), s	30.5	25.0	25.0	12.1	35.0	35.0	11.9	35.2	11.1	10.3	18.6	38.1
Prop In Lane	1.00		0.13	1.00		0.32	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	418	666	684	181	446	440	179	1024	452	312	1020	453
V/C Ratio(X)	0.95	0.60	0.60	0.87	1.12	1.12	0.87	0.91	0.35	0.83	0.55	0.97
Avail Cap(c_a), veh/h	511	666	684	575	446	440	320	1024	452	1116	1020	453
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.4	35.0	35.0	61.6	52.2	52.2	61.7	47.8	39.3	62.3	42.0	49.0
Incr Delay (d2), s/veh	22.8	1.0	1.0	4.7	81.2	81.5	4.8	11.4	0.2	2.2	0.4	33.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	16.1	10.9	11.2	5.7	25.5	25.2	5.6	17.0	4.3	4.6	8.2	19.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	75.3	36.0	36.0	66.4	133.3	133.6	66.6	59.2	39.4	64.5	42.4	82.1
LnGrp LOS	E	D	D	E	F	F	E	E	D	E	D	F
Approach Vol, veh/h		1200			1154			1243			1256	
Approach Delay, s/veh		49.0			124.3			57.6			60.8	
Approach LOS		D			F			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.4	45.4	19.0	57.5	17.5	45.3	36.2	40.3
Change Period (Y+Rc), s	4.8	* 5.3	4.8	* 5.3	3.5	5.3	3.5	5.3
Max Green Setting (Gmax), s	45.0	* 40	45.0	* 35	25.0	40.0	40.0	35.0
Max Q Clear Time (g_c+I1), s	12.3	37.2	14.1	27.0	13.9	40.1	32.5	37.0
Green Ext Time (p_c), s	0.3	1.2	0.1	1.7	0.1	0.0	0.3	0.0

Intersection Summary	
HCM 6th Ctrl Delay	72.2
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

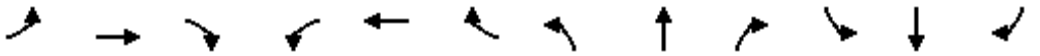


Lane Group	EBL	EBT	WBT	WBR	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	48	37	195	1777	79	1380	1779	1025
v/c Ratio	0.48	0.31	0.63	1.14	0.63	0.92	1.50	0.35
Control Delay	83.1	34.2	67.5	96.1	87.8	59.6	263.6	17.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	83.1	34.2	67.5	96.1	87.8	59.6	263.6	17.9
Queue Length 50th (ft)	46	8	179	~1106	76	467	~1245	189
Queue Length 95th (ft)	92	46	275	#1305	133	#576	#1426	253
Internal Link Dist (ft)		422	383			699		992
Turn Bay Length (ft)					170		260	
Base Capacity (vph)	183	196	309	1561	244	1559	1186	2905
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.26	0.19	0.63	1.14	0.32	0.89	1.50	0.35

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	48	8	29	157	38	1777	79	1203	177	1779	1005	20
Future Volume (vph)	48	8	29	157	38	1777	79	1203	177	1779	1005	20
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Lane Util. Factor	1.00	1.00			1.00	0.88	1.00	0.91		0.97	0.91	
Frpb, ped/bikes	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	0.88			1.00	0.85	1.00	0.98		1.00	1.00	
Flt Protected	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1644			1791	2773	1770	4973		3433	5068	
Flt Permitted	0.95	1.00			0.96	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1644			1791	2773	1770	4973		3433	5068	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	48	8	29	157	38	1777	79	1203	177	1779	1005	20
RTOR Reduction (vph)	0	28	0	0	0	125	0	13	0	0	1	0
Lane Group Flow (vph)	48	9	0	0	195	1652	79	1367	0	1779	1024	0
Confl. Peds. (#/hr)						2			6			1
Confl. Bikes (#/hr)									1			
Turn Type	Split	NA		Split	NA	pm+ov	Prot	NA		Prot	NA	
Protected Phases	4	4		3	3	1	5	2		1	6	
Permitted Phases						3						
Actuated Green, G (s)	7.3	7.3			25.1	75.3	10.4	43.5		50.2	83.3	
Effective Green, g (s)	7.3	7.3			25.1	75.3	10.4	43.5		50.2	83.3	
Actuated g/C Ratio	0.05	0.05			0.17	0.51	0.07	0.30		0.34	0.57	
Clearance Time (s)	5.0	5.0			5.0	5.0	5.0	5.3		5.0	5.3	
Vehicle Extension (s)	2.0	2.0			2.0	2.0	1.5	2.0		2.0	2.0	
Lane Grp Cap (vph)	88	81			307	1426	125	1477		1177	2883	
v/s Ratio Prot	c0.03	0.01			0.11	c0.40	0.04	c0.27		c0.52	0.20	
v/s Ratio Perm						0.20						
v/c Ratio	0.55	0.12			0.64	1.16	0.63	0.93		1.51	0.36	
Uniform Delay, d1	67.9	66.5			56.4	35.6	66.1	49.9		48.1	17.0	
Progression Factor	1.00	1.00			1.00	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	3.7	0.2			3.1	79.6	7.4	10.0		234.6	0.0	
Delay (s)	71.6	66.7			59.5	115.2	73.6	59.9		282.7	17.1	
Level of Service	E	E			E	F	E	E		F	B	
Approach Delay (s)		69.5			109.7			60.6			185.6	
Approach LOS		E			F			E			F	

Intersection Summary			
HCM 2000 Control Delay	131.5	HCM 2000 Level of Service	F
HCM 2000 Volume to Capacity ratio	1.18		
Actuated Cycle Length (s)	146.4	Sum of lost time (s)	20.3
Intersection Capacity Utilization	108.8%	ICU Level of Service	G
Analysis Period (min)	15		

c Critical Lane Group

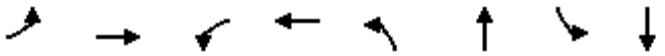
Intersection	
Int Delay, s/veh	1

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations							
Traffic Vol, veh/h	1	1103	60	20	1164	40	19
Future Vol, veh/h	1	1103	60	20	1164	40	19
Conflicting Peds, #/hr	0	0	2	2	0	0	0
Sign Control	Free	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0	-
Veh in Median Storage, #	-	0	-	-	0	1	-
Grade, %	-	0	-	-	0	0	-
Peak Hour Factor	100	100	100	100	100	100	100
Heavy Vehicles, %	2	2	2	2	2	2	2
Mvmt Flow	1	1103	60	20	1164	40	19

Major/Minor	Major1			Major2		Minor1	
Conflicting Flow All	1164	0	0	1165	0	1759	584
Stage 1	-	-	-	-	-	1137	-
Stage 2	-	-	-	-	-	622	-
Critical Hdwy	6.44	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	-	5.84	-
Follow-up Hdwy	2.52	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	260	-	-	595	-	76	455
Stage 1	-	-	-	-	-	268	-
Stage 2	-	-	-	-	-	498	-
Platoon blocked, %		-	-		-		
Mov Cap-1 Maneuver	260	-	-	594	-	68	454
Mov Cap-2 Maneuver	-	-	-	-	-	181	-
Stage 1	-	-	-	-	-	265	-
Stage 2	-	-	-	-	-	451	-

Approach	EB	WB	NB
HCM Control Delay, s	0.1	0.7	26.7
HCM LOS			D

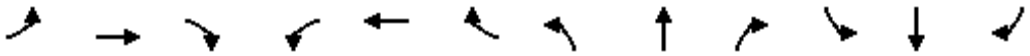
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	224	-	-	594	-
HCM Lane V/C Ratio	0.263	-	-	0.034	-
HCM Control Delay (s)	26.7	0.1	-	11.3	0.5
HCM Lane LOS	D	A	-	B	A
HCM 95th %tile Q(veh)	1	-	-	0.1	-



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	282	446	67	543	99	846	113	507
v/c Ratio	0.77	0.36	0.46	0.76	0.55	0.85	0.58	0.49
Control Delay	55.6	26.9	61.3	46.2	60.7	47.0	60.5	30.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	55.6	26.9	61.3	46.2	60.7	47.0	60.5	30.0
Queue Length 50th (ft)	179	117	43	171	64	277	73	120
Queue Length 95th (ft)	321	183	106	277	142	#566	156	234
Internal Link Dist (ft)		1060		2431		769		1211
Turn Bay Length (ft)	125		120		180		130	
Base Capacity (vph)	661	1648	423	1152	508	1164	423	1038
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.43	0.27	0.16	0.47	0.19	0.73	0.27	0.49

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	282	389	57	67	389	154	99	724	122	113	306	201
Future Volume (veh/h)	282	389	57	67	389	154	99	724	122	113	306	201
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.99	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	282	389	57	67	389	154	99	724	122	113	306	201
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	325	1076	156	87	531	207	128	859	145	145	604	386
Arrive On Green	0.18	0.35	0.35	0.05	0.21	0.21	0.07	0.28	0.28	0.08	0.29	0.29
Sat Flow, veh/h	1781	3104	451	1781	2490	972	1781	3034	511	1781	2065	1319
Grp Volume(v), veh/h	282	221	225	67	276	267	99	424	422	113	262	245
Grp Sat Flow(s),veh/h/ln	1781	1777	1778	1781	1777	1686	1781	1777	1768	1781	1777	1607
Q Serve(g_s), s	12.8	7.7	7.9	3.1	12.1	12.3	4.6	18.7	18.7	5.2	10.2	10.6
Cycle Q Clear(g_c), s	12.8	7.7	7.9	3.1	12.1	12.3	4.6	18.7	18.7	5.2	10.2	10.6
Prop In Lane	1.00		0.25	1.00		0.58	1.00		0.29	1.00		0.82
Lane Grp Cap(c), veh/h	325	616	617	87	379	359	128	503	501	145	520	470
V/C Ratio(X)	0.87	0.36	0.36	0.77	0.73	0.74	0.77	0.84	0.84	0.78	0.50	0.52
Avail Cap(c_a), veh/h	834	746	747	534	746	708	641	640	637	534	640	579
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	33.1	20.3	20.3	39.2	30.5	30.6	38.0	28.1	28.1	37.5	24.5	24.6
Incr Delay (d2), s/veh	2.8	0.1	0.1	5.3	1.0	1.1	3.7	6.6	6.7	3.4	0.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.6	3.1	3.2	1.5	5.1	5.0	2.1	8.6	8.5	2.4	4.2	3.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	35.9	20.4	20.5	44.5	31.5	31.8	41.7	34.8	34.8	41.0	24.7	24.9
LnGrp LOS	D	C	C	D	C	C	D	C	C	D	C	C
Approach Vol, veh/h		728			610			945			620	
Approach Delay, s/veh		26.4			33.1			35.5			27.8	
Approach LOS		C			C			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.1	33.9	11.8	28.6	20.2	22.8	11.0	29.4
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	25.0	35.0	25.0	30.0	39.0	35.0	30.0	30.0
Max Q Clear Time (g_c+I1), s	5.1	9.9	7.2	20.7	14.8	14.3	6.6	12.6
Green Ext Time (p_c), s	0.1	1.7	0.1	2.6	0.4	2.2	0.1	2.0

Intersection Summary	
HCM 6th Ctrl Delay	31.1
HCM 6th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.

Appendix I – ACTC Model Outputs

ACTC Model Outputs

TAZ	Total Population	VMT Production	VMT per Capita
#934 - No Project	844	19,615	23.24
#934 - With Project	1,087	20,035	18.43

TECHNICAL MEMORANDUM

Date:	May 23, 2023	
To:	Brain Steele	Waymark Development
	Caden Proctor	Waymark Development
CC:	Carmelisa Lopez	City of Newark
	Jayson Imai	City of Newark
From:	Steven Matthew Dauterman, PE, PTOE, RSP[1]	TJKM
	Chris D. Kinzel, PE, TE	TJKM
Subject:	***Cedar/Smith Signal Warrant and Fair Share Assessment***	

This memorandum summarizes the findings of an in-depth signal warrant assessment and fair share assessment for the intersection of Cedar Boulevard and Smith Avenue in the City of Newark and in conjunction with two proposed developments along Cedar Boulevard (38478 Cedar Boulevard by Robson Homes [herein referred to as the Robson Development] and 38600 Cedar Boulevard by Waymark [herein referred to as the Waymark Development]).

This memorandum is intended to provide supplemental analyses with respect to the third iteration of a Traffic Impact Study (TIS) that was conducted by TJKM Transportation Consultants for the Waymark Development (titled *Cedar Boulevard Townhomes* and last revised on April 21, 2023) and based on a meeting between the Waymark team, TJKM, and City staff on May 11, 2023. At the meeting, the City had requested a more thorough investigation that utilized an identical methodology with a previous signal warrant assessment that was conducted for the intersection by Hexagon Transportation Consultations in association with the Robson Development. TJKM requested the latest copy of the Robson Development TIS/ signal warrant assessment; both were provided to TJKM by City staff on May 12, 2023.

This memorandum supports the following conclusions:

- Consistent with the Hexagon signal warrant assessment, Warrant 1 ("Eight-Hour Vehicular Volume Warrant") as discussed in Chapter 4C ("*Traffic Control Signals – General*") of the *California Manual of Traffic Control Devices* (CA-MUTCD) is likely not satisfied under existing conditions.
- Under 2040 Cumulative Conditions, there is some likelihood that Warrant 1 may be satisfied.
- Under 2022 Existing Conditions, consistent with the Hexagon signal warrant assessment, CA-MUTCD Signal Warrant 2 ("Four-Hour Vehicular Volume Warrant") would not be satisfied. This finding does not change when accounting for additional traffic generated by either the Robson or Waymark developments or both.

- Under 2040 Cumulative Conditions, CA-MUTCD Warrant 2 is anticipated to be satisfied. These conditions would occur regardless of any additional traffic generated by the Robson or Waymark developments or both.
- Under 2022 Existing Conditions, CA-MUTCD Signal Warrant 3 ("Peak-Hour Vehicular Volume Warrant") would exceed the volume thresholds during the weekday morning commuter (a.m.) peak hour. These conditions would occur regardless of any additional traffic generated by the Robson or Waymark developments or both. This trend continues under 2040 Cumulative Conditions.
    - The CA-MUTCD stipulates that "*[t]his signal warrant shall be applied only in unusual cases, such as office complexes, manufacturing plants, industrial complexes, or high-occupancy vehicle facilities that attract or discharge large numbers of vehicles over a short time*." Given the location of the intersection and surrounding community, the intent of Warrant 3 (i.e., for "unusual cases") does not appear to be satisfied. The applicability of Warrant 3 in this case is questioned.
- Under 2022 Existing Conditions, CA-MUTCD Signal Warrants 4 ("Pedestrian Volume Warrant") and 5 ("School Crossing Volume Warrant") are not satisfied. These conditions are unlikely to be changed with the construction of the Robson or Waymark developments or both. Further, this trend is expected to continue under 2040 Cumulative Conditions.
- Under 2022 Existing Conditions, CA-MUTCD Signal Warrant 7 ("Crash Experience Warrant") is not satisfied. This warrant was not assessed under 2040 conditions, given that it is supposed to be based on historical crashes.
- Traffic generated by the Robson and Waymark developments account for an insignificant increase in utilization at the subject intersection.
    - The Robson development is expected to increase utilization by 23 a.m. and 28 p.m. peak hour trips, respectively. This development is expected to account for 1.91 percent of expected regional growth by 2040.
    - The Waymark development is expected to increase utilization by 2 a.m. and 3 p.m. peak hour trips. This development is expected to account for 0.19 percent of expected regional growth by 2040.
    - Added project trips from both developments were only assigned to Cedar Boulevard; as such, they are not expected to increase side-street traffic volumes (which plays a critical role in the determination of CA-MUTCD Warrants 1, 2, and 3).

ANALYSIS METHODOLOGY AND PARAMETERS

Signal Warrant Assessment

Signal warrant analyses are based off of the Federal Highway Administration's (FHWA) 2009 edition of the Manual on Uniform Traffic Control Devices (MUTCD). Guidelines for nine separate signal warrants are discussed specifically in Chapter 4C, *Traffic Control Signal Needs Studies*, by which only one warrant needs to be satisfied to support the installation of a traffic control signal and additional warrants met would further support the appropriateness of installation. That said, satisfaction of one or more warrants shall not itself require installation of a traffic signal; a traffic signal should be both warranted and justified.

The State of California has adopted and has modified the federal guidelines to meet the needs of the State. This assessment uses the *California Manual of Traffic Control Devices* (CA-MUTCD).

As discussed in a meeting with City staff on May 11, 2023, TJKM was requested to provide a more in-depth investigation that utilized an identical methodology with a previous signal warrant assessment that was conducted for the intersection by Hexagon Transportation Consultations in association with the Robson Development. TJKM requested the latest copy of the Robson Development TIS/ signal warrant assessment; both were provided to TJKM by City staff on May 12, 2023.

The Hexagon analysis (titled *Signal Warrant Analysis for the Intersection at Cedar Boulevard & Smith Avenue in Newark, CA* and dated September 24, 2021) is provided in **Appendix A**. The traffic counts utilized as the base of this analysis are provided in **Appendix B**. Excerpts utilized from the Robson TIS are provided in **Appendix C**. Excerpts utilized from the Waymark TIS are provided in **Appendix D**.

Consistent with the Hexagon signal warrant assessment, this memo analyzes six of the nine warrants:

- Warrant 1 – Eight-Hour Vehicular Volume;
- Warrant 2 – Four-Hour Vehicular Volume;
- Warrant 3 – Peak-Hour Vehicular Volume;
- Warrant 4 – Pedestrian Volume;
- Warrant 5 – School Crossing Volume;
- Warrant 7 – Crash Experience.

Consistent with the Hexagon signal warrant assessment and/or per requests by City staff, the analysis assumed the following parameters:

- Cedar Boulevard is considered the Major Street;
- Smith Avenue is considered the Minor Street;
- The thresholds for "two or more lanes for moving traffic on the major street" and "one lane for moving traffic on the minor street" were used;

- An 85th percentile speed of above 40 miles per hour (mph) is to be used in lieu of the posted speed limit.
  - This impacts which thresholds are used for Warrants 1, 2, and 3.
- A very conservative right-turn reduction (RTR) of zero percent was applied to the minor street (i.e., none at all).
  - In the third iteration of the Waymark TIS, a conservative 50 percent RTR was applied to the minor street to account for gaps in traffic flow, pursuant CA-MUTCD 4C.01.08-09. Previous estimations for RTR were approximated to average around 67% using *Synchro* (this was done by converting the intersection to a signal and determining the expected right-turn-on-red reduction (RTOR) values from the Highway Capacity Manual (HCM) 2000 methodology). Though not used in this study, justification was asked to be provided for the previous 50% RTR; the *Synchro* HCM 2000 analysis worksheets are provided in **Appendix E**.

Fair Share Assessment

In order to determine the potential fair share contribution needed from the Robson and Waymark developments, the California Department of Transportation's (Caltrans) method for calculating equitable mitigation measures was utilized as per Caltrans' *Guide for the Preparation of Traffic Impact Studies* (December 2002).

The following equations where used:

$$P = \frac{T}{T_b - T_e} \qquad \text{(Eq. 1)}$$

$$C = (P)(C_t) \qquad \text{(Eq. 2)}$$

where,

- P = the equitable share for the proposed project's traffic impact.
- T = the vehicle trips generated by the project during the peak hour.
- T_b = the forecasted traffic volume on an impacted highway at the time of general plan build-out.
- T_e = the traffic volume existing on the impacted highway facility.
- C = the equitable cost of traffic mitigation for the proposed project.
- C_t = the total cost estimate for improvements necessary to mitigate the forecasted traffic demand on the impacted highway facility.

CA-MUTCD SIGNAL WARRANT EVALUATION

Warrant 1: Eight-Hour Vehicular Volume

Warrant 1 is satisfied when for each of any eight hours of an average day, the traffic volumes given in the tables shown below exist on the major-street and on the higher-volume minor-street approaches to the intersection. Therefore, if the vehicles per hour given in both of the 100 percent columns in the CA-MUTCD Table 4C-1 exist on the major-street and the higher-volume minor-street approaches, respectively, to the intersection and satisfy either Condition A or Condition B, for each of any eight hours of an average weekday, then Warrant 1 is satisfied.

> **Condition A – Minimum Vehicular Volume**: The vehicles per hour given in both of the 100 percent columns in the CA-MUTCD Table 4C-1 must exist on the major-street and the higher-volume minor-street approaches, respectively, to the intersection; or
>
> **Condition B – Interruption of Continuous Traffic**: The vehicles per hour given in both of the 100 percent columns in the CA-MUTCD Table 4C-1 must exist on the major-street and the higher-volume minor-street approaches, respectively, to the intersection.

However, if the 100 percent requirements cannot be satisfied, then the 80 percent columns may be used "only after an adequate trial of other alternatives that could cause less delay and inconvenience to traffic has failed to solve the traffic problems." Under the 80 percent column requirements, a combination of Condition A and Condition B must be met. The vehicles per hour given in both of the 80 percent columns must exist on the major-street and the higher-volume minor-street approaches, respectively, and must satisfy both Condition A and Condition B.

> **Condition A – Minimum Vehicular Volume**: The vehicles per hour given in both of the 80 percent columns in the CA-MUTCD Table 4C-1 must exist on the major-street and the higher-volume minor-street approaches, respectively, to the intersection; and
>
> **Condition B – Interruption of Continuous Traffic**: The vehicles per hour given in both of the 80 percent columns in the CA-MUTCD Table 4C-1 must exist on the major-street and the higher-volume minor-street approaches, respectively, to the intersection.

Therefore, if the vehicles per hour (vph) given in both of the 100 percent columns in the CA-MUTCD Table 4C-1 exist on the major-street and the higher-volume minor-street approaches, respectively, to the intersection and satisfy either Condition A or Condition B, for each of any eight hours of an average weekday, then Warrant 1 is satisfied. The 80 percent columns may be used in place of the 100% columns when a combination of Conditions A and B is satisfied.

If the posted speed limit or 85th-percentile speed on the major street exceeds 40 mph, or if the intersection lies within the built-up area of an isolated community having a population of less than 10,000, then the traffic volumes in the 70 percent and 56 percent columns in Table 4C-1 may be used in place of the 100 percent and 80 percent columns, respectively.

As noted previously, the analysis herein assumes the thresholds for two lanes for moving traffic on the major street and one lane for moving traffic on the minor street for the evaluation of the warrant. Additionally, given that the supposed 85th-percentile speed along Cedar Boulevard is above 40 mph, the 70 percent thresholds were utilized for the purposes of this assessment. The specific volumes requirements used in this study for Conditions A and B were taken from the CA-MUTCD Table 4C-1, as illustrated in **Table 1**.

Table 1: Warrant 1 – Eight Hour Vehicular Volume Thresholds (CA-MUTCD Table 4C-1)

Condition A - Minimum Vehicular Volume									
Number of Lanes for moving traffic on each Approach		Vehicles per hour on Major Street (total of both approaches)				Vehicles per hour on higher-volume minor-street approach (one direction only)			
Major Street	Minor Street	100% (a)	80% (b)	70% (c)	56% (d)	100% (a)	80% (b)	70% (c)	56% (d)
1	1	500	400	350	280	150	120	105	84
2 or more	1	600	480	420	336	150	120	105	84
2 or more	2 or more	600	480	420	336	200	160	140	112
1	2 or more	500	400	350	280	200	160	140	112
Condition B - Interruption of Continuous Traffic									
Number of Lanes for moving traffic on each Approach		Vehicles per hour on Major Street (total of both approaches)				Vehicles per hour on higher-volume minor-street approach (one direction only)			
Major Street	Minor Street	100% (a)	80% (b)	70% (c)	56% (d)	100% (a)	80% (b)	70% (c)	56% (d)
1	1	750	600	525	420	75	60	53	42
2 or more	1	900	720	630	504	75	60	53	42
2 or more	2 or more	900	720	630	504	100	80	70	56
1	2 or more	750	600	525	420	100	80	70	56

Notes:
a. Basic minimum hourly volume.
b. Used for a combination of A and B after adequate trial of other remedial measures.
c. May be used when the major-street speed exceeds 40 mph or in isolated community with a population of less than 10,000.
d. May be used for a combination of Conditions A and B after adequate trial of other remedial measures when the major-street speed exceeds 40 mph or in an isolated community with a population of less than 10,000.

The four hours of turning movement counts, collected in 2022, were utilized in the assessment of the warrant. It is noted that the full assessment of the warrant does require at least eight hours of data, however additional data is not anticipated to change the conclusions of the assessment at this time. Of the four hours analyzed as illustrated in **Table 2**, none satisfy Condition A and only two satisfy Condition B; thus, it is not expected that the Warrant 1 would be met under existing conditions given that any additional hours would likely experience less utilization of the intersection due to being outside the peak periods.

In order to analyze 2040 Cumulative Conditions, the 2022 volumes were grown to 2040 by applying inherent growth factors. These factors were calculated based on the ratio between the 2022 and 2040 peak hour traffic volumes at the subject intersection from the Waymark TIS (1.99 for the a.m. hours and 2.27 for the p.m. hours). As illustrated in **Table 2**, only two of the four hours analyzed would satisfy Condition A and all four would satisfy Condition B. Thus, there is a likelihood that Warrant 1 may be satisfied under 2040 cumulative conditions.

Table 2: Warrant 1 Assessment

				Either Condition A or B Must be Satisfied					
Start Time	**Volumes (Major/Minor)**			**70% Threshold Conditions A**			**70% Threshold Conditions B**		
	VPH			**420**	**/**	**105**	**630**	**/**	**53**
7:00:00 AM (2022 Existing)	707	/	51	Y	/	N	Y	/	N
8:00:00 AM (2022 Existing)	1,366	/	82	Y	/	N	Y	/	Y
4:00:00 PM (2022 Existing)	935	/	56	Y	/	N	Y	/	Y
5:00:00 PM (2022 Existing)	1,046	/	46	Y	/	N	Y	/	N
7:00:00 AM (2040 Cumulative)	1,409	/	102	Y	/	N	Y	/	Y
8:00:00 AM (2040 Cumulative)	2,722	/	163	Y	/	Y	Y	/	Y
4:00:00 PM (2040 Cumulative)	2,122	/	127	Y	/	Y	Y	/	Y
5:00:00 PM (2040 Cumulative)	2,374	/	104	Y	/	N	Y	/	Y

Y- Threshold is Satisfied

N- Threshold is Not Satisfied

Warrant 2: Four-Hour Vehicular Volume

Warrant 2 is intended to be applied at intersections where the volume of intersection traffic is the principal reason to consider the installation of a traffic control signal. The warrant satisfied when the plotted points representing the vehicles per hour on the major-street (total of both approaches) and the corresponding vehicles per hour on the higher-volume minor-street approach (one direction only), for each of any four hours of an average day, all fall above either CA-MUTCD Figure 4C-1 or Figure 4C-2 (depending on applicability) for the combination of approach lanes.

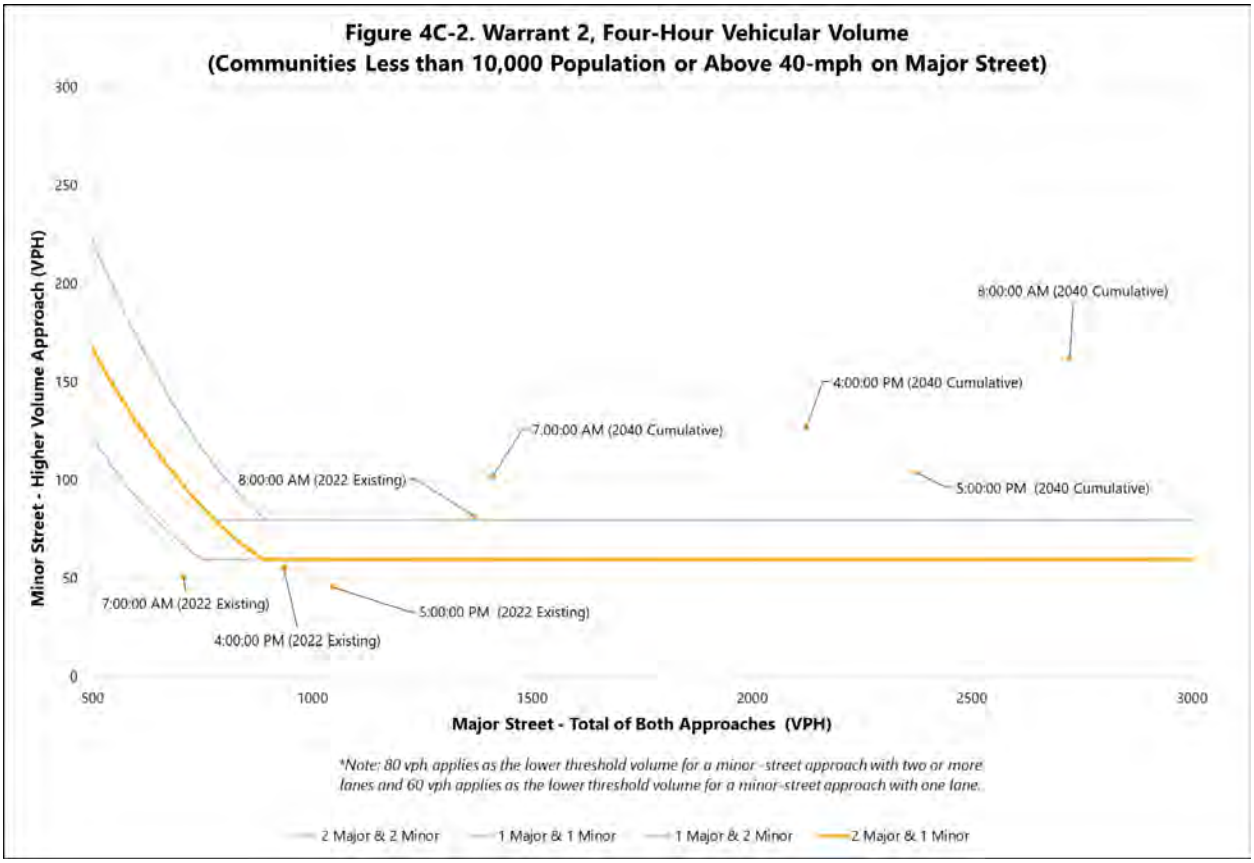
If the posted speed limit or the 85th-percentile speed on the major street exceeds 40 mph, or if the intersection lies within the build-up area of an isolated community having a population of less than 10,000, Figure 4C-2 is used.

Given that the supposed 85th-percentile speed along Cedar Boulevard is above 40 mph, Figures 4C-2 is applicable in the evaluation of warrant. The four hours of turning movement counts, collected in 2022, were utilized in the assessment of the warrant, as illustrated in **Figure 1**. As illustrated, only one of the four hours analyzed under the existing conditions would be above the volume thresholds. As such, a Warrant 2 is not satisfied under existing conditions. This finding does not change when accounting for additional traffic generated by either the Robson or Waymark developments or both (as added project traffic would only add traffic to the major street).

In order to analyze 2040 Cumulative Conditions, the 2022 volumes were grown to 2040 by applying inherent growth factors. These factors were calculated based on the ratio between the 2022 and 2040 peak hour traffic volumes at the subject intersection from the Waymark TIS (1.99 for the a.m. hours and 2.27 for the p.m. hours). As illustrated in **Figure 1**, all four of the hours analyzed under the cumulative conditions would be above the volume thresholds. As such, a Warrant 2 is satisfied under

cumulative conditions. This finding does not change when accounting for additional traffic generated by either the Robson or Waymark developments or both (as added project traffic would only add traffic to the major street).

Figure 1: Warrant 2 Assessment



Warrant 3: Peak-Hour Vehicular Volume

Warrant 3 is intended for use at a location where traffic conditions are such that for a minimum of one hour of an average day, the minor-street traffic suffers undue delay when entering or crossing the major street. Per the CA-MUTCD, the warrant "shall be applied only in unusual cases, such as office complexes, manufacturing plants, industrial complexes, or high-occupancy vehicle (HOV) facilities that attract or discharge large numbers of vehicles over a short time"

The need for a traffic control signal shall be considered if the criteria in either of the following two categories are met:

A. Warrant 3 is satisfied when, for the same one hour of an average day, the total delay on one minor-street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach or five vehicle-hours for a two-lane approach; the

volume on the same minor-street approach equals or exceeds 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes; and the total entering volume serviced during the hour equals or exceeds 650 vehicles per hour for intersections with three approaches or 800 vehicles per hour for intersections with four or more approaches; or

B. Warrant 3 is satisfied when the plotted points representing the vehicles per hour on the major-street (both approaches) and the corresponding vehicles per hour on the higher-volume minor-street approach (one direction only) for one hour of an average day falls above either CA-MUTCD Figure 4C-3 or Figure 4C-4 (depending on applicability) for the combination of approach lanes.

If the posted speed limit or the 85th-percentile speed on the major street exceeds 40 mph, or if the intersection lies within the build-up area of an isolated community having a population of less than 10,000, Figure 4C-4 is used.

Given that the supposed 85th-percentile speed along Cedar Boulevard is above 40 mph, Figure 4C-2 is applicable in the evaluation of warrant. The eight analysis scenarios were assessed as part of Warrant 3. Data for each scenarios was based on a combination of the Robson and Waymark TISs.

- 2022 Existing
- 2022 Existing plus Robson
- 2022 Existing plus Waymark
- 2022 Existing plus Robson and Waymark
- 2040 Cumulative
- 2040 Cumulative plus Robson
- 2040 Cumulative plus Waymark
- 2040 Cumulative plus Robson and Waymark

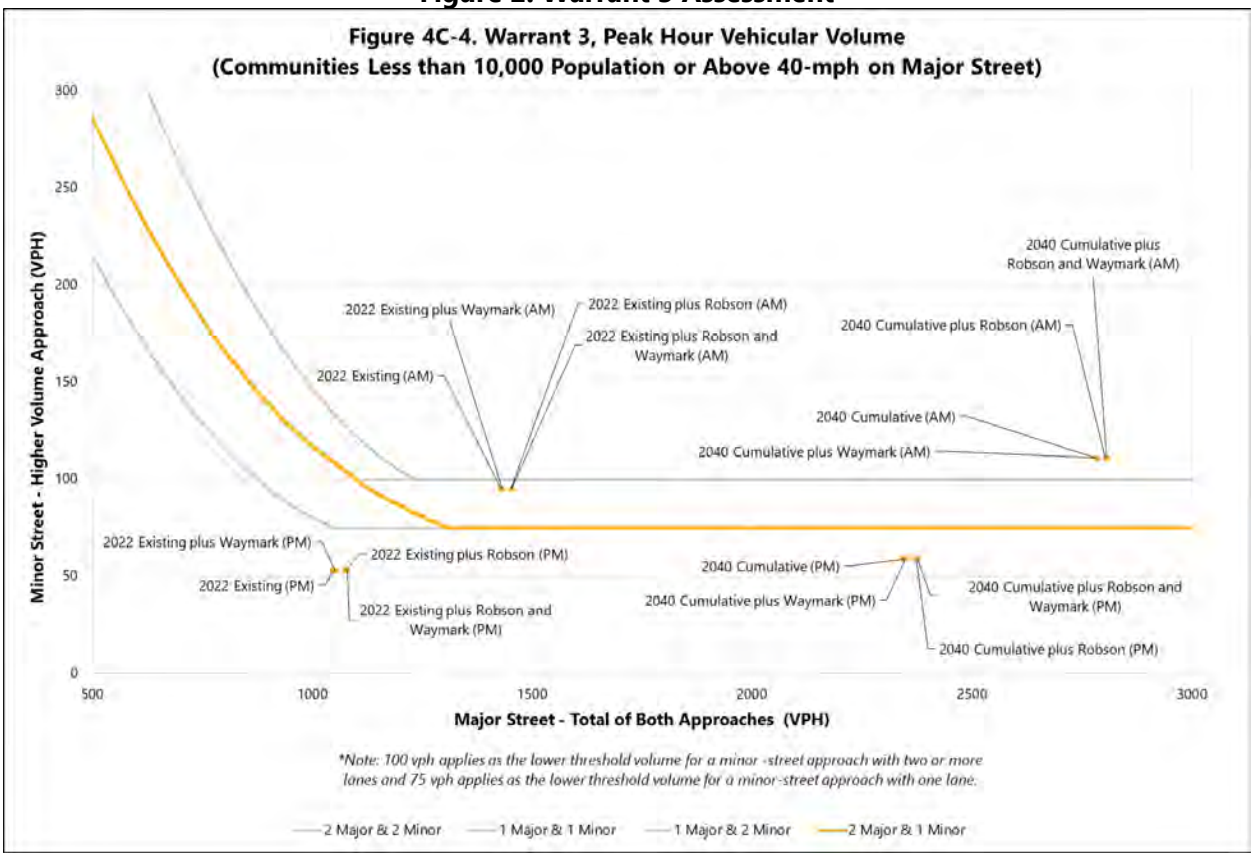
The traffic volumes by scenario are illustrated in **Table 3**, and the assessment is illustrated in **Figure 2**. As illustrated under 2022 existing conditions. The a.m. peak hour would exceed the volume thresholds on Figure 4C-2. This finding does not change when accounting for additional traffic generated by either the Robson or Waymark developments or both (as added project traffic would only add traffic to the major street). This trend is also consistent under 2040 cumulative conditions.

As noted previously, the CA-MUTCD stipulates that "*[t]his signal warrant shall be applied only in unusual cases, such as office complexes, manufacturing plants, industrial complexes, or high-occupancy vehicle facilities that attract or discharge large numbers of vehicles over a short time.*" Given the location of the intersection and surrounding community, the intent of Warrant 3 (i.e., for "unusual cases") does not appear to be satisfied. The applicability of Warrant 3 in this case is questioned.

Table 3: Warrant 3 Assessment Volumes

Scenario	Major	Minor
2022 Existing (AM)	1,429	95
2022 Existing (PM)	1,048	53
2022 Existing plus Robson (AM)	1,452	95
2022 Existing plus Robson (PM)	1,076	53
2022 Existing plus Waymark (AM)	1,431	95
2022 Existing plus Waymark (PM)	1,051	53
2022 Existing plus Robson and Waymark (AM)	1,454	95
2022 Existing plus Robson and Waymark (PM)	1,079	53
2040 Cumulative (AM)	2,781	111
2040 Cumulative (PM)	2,345	59
2040 Cumulative plus Robson (AM)	2,804	111
2040 Cumulative plus Robson (PM)	2,373	59
2040 Cumulative plus Waymark (AM)	2,783	111
2040 Cumulative plus Waymark (PM)	2,348	59
2040 Cumulative plus Robson and Waymark (AM)	2,806	111
2040 Cumulative plus Robson and Waymark (PM)	2,376	59

Figure 2: Warrant 3 Assessment



Warrant 4: Pedestrian Volume

Warrant 4 is satisfied when the pedestrian volume crossing the major street at the study intersection meets either of the following criteria:

A. For each of any four hours of an average day, the plotted points representing the vehicles per hour on the major street (total of both approaches) and the corresponding pedestrians per hour crossing the major street (total of all crossings) all fall above the curve in Figure 4C-5; or
B. For one hour (any four consecutive 15-minute periods) of an average day, the plotted point representing the vehicles per hour on the major street (total of both approaches) and the corresponding pedestrians per hour crossing the major street (total of all crossings) fall above the curve in Figure 4C-7.

If the posted or statutory speed limit or the 85th-percentile speed on the major street exceeds 35 mph, or if the intersection lies within the built-up area of an isolated community having a population of less than 10,000, Figure 4C-6 may be used in place of Figure 4C-5 to evaluate Criterion A and Figure 4C-8 may be used in place of Figure 4C-7 to evaluate Criterion B.

Warrant 4 shall not be applied at locations where the distance to the nearest traffic control signal or STOP sign controlling the street that pedestrians desire to cross is less than 300 feet, unless the proposed traffic control signal will not restrict the progressive movement of traffic.

The minimum thresholds for all four figures are illustrated in **Table 4**.

Table 4: Warrant 4 – Minimum Pedestrian Thresholds (CA-MUTCD Figures 4C-5 to 4C-8)

Minimum Pedestrian Thresholds	Condition A: Four Hours (Pedestrians/Hour)	Condition B: One Hour (Pedestrians/Hour)
Figures 4C-5 and Figure 4C-7	107	133
Figures 4C-6 and Figure 4C-8	75	93

Given that the supposed 85th-percentile speed along Cedar Boulevard is above 40 mph, Figures 4C-6 and FC-8 are applicable in the evaluation of warrant.

Based on the 2022 counts, only five pedestrians were observed crossing Cedar Boulevard during the four-hour count collection; thus, Warrant 4 is not satisfied under existing conditions. Further, with the inclusion of the Robson and Waymark developments, the amount of foot-traffic crossing Cedar Boulevard is not expected to substantially change to a point where Warrant 4 would be triggered.

Warrant 5: School Crossing

Warrant 5 is applicable where schoolchildren crossing the major street are the principal reason for a traffic control signal installation. A minimum of 20 schoolchildren (referring to students in elementary school through high school) are required to cross the road during the highest crossing hour to satisfy the warrant.

The warrant shall not be applied at locations where the distance to the nearest traffic control signal along the major street is less than 300 feet, unless the proposed traffic control signal will not restrict the progressive movement of traffic. Of further note, before a decision is made to install a traffic control signal, consideration shall be given to the implementation of other remedial measures, such as warning signs and flashers, school speed zones, school crossing guards, or a grade-separated crossing.

Based on the 2022 counts, only five pedestrians were observed crossing Cedar Boulevard during the four-hour count collection. TJKM could not verify if any of these pedestrians were schoolchildren, however to total amount being below the threshold to satisfy the Warrant 5. With the inclusion of the Robson and Waymark developments, the amount of foot-traffic crossing Cedar Boulevard may increase, but not by enough to meet the threshold where Warrant 5 would be triggered.

Warrant 7: Crash Experience

Warrant 7 is applicable where the severity and frequency of crashes are the principal reasons to consider the installation of a traffic control signal. This warrant is valid when all the following criteria are met:

A. Adequate trial of alternatives with satisfactory observance and enforcement has failed to reduce the crash frequency;
B. Five or more reported crashes, of types susceptible to correction by a traffic control signal, have occurred within a 12-month period. Each crash should involve personal injury or property damage apparently exceeding the applicable requirements for a reportable crash; and
C. For each of any eight hours of an average day, the vehicles per hour given in both of the 80 percent columns of Condition A in the CA-MUTCD Table 4C-1, or the vehicles per hour in both of the 80 percent columns of Condition B in the CA-MUTCD Table 4C-1 exists on the major-street and the higher-volume minor-street approach, respectively, to the intersection, or the volume of the pedestrian traffic is not less than 80 percent of the requirements specified in Warrant 4. These major-street and minor-street volumes shall be for the same eight hours. On the minor street, the higher volume shall not be required to be on the same approach during each of the eight hours.

TJKM is not aware of any safety trial or enforcement campaigns occurring at the intersection.

With respect to crash history, TJKM requested the reported collision history for an 11-year period (January 1, 2011, to December 31, 2022) at the subject intersection from the Statewide Integrated Traffic Records System (SWITRS) database using the University of California at Berkeley's (UC Berkeley) Transportation Injury Mapping System (TIMS). Based on the TIMS network, it appears that only five major collisions have been reported at the subject intersection (all of these collisions did not occur within the same 12-month period and two reported collisions are not susceptible to correction with the installation of a signal [both involved parked vehicles]). Crash diagrams are provided in **Appendix F**.

Due to Warrant 7 requiring that all three criteria be met, Warrant 7 is not satisfied under 2022 existing conditions.

Of note, this warrant was not assessed under 2040 conditions, given that it is supposed to be based on historical crashes.

FAIR SHARE EVALUATION

As noted in the signal warrant evaluation, a signal is warranted under 2040 future conditions (as per Warrant 2) and may be considered warranted under 2022 existing and 2040 future conditions (as per Warrant 3). In order to account for the contribution of traffic generated by both the Robson and Waymark developments, a fair share analysis was conducted for the subject intersection. "Fair Share" is defined as the percent contribution of project traffic to the growth from Existing Conditions to Cumulative plus Project Conditions.

The Robson development is expected to generate 23 a.m. and 28 p.m. new peak hour trips. The Waymark development is expected to generate 2 a.m. and 3 p.m. new peak hour trips. **Table 4** shows the fair share for a.m. plus p.m. peak hour volumes at these eight intersections. As illustrated, the Robson fair share is anticipated at approximately 1.91%, whereas Waymark's fair share is anticipated at 0.19%.

Currently, it is anticipated that the rough order of magnitude (ROM) cost to install a traffic signal at the subject intersection would be between $600,000 and $750,000. As such, the fair share contribution for both developments (assuming the higher end) would be approximately $15,000 and $2,000, respectively.

Table 4: Fair Share Analysis

Scenarios	Existing	Robson Project Trips	Waymark Project Trips	Cumulative plus Project Trips	Growth	Robson Fair Share	Waymark Fair Share
	(A)	***(B)***	***(C)***	***(D)***	***(E) = (D - A)***	***(F) = (B / E)***	***(G) = (C / E)***
AM Peak Hour	1,524	23	2	2,894	1,370	1.68%	0.15%
PM Peak Hour	1,101	28	3	2,407	1,306	2.14%	0.23%
Combined	***2,625***	***51***	***5***	***5,301***	***2,676***	***1.91%***	***0.19%***

Notes:

(A) Based on 2022 existing volumes from the Waymark TIS.
(B) Based on the Robson TIS
(C) Based on the Waymark TIS.
(D) Based on the 2040 cumulative volumes from the Waymark TIS plus both the Robson and Waymark trip assignments.

Appendix A – Hexagon Signal Warrant Assessment (2021)

HEXAGON TRANSPORTATION CONSULTANTS, INC.

Memorandum

Date: September 24, 2021

To: Jayson Imai, City of Newark

From: Gary Black
Daniel Choi

Subject: Signal Warrant Analysis for the Intersection at Cedar Boulevard & Smith Avenue in Newark, CA

Hexagon Transportation Consultants, Inc. has completed a signal warrant analysis to determine the need for a change in traffic control for the intersection of Cedar Boulevard & Smith Avenue in Newark, California. Vehicular traffic volumes were collected for 24-hours in September 2021 along each approach to the intersection. Peak-hour turning movement counts (7:00-9:00 AM and 4:00-6:00 PM), which included pedestrian crossing movements, were also collected at the intersection. Roadway volume counts and peak-hour turning movement counts can be found in Attachment A.

The intersection was evaluated for the following signal warrants found in the 2014 California Manual on Uniform Traffic Control Devices (CA MUTCD):

- Warrant 1 – Eight-Hour Vehicular Volume
- Warrant 2 – Four-Hour Vehicular Volume
- Warrant 3 – Peak Hour
- Warrant 4 – Pedestrian Volume
- Warrant 5 – School Crossing
- Warrant 7 – Crash Experience

For the signal warrant analysis, Cedar Boulevard was considered the major street, and Smith Avenue was considered the minor road. The MUTCD notes that the satisfaction of a traffic signal warrant or warrants shall not itself require the installation of a traffic signal. Therefore, the analysis presented in this memo is for informational purposes for City of Newark staff to determine whether a traffic signal should be installed at the intersection.

Warrant 1- Eight-Hour Vehicular Volume

The Eight-Hour Vehicular Volume warrant (Warrant 1) consists of two parts: A) the minimum vehicular volume and B) the interruption of continuous traffic. The first part is intended for locations where a large volume of intersection traffic is the principal reason to consider the installation of a traffic signal. The second part is intended for locations where part A is not satisfied and where traffic volume on a major street is so heavy that minor street traffic suffers excessive delay or conflict entering the street.

The minimum volumes needed to meet Warrant 1 is shown on Table 4C-1 in the 2014 CAMUTCD (see below). The warrant should be applied to each of any 8 hours of an average day. Since a

speed study determined that the 85th percentile speed along Cedar Boulevard exceeds 40 mph, 70% volumes are used for the analysis.

Table 4C-1. Warrant 1, Eight-Hour Vehicular Volume

Condition A—Minimum Vehicular Volume

Number of lanes for moving traffic on each approach		Vehicles per hour on major street (total of both approaches)				Vehicles per hour on higher-volume minor-street approach (one direction only)			
Major Street	Minor Street	100%[a]	80%[b]	70%[c]	56%[d]	100%[a]	80%[b]	70%[c]	56%[d]
1	1	500	400	350	280	150	120	105	84
2 or more	1	600	480	420	336	150	120	105	84
2 or more	2 or more	600	480	420	336	200	160	140	112
1	2 or more	500	400	350	280	200	160	140	112

Condition B—Interruption of Continuous Traffic

Number of lanes for moving traffic on each approach		Vehicles per hour on major street (total of both approaches)				Vehicles per hour on higher-volume minor-street approach (one direction only)			
Major Street	Minor Street	100%[a]	80%[b]	70%[c]	56%[d]	100%[a]	80%[b]	70%[c]	56%[d]
1	1	750	600	525	420	75	60	53	42
2 or more	1	900	720	630	504	75	60	53	42
2 or more	2 or more	900	720	630	504	100	80	70	56
1	2 or more	750	600	525	420	100	80	70	56

[a] Basic minimum hourly volume
[b] Used for combination of Conditions A and B after adequate trial of other remedial measures
[c] May be used when the major-street speed exceeds 40 mph or in an isolated community with a population of less than 10,000
[d] May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-street speed exceeds 40 mph or in an isolated community with a population of less than 10,000

Warrant 1 would be met under the following conditions:

a) Part A is met under the 100% basic minimum hourly volume (70% when major-street approach exceeds 40 mph)
b) Part B is met under the 100% basic minimum hourly volume (70% when major-street approach exceeds 40 mph)
c) Parts A and B are met under the 80% basic minimum hourly volume (56% when major-street approach exceeds 40 mph)

The vehicular volumes collected finds that **Warrant 1 is not met** during any 8 hours at the intersection. The signal warrant worksheet can be found in Attachment B.

Warrant 2- Four-Hour Vehicular Volume

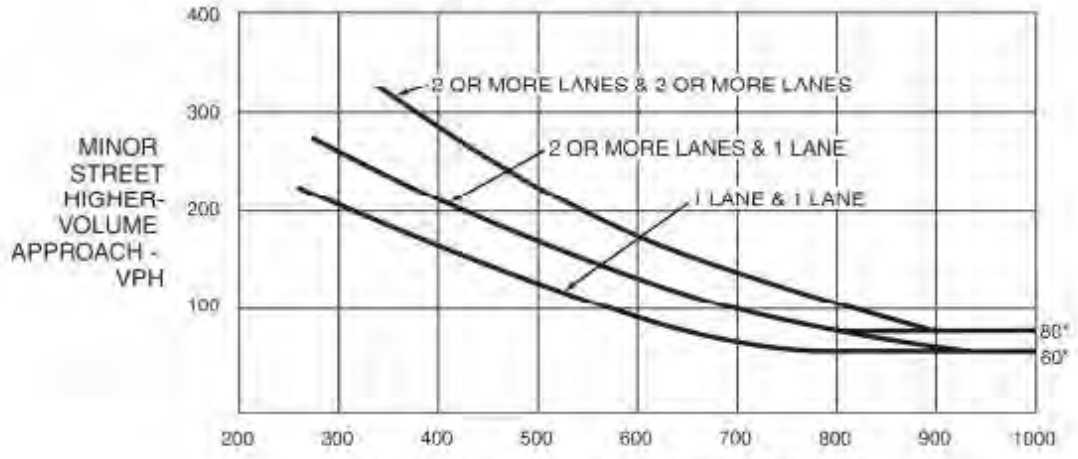
The Four-Hour Vehicular Volume warrant (Warrant 2) is intended for locations where volume of intersecting traffic is the principal reason to consider the installation of a traffic signal. The hourly volume of the total of both major street approaches should be plotted against the minor street

approach volume for any four hours of an average day. Since a speed study determined that the 85th percentile speed along Cedar Boulevard exceeds 40 mph, 70% volumes are used for the analysis.

For Warrant 2 to be met, the plotted point of any four hours of an average day should be above the "2 OR MORE LANES & 1 LANE" line of Figure 4C-2 in the 2014 CAMUTCD (see below).

Figure 4C-2. Warrant 2, Four-Hour Vehicular Volume (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*Note: 80 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 60 vph applies as the lower threshold volume for a minor-street approach with one lane.

Based on the plotted points of the roadway vehicular volumes collected, **Warrant 2 is not met** during any 4 hours at the intersection. The signal warrant worksheet can be found in Attachment B.

Warrant 3- Peak Hour

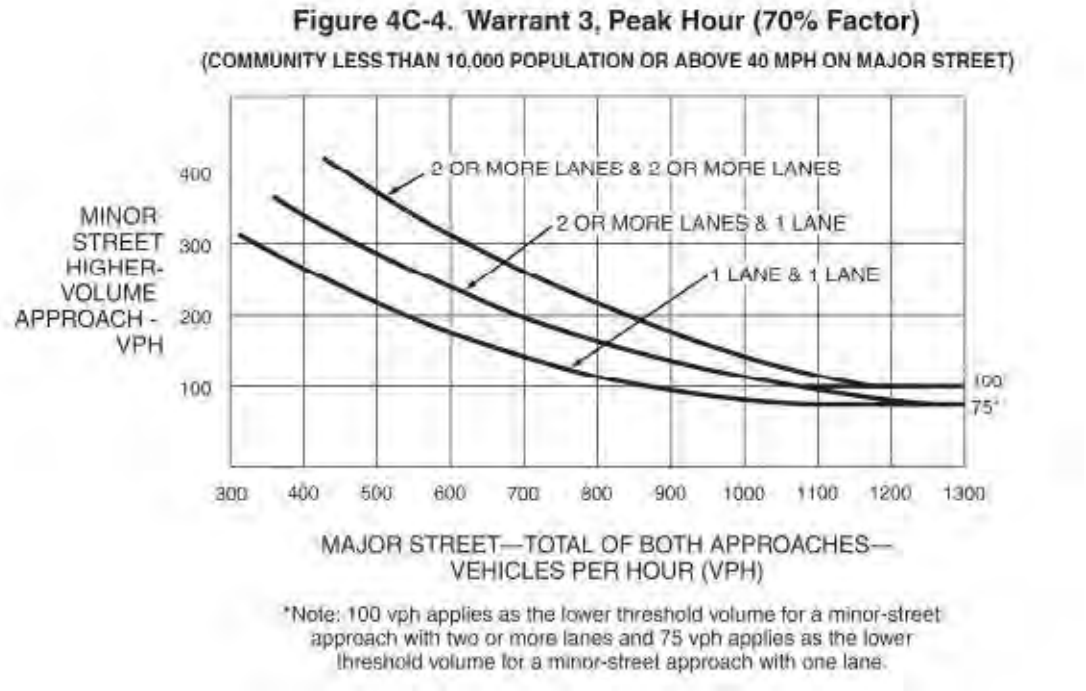
The Peak Hour signal warrant (Warrant 3) is intended for use at locations where traffic conditions are such that for a minimum of 1 hour of an average day, the minor street approach suffers undue delay when entering or crossing the major street. Warrant 3 consists of two parts and would be met when either part meets the warrant conditions. The two parts are as follows:

Part A: All three conditions of Part A must be met:

1) The total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a STOP sign equals or exceeds: 4 vehicle-hours for a one-lane approach and
2) The total volume on the same minor-street approach (one direction only) equals or exceeds 100 vehicles per hour for one moving lane of traffic and
3) The total entering volume serviced during the hour equals or exceeds 650 vehicles per hour for intersections with three approaches

Part B: The plotted point of representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the minor street approach should be above the "2 OR MORE LANES & 1 LANE" line of Figure 4C-2 in the 2014 CAMUTCD (see below).

Since a speed study determined that the 85th percentile speed along Cedar Boulevard exceeds 40 mph, 70% volumes are used for the analysis.



Part B of **Warrant 3 is met** during the peak hour at the intersection. The signal warrant worksheet can be found in Attachement B. It should be noted that the analyses conducted for the 37478 Cedar Boulevard (Robson Homes development) project found that using factored volumes based on historical counts would meet the peak-hour warrant. Since the peak-hour warrant is met, the installation of a traffic signal at the intersection should be considered.

Warrant 4- Pedestrian Volume

The Pedestrian Volume signal warrant (Warrant 4) is intended for use at locations where traffic volumes on a major street is so heavy that pedestrians experience excessive delay in crossing the major street. Warrant 4 consists of two parts and would be met when both parts meet the warrant conditions. The two parts are as follows:

Part 1: Either condition in Part 1 must be met:

1) The plotted point of representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the minor street approach of any four hours in an average day should be above line on Figure 4C-6 in the 2014 CAMUTCD
2) The plotted point of representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the minor street approach of the peak hour in an average day should be above line on Figure 4C-8 in the 2014 CAMUTCD

The plotted points have a minimum pedestrian threshold of 75 and 93 pedestrians crossing the major streets, for the any four hours and peak hour, respectively.

Part 2: Either condition in Part 2 must be met:

1) The distance to the nearest traffic signal along the major street is greater than 300 ft
2) The proposed traffic signal will not restrict progressive traffic flow along the major street.

Peak-hour turning movement counts found that no pedestrians crossed the major street during the peak hours. Since no pedestrians crossed the major street during the peak hours, it can be concluded that **Warrant 4 is not met** at the intersection. The proposed Robson Homes project could generate a small number of pedestrian trips at this intersection. The Birch Grove Park, Birch Grove Elementary School, and businesses along Cherry Street are located west of the intersection and would require any pedestrian trips to cross Cedar Boulevard. However, the addition of project-generated trips would not generate enough pedestrian trips to meet the minimum thresholds of Warrant 4.

Warrant 5- School Crossing

The School Crossing signal warrant (Warrant 5) is intended for application where the fact that schoolchildren cross the major street is the principal reason to consider installing a traffic control signal. Consideration shall be given to other remedial measures such as warning signs, school speed zones, and school crossing guards before a traffic control signal should be considered.

As discussed above, turning movement counts found that no pedestrians crossed the major street during the peak hours. Therefore, it can be concluded **Warrant 5 is not met** at the intersection.

Warrant 7- Crash Experience

The Crash Experience signal warrant (Warrant 7) is intended for application where the severity and frequency of crashes are the principal reasons to consider installing a traffic signal. Warrant 7 would be met when all of the following conditions are met:

a) Adequate trial of alternatives with satisfactory observance and enforcement has failed to reduce the crash frequency and
b) Five or more reported crashes of types susceptible to correction by a traffic control signal, have occurred within a 12-month period, each crash involving personal injury or property damage apparently exceeding the applicable requirements for a reportable crash and
c) For each of any 8 hours of an average day, the vehicles per hour (vph) given in both of the 80 percent columns of Condition A in Table 4C-1, or the vph in both of the 80 percent columns of Condition B in Table 4C-1 exists on the major-street and the higher-volume minor-street approach, respectively, to the intersection, or the volume of pedestrian traffic is not less than 80 percent of the requirements specified in the Pedestrian Volume warrant. These major-street and minor-street volumes shall be for the same 8 hours. On the minor street, the higher volume shall not be required to be on the same approach during each of the 8 hours.

The engineering and traffic study for Cedar Boulevard, between Central Avenue and Moores Avenue found that a total for four accidents occurred along the corridor between 2012 and 2016. One of these accidents occurred at the Cedar Boulevard & Smith Avenue intersection. Recent data from the Statewide Integrated Traffic Records System (SWITRS) found that two accidents have occurred at the intersection in the last ten years.

Warrant 7 is not met because all three conditions of the warrant are not met for this intersection. The signal warrant worksheet can be found in Attachment B.

Conclusions

The MUTCD provides signal warrants to provide guidance on when a traffic signal should be considered at an unsignalized intersection. Warrants 1, 2, 3, 4, 5, and 7 were evaluated for the intersection of Cedar Boulevard and Smith Avenue. The analysis finds that only the peak-hour signal warrant (Warrant 3) is met based on roadway volume data. Warrants 1, 2, 4, 5, and 7 are not met based on roadway volume data, peak-hour turning movement counts, and historical crash data. Since the peak-hour warrant is met, the installation of a traffic signal at the intersection should be considered.

Cedar and Smith Signal Warrant Analysis
Attachments

Attachment A

Roadway Counts

All Traffic Data Services, LLC

www.alltrafficdata.net

Site Code: 1
Station ID:
CEDAR BLVD N.O SMITH AVE

Start Time	14-Sep-21 Tue	SB								
12:00 AM		27								
01:00		10								
02:00		7								
03:00		8								
04:00		21								
05:00		73								
06:00		148								
07:00		499								
08:00		**819**								
09:00		277								
10:00		281								
11:00		321								
12:00 PM		331								
01:00		332								
02:00		542								
03:00		**774**								
04:00		631								
05:00		484								
06:00		355								
07:00		247								
08:00		151								
09:00		102								
10:00		44								
11:00		34								
Total		6518								
AM Peak	-	08:00	-	-	-	-	-	-	-	-
Vol.	-	819	-	-	-	-	-	-	-	-
PM Peak	-	15:00	-	-	-	-	-	-	-	-
Vol.	-	774	-	-	-	-	-	-	-	-
Grand Total		6518								
ADT		ADT 6,518		AADT 6,518						

All Traffic Data Services, LLC

www.alltrafficdata.net

Site Code: 2
Station ID:
CEDAR BLVD S.O SMITH AVE

Start Time	14-Sep-21 Tue	NB								
12:00 AM		35								
01:00		16								
02:00		6								
03:00		8								
04:00		7								
05:00		26								
06:00		72								
07:00		260								
08:00		**453**								
09:00		210								
10:00		214								
11:00		255								
12:00 PM		317								
01:00		357								
02:00		426								
03:00		**877**								
04:00		534								
05:00		472								
06:00		472								
07:00		330								
08:00		195								
09:00		145								
10:00		81								
11:00		59								
Total		5827								
AM Peak	-	08:00	-	-	-	-	-	-	-	-
Vol.	-	453	-	-	-	-	-	-	-	-
PM Peak	-	15:00	-	-	-	-	-	-	-	-
Vol.	-	877	-	-	-	-	-	-	-	-
Grand Total		5827								
ADT		ADT 5,827		AADT 5,827						

All Traffic Data Services, LLC

www.alltrafficdata.net

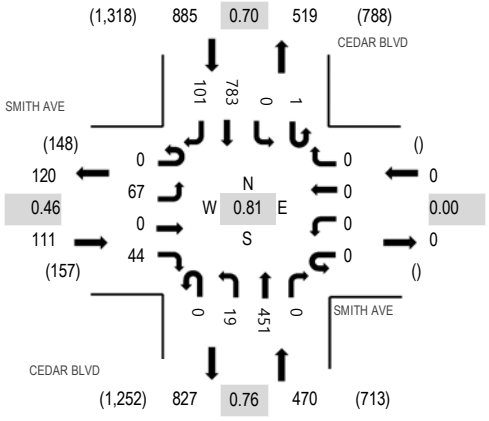
Site Code: 3
Station ID:
SMITH AVE W.O CEDAR BLVD

Start Time	14-Sep-21 Tue	EB								
12:00 AM		3								
01:00		1								
02:00		1								
03:00		3								
04:00		3								
05:00		20								
06:00		17								
07:00		53								
08:00		**104**								
09:00		38								
10:00		34								
11:00		39								
12:00 PM		49								
01:00		42								
02:00		**129**								
03:00		117								
04:00		54								
05:00		38								
06:00		33								
07:00		33								
08:00		19								
09:00		10								
10:00		8								
11:00		5								
Total		853								
AM Peak	-	08:00	-	-	-	-	-	-	-	-
Vol.	-	104	-	-	-	-	-	-	-	-
PM Peak	-	14:00	-	-	-	-	-	-	-	-
Vol.	-	129	-	-	-	-	-	-	-	-
Grand Total		853								
ADT		ADT 853		AADT 853						

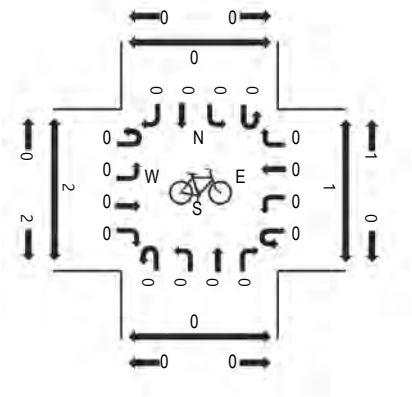
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 1 CEDAR BLVD & SMITH AVE AM
Date: Tuesday, September 14, 2021
Peak Hour: 07:45 AM - 08:45 AM
Peak 15-Minutes: 08:15 AM - 08:30 AM

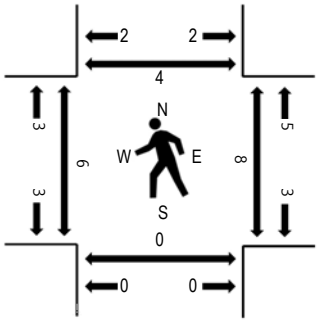
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	SMITH AVE Eastbound				SMITH AVE Westbound				CEDAR BLVD Northbound				CEDAR BLVD Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
7:00 AM	0	7	0	3	0	0	0	0	0	0	25	0	0	0	70	3	108	812	1	0	0	0
7:15 AM	0	6	0	5	0	0	0	0	0	2	72	0	0	0	127	5	217	1,151	1	0	0	0
7:30 AM	0	11	0	3	0	0	0	0	0	0	79	0	0	0	96	7	196	1,386	2	0	0	0
7:45 AM	0	13	0	5	0	0	0	0	0	1	81	0	0	0	165	26	291	1,466	0	2	0	4
8:00 AM	0	7	0	7	0	0	0	0	0	8	107	0	0	0	271	47	447	1,376	2	0	0	0
8:15 AM	0	34	0	26	0	0	0	0	0	7	147	0	0	0	214	24	452		1	6	0	0
8:30 AM	0	13	0	6	0	0	0	0	0	3	116	0	1	0	133	4	276		3	0	0	0
8:45 AM	0	6	0	5	0	0	0	0	0	2	63	0	0	0	116	9	201		1	0	0	1

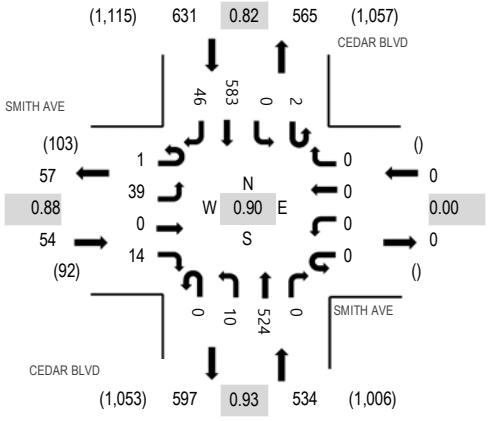
Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lights	0	67	0	44	0	0	0	0	0	19	444	0	1	0	770	100	1,445
Mediums	0	0	0	0	0	0	0	0	0	0	7	0	0	0	13	1	21
Total	0	67	0	44	0	0	0	0	0	19	451	0	1	0	783	101	1,466

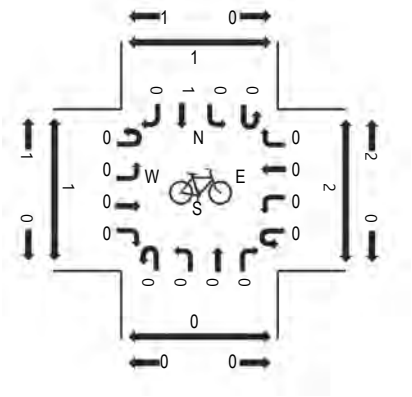
ALL TRAFFIC DATA SERVICES
(303) 216-2439
www.alltrafficdata.net

Location: 1 CEDAR BLVD & SMITH AVE PM
Date: Tuesday, September 14, 2021
Peak Hour: 04:00 PM - 05:00 PM
Peak 15-Minutes: 04:45 PM - 05:00 PM

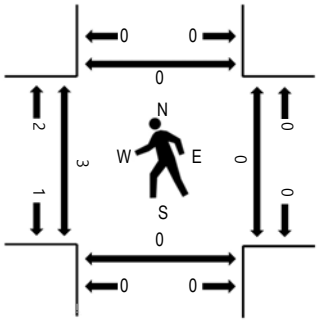
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	SMITH AVE Eastbound				SMITH AVE Westbound				CEDAR BLVD Northbound				CEDAR BLVD Southbound					Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total		West	East	South	North
4:00 PM	0	9	0	2	0	0	0	0	0	1	142	0	1	0	141	16	312	1,219	0	0	0	0
4:15 PM	0	11	0	5	0	0	0	0	0	4	121	0	0	0	124	7	272	1,186	0	0	0	0
4:30 PM	0	9	0	4	0	0	0	0	0	2	131	0	0	0	134	16	296	1,145	2	0	0	0
4:45 PM	1	10	0	3	0	0	0	0	0	3	130	0	1	0	184	7	339	1,084	1	0	0	0
5:00 PM	0	7	0	6	0	0	0	0	0	2	125	0	0	0	129	10	279	994	0	0	0	0
5:15 PM	0	7	0	0	0	0	0	0	0	4	110	0	0	0	98	12	231		0	0	0	0
5:30 PM	0	11	0	1	0	0	0	0	0	0	107	0	0	0	105	11	235		1	0	0	0
5:45 PM	0	3	0	3	0	0	0	0	0	2	122	0	0	0	114	5	249		1	0	0	0

Peak Rolling Hour Flow Rates

Vehicle Type	Eastbound				Westbound				Northbound				Southbound				Total
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
Lights	1	39	0	14	0	0	0	0	0	10	513	0	2	0	569	45	1,193
Mediums	0	0	0	0	0	0	0	0	0	0	11	0	0	0	11	1	23
Total	1	39	0	14	0	0	0	0	0	10	524	0	2	0	583	46	1,219

Attachment B

Signal Warrant Worksheets

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 1 of 5)

COUNT DATE Sept 14, 2021

DIST ____ CO ____ RTE ____ PM ____

CALC ____ DATE ____

CHK ____ DATE ____

Major St: Cedar Blvd

Minor St: Smith Ave

Critical Approach Speed 44 mph

Critical Approach Speed ____ mph

Speed limit or critical speed on major street traffic > 40 mph..... ☑ } RURAL (R)

In built up area of isolated community of < 10,000 population..... ☐ } or

☐ URBAN (U)

WARRANT 1 - Eight Hour Vehicular Volume SATISFIED YES ☐ NO ☑

(Condition A or Condition B or combination of A and B must be satisfied)

Condition A - Minimum Vehicle Volume 100% SATISFIED YES ☐ NO ☑

80% SATISFIED YES ☐ NO ☑

	MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)				7A	8A	1P				6P	Hour
	U	R	U	R								
APPROACH LANES	1		2 or More									
Both Approaches Major Street	500 (400)	350 (280)	600 (480)	~~420~~ (336)	759	1272	689	968	1651	1165	956	827
Highest Approach Minor Street	150 (120)	~~105~~ (84)	200 (160)	140 (112)	53	104	42	124	117	54	38	33

Condition B - Interruption of Continuous Traffic 100% SATISFIED YES ☐ NO ☑

80% SATISFIED YES ☐ NO ☑

	MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)											Hour
	U	R	U	R								
APPROACH LANES	1		2 or More									
Both Approaches Major Street	750 (600)	525 (420)	900 (720)	~~630~~ (504)								
Highest Approach Minor Street	75 (60)	~~53~~ (42)	100 (80)	70 (56)								

Combination of Conditions A & B SATISFIED YES ☐ NO ☑

REQUIREMENT	CONDITION	✓	FULFILLED
TWO CONDITIONS SATISFIED 80%	A. MINIMUM VEHICULAR VOLUME		Yes ☐ No ☑
	AND, B. INTERRUPTION OF CONTINUOUS TRAFFIC		
AND, AN ADEQUATE TRIAL OF OTHER ALTERNATIVES THAT COULD CAUSE LESS DELAY AND INCONVENIENCE TO TRAFFIC HAS FAILED TO SOLVE THE TRAFFIC PROBLEMS			Yes ☐ No ☑

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 2 of 5)

WARRANT 2 - Four Hour Vehicular Volume **SATISFIED* YES ☐ NO ☑**

Record hourly vehicular volumes for any four hours of an average day.

APPROACH LANES	One	2 or More	8A	2P	3P	4P / Hour
Both Approaches - Major Street		X	1272	1362	1651	1165
Higher Approach - Minor Street	X		104	124	117	54

*All plotted points fall above the applicable curve in Figure 4C-1. (URBAN AREAS)	Yes ☐ No ☐
OR, All plotted points fall above the applicable curve in Figure 4C-2. (RURAL AREAS)	Yes ☐ No ☑

WARRANT 3 - Peak Hour **SATISFIED YES ☑ NO ☐**
(Part A or Part B must be satisfied)

PART A **SATISFIED YES ☐ NO ☑**

(All parts 1, 2, and 3 below must be satisfied for the same one hour, for any four consecutive 15-minute periods)

1. The total delay experienced by traffic on one minor street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach, or five vehicle-hours for a two-lane approach; AND	Yes ☐ No ☑
2. The volume on the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic or 150 vph for two moving lanes; AND	Yes ☑ No ☐
3. The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more approaches or 650 vph for intersections with three approaches.	Yes ☑ No ☐

PART B **SATISFIED YES ☑ NO ☐**

APPROACH LANES	One	2 or More	3P / Hour
Both Approaches - Major Street		X	1651
Higher Approach - Minor Street	X		117

The plotted point falls above the applicable curve in Figure 4C-3. (URBAN AREAS)	Yes ☐ No ☐
OR, The plotted point falls above the applicable curve in Figure 4C-4. (RURAL AREAS)	Yes ☑ No ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 3 of 5)

WARRANT 4 - Pedestrian Volume
(Parts 1 and 2 Must Be Satisfied)

SATISFIED YES ☐ NO ☒

Part 1 (Parts A or B must be satisfied)

	Hours - - ->				
A.	Vehicles per hour for any 4 hours				
	Pedestrians per hour for any 4 hours	0	→	→	→

Figure 4C-5 or Figure 4C-6
SATISFIED YES ☐ NO ☒

	Hours - - ->				
B.	Vehicles per hour for any 1 hour				
	Pedestrians per hour for any 1 hour	0	→	→	→

Figure 4C-7 or Figure 4C-8
SATISFIED YES ☐ NO ☒

Part 2 **SATISFIED YES ☑ NO ☐**

AND, The distance to the nearest traffic signal along the major street is greater than 300 ft	Yes ☑ No ☐
OR, The proposed traffic signal will not restrict progressive traffic flow along the major street.	Yes ☑ No ☐

WARRANT 5 - School Crossing
(Parts A and B Must Be Satisfied)

SATISFIED YES ☐ NO ☒

Part A
Gap/Minutes and # of Children

SATISFIED YES ☐ NO ☒

		Hour
Gaps vs Minutes	Minutes Children Using Crossing	
	Number of Adequate Gaps	
School Age Pedestrians Crossing Street / hr		

Gaps < Minutes YES ☐ NO ☐
AND Children > 20/hr YES ☐ NO ☒

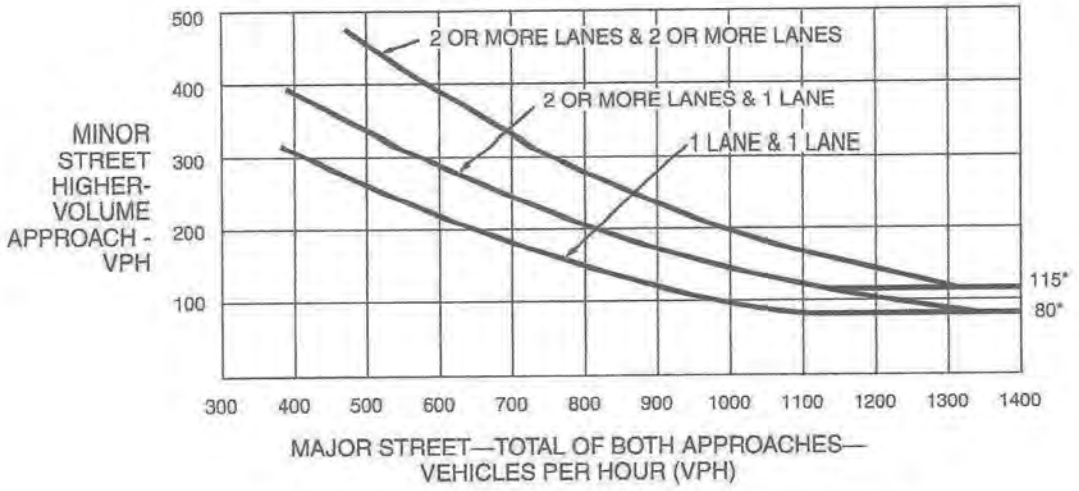
AND, Consideration has been given to less restrictive remedial measures.	Yes ☐ No ☒

Part B **SATISFIED YES ☑ NO ☐**

The distance to the nearest traffic signal along the major street is greater than 300 ft	Yes ☑ No ☐
OR, The proposed signal will not restrict the progressive movement of traffic.	Yes ☑ No ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

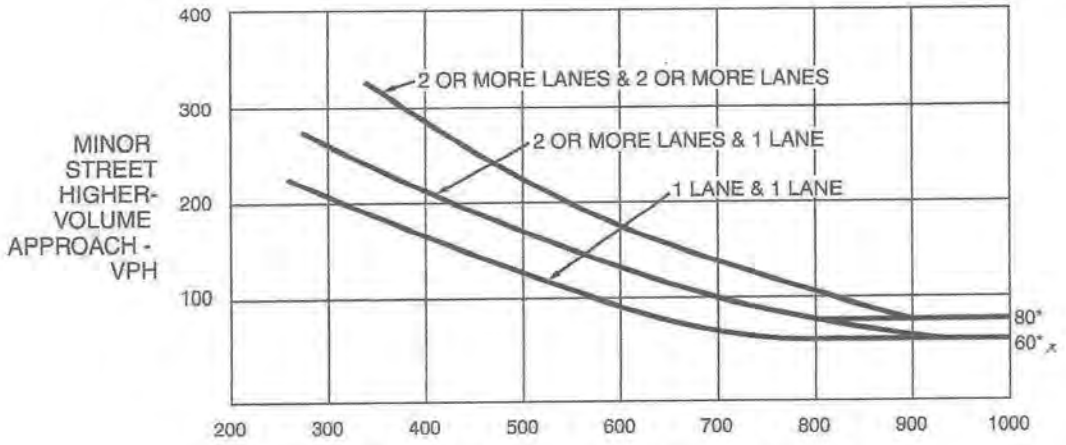
Figure 4C-1. Warrant 2, Four-Hour Vehicular Volume



*Note: 115 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 80 vph applies as the lower threshold volume for a minor-street approach with one lane.

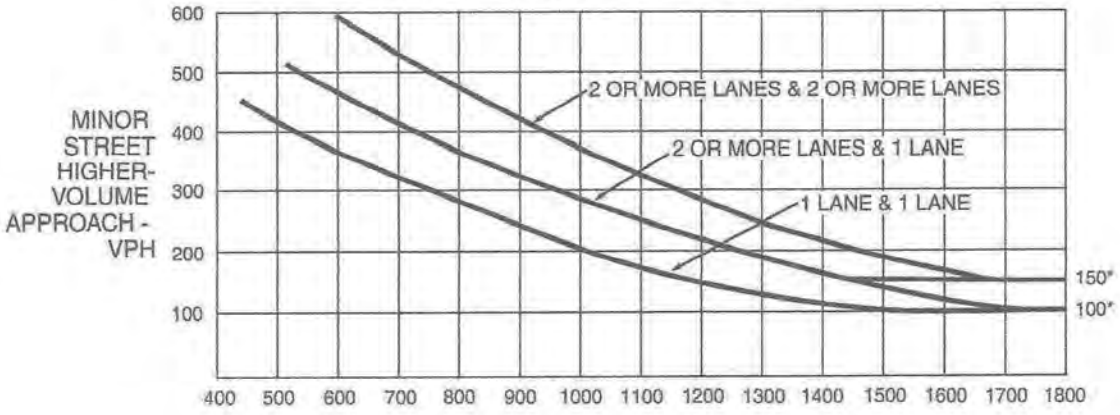
Figure 4C-2. Warrant 2, Four-Hour Vehicular Volume (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*Note: 80 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 60 vph applies as the lower threshold volume for a minor-street approach with one lane.

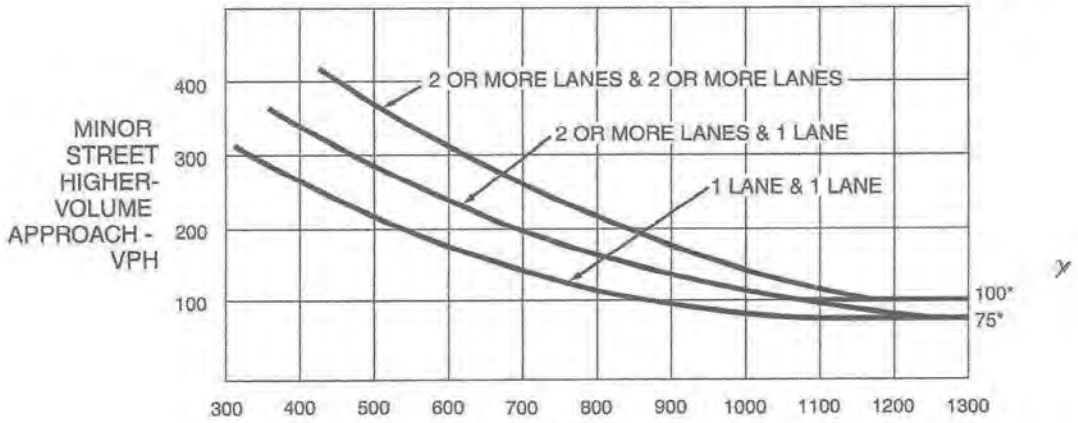
Figure 4C-3. Warrant 3, Peak Hour



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor-street approach with one lane.

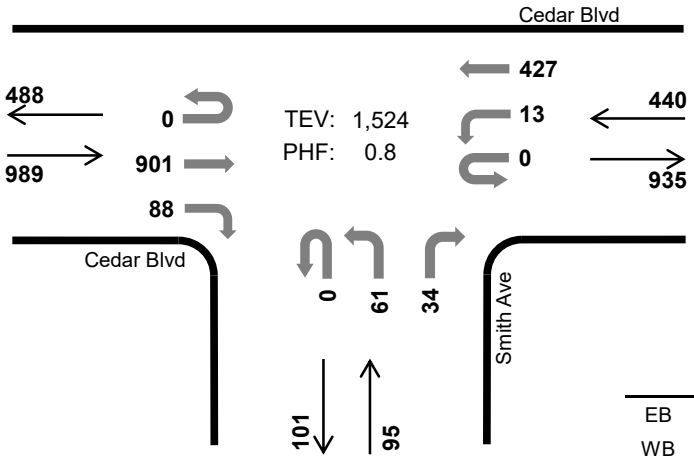
Appendix B – 2022 Traffic Counts

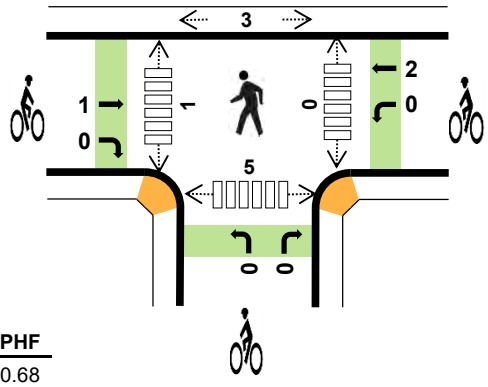
Smith Ave
Cedar Blvd

N

Peak Hour

Date: 09/20/2022
Count Period: 7:00 AM to 9:00 AM
Peak Hour: 7:45 AM to 8:45 AM





	HV %:	PHF
EB	1.0%	0.68
WB	2.0%	0.80
NB	0.0%	0.68
SB	-	-
TOTAL	1.2%	0.80

Two-Hour Count Summaries

Interval Start		Cedar Blvd Eastbound				Cedar Blvd Westbound				Smith Ave Northbound				N/A Southbound				15-min Total	Rolling One Hour
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM		0	0	60	4	0	0	23	0	0	6	0	1	0	0	0	0	94	0
7:15 AM		0	0	105	4	0	0	38	0	0	7	0	3	0	0	0	0	157	0
7:30 AM		1	0	109	11	0	0	72	0	0	9	0	2	0	0	0	0	204	0
7:45 AM		**0**	**0**	**173**	**16**	**0**	**2**	**89**	**0**	**0**	**21**	**0**	**2**	**0**	**0**	**0**	**0**	**303**	758
8:00 AM		**0**	**0**	**320**	**41**	**0**	**2**	**97**	**0**	**0**	**8**	**0**	**7**	**0**	**0**	**0**	**0**	**475**	1,139
8:15 AM		**0**	**0**	**253**	**25**	**0**	**7**	**131**	**0**	**0**	**16**	**0**	**19**	**0**	**0**	**0**	**0**	**451**	1,433
8:30 AM		**0**	**0**	**155**	**6**	**0**	**2**	**110**	**0**	**0**	**16**	**0**	**6**	**0**	**0**	**0**	**0**	**295**	**1,524**
8:45 AM		0	0	148	2	0	1	66	0	0	8	0	2	0	0	0	0	227	1,448
Count Total		1	0	1,323	109	0	14	626	0	0	91	0	42	0	0	0	0	2,206	0
Peak Hour	**All**	**0**	**0**	**901**	**88**	**0**	**13**	**427**	**0**	**0**	**61**	**0**	**34**	**0**	**0**	**0**	**0**	**1,524**	**0**
	HV	**0**	**0**	**10**	**0**	**0**	**0**	**9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**19**	**0**
	HV%	**-**	**-**	**1%**	**0%**	**-**	**0%**	**2%**	**-**	**-**	**0%**	**-**	**0%**	**-**	**-**	**-**	**-**	**1%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	2	3	0	0	*5*	0	1	0	0	*1*	0	0	0	0	*0*
7:15 AM	5	1	0	0	*6*	1	2	0	0	*3*	0	0	0	0	*0*
7:30 AM	1	2	0	0	*3*	0	0	0	0	*0*	2	2	0	1	*5*
7:45 AM	**0**	**2**	**0**	**0**	***2***	**0**	**0**	**0**	**0**	***0***	**0**	**1**	**0**	**1**	*2*
8:00 AM	**6**	**4**	**0**	**0**	***10***	**1**	**1**	**0**	**0**	***2***	**0**	**0**	**2**	**2**	*4*
8:15 AM	**1**	**1**	**0**	**0**	***2***	**0**	**1**	**0**	**0**	***1***	**0**	**0**	**0**	**0**	*0*
8:30 AM	**3**	**2**	**0**	**0**	***5***	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**1**	**2**	***3***
8:45 AM	3	3	1	0	*7*	0	0	0	0	*0*	0	0	0	1	*1*
Count Total	21	18	1	0	*40*	2	5	0	0	*7*	2	3	3	7	*15*
Peak Hr	**10**	**9**	**0**	**0**	***19***	**1**	**2**	**0**	**0**	***3***	**0**	**1**	**3**	**5**	***9***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	Cedar Blvd				Cedar Blvd				Smith Ave				N/A				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	5	0
7:15 AM	0	0	4	1	0	0	1	0	0	0	0	0	0	0	0	0	6	0
7:30 AM	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	3	0
7:45 AM	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	16
8:00 AM	**0**	**0**	**6**	**0**	**0**	**0**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**10**	21
8:15 AM	**0**	**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	17
8:30 AM	**0**	**0**	**3**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**5**	**19**
8:45 AM	0	0	3	0	0	0	3	0	0	0	0	1	0	0	0	0	7	24
Count Total	0	0	20	1	0	0	18	0	0	0	0	1	0	0	0	0	40	0
Peak Hour	**0**	**0**	**10**	**0**	**0**	**0**	**9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**19**	**0**

Two-Hour Count Summaries - Bikes

Interval Start	Cedar Blvd			Cedar Blvd			Smith Ave			N/A			15-min Total	Rolling One Hour
	Eastbound			Westbound			Northbound			Southbound				
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
7:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	0
7:15 AM	0	1	0	0	2	0	0	0	0	0	0	0	3	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	4
8:00 AM	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	5
8:15 AM	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	3
8:30 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Count Total	0	2	0	0	5	0	0	0	0	0	0	0	7	0
Peak Hour	**0**	**1**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**0**

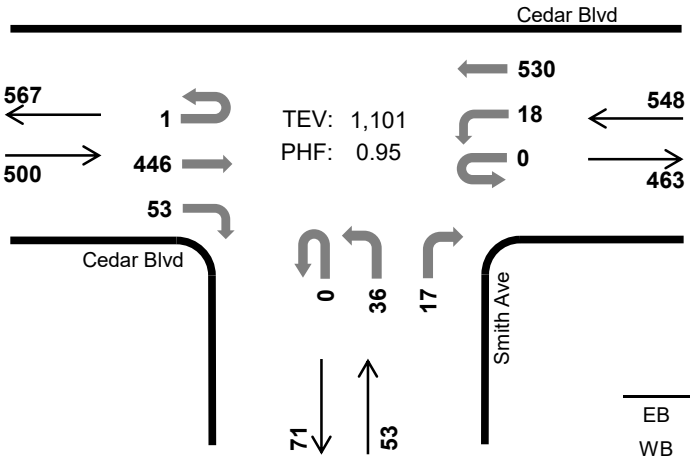
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

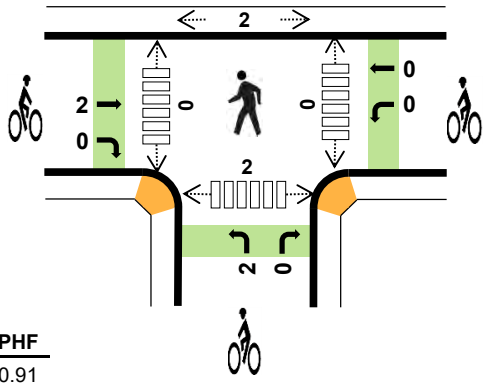
Smith Ave
Cedar Blvd

N

Peak Hour

Date: 09/20/2022
Count Period: 4:00 PM to 6:00 PM
Peak Hour: 4:45 PM to 5:45 PM





	HV %:	PHF
EB	1.6%	0.91
WB	1.5%	0.90
NB	0.0%	0.78
SB	-	-
TOTAL	1.5%	0.95

Two-Hour Count Summaries

Interval Start		Cedar Blvd Eastbound				Cedar Blvd Westbound				Smith Ave Northbound				N/A Southbound				15-min Total	Rolling One Hour
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM		0	0	84	12	0	6	109	0	0	11	0	3	0	0	0	0	225	0
4:15 PM		0	0	117	6	0	0	102	0	0	8	0	3	0	0	0	0	236	0
4:30 PM		0	0	103	11	0	3	127	0	0	12	0	2	0	0	0	0	258	0
4:45 PM		**0**	**0**	**114**	**10**	**0**	**4**	**127**	**0**	**0**	**15**	**0**	**2**	**0**	**0**	**0**	**0**	**272**	991
5:00 PM		**1**	**0**	**121**	**16**	**0**	**9**	**126**	**0**	**0**	**9**	**0**	**7**	**0**	**0**	**0**	**0**	**289**	1,055
5:15 PM		**0**	**0**	**116**	**9**	**0**	**3**	**126**	**0**	**0**	**6**	**0**	**6**	**0**	**0**	**0**	**0**	**266**	1,085
5:30 PM		**0**	**0**	**95**	**18**	**0**	**2**	**151**	**0**	**0**	**6**	**0**	**2**	**0**	**0**	**0**	**0**	**274**	**1,101**
5:45 PM		0	0	107	14	0	3	129	0	0	8	0	2	0	0	0	0	263	1,092
Count Total		1	0	857	96	0	30	997	0	0	75	0	27	0	0	0	0	2,083	0
Peak Hour	**All**	**1**	**0**	**446**	**53**	**0**	**18**	**530**	**0**	**0**	**36**	**0**	**17**	**0**	**0**	**0**	**0**	**1,101**	**0**
	HV	**0**	**0**	**7**	**1**	**0**	**0**	**8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**16**	**0**
	HV%	**0%**	**-**	**2%**	**2%**	**-**	**0%**	**2%**	**-**	**-**	**0%**	**-**	**0%**	**-**	**-**	**-**	**-**	**1%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	3	2	0	0	*5*	1	0	0	0	*1*	0	0	1	2	*3*
4:15 PM	2	2	0	0	*4*	0	0	0	0	*0*	0	0	0	1	*1*
4:30 PM	3	3	0	0	*6*	2	0	0	0	*2*	0	0	0	0	*0*
4:45 PM	**3**	**3**	**0**	**0**	***6***	**1**	**0**	**0**	**0**	***1***	**0**	**0**	**0**	**0**	*0*
5:00 PM	**3**	**3**	**0**	**0**	***6***	**0**	**0**	**2**	**0**	***2***	**0**	**0**	**0**	**2**	*2*
5:15 PM	**0**	**2**	**0**	**0**	***2***	**1**	**0**	**0**	**0**	***1***	**0**	**0**	**1**	**0**	*1*
5:30 PM	**2**	**0**	**0**	**0**	***2***	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**1**	**0**	***1***
5:45 PM	5	3	0	0	*8*	0	1	0	0	*1*	0	0	0	4	*4*
Count Total	21	18	0	0	*39*	5	1	2	0	*8*	0	0	3	9	*12*
Peak Hr	**8**	**8**	**0**	**0**	***16***	**2**	**0**	**2**	**0**	***4***	**0**	**0**	**2**	**2**	***4***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	Cedar Blvd				Cedar Blvd				Smith Ave				N/A				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	0	3	0	0	0	2	0	0	0	0	0	0	0	0	0	5	0
4:15 PM	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	4	0
4:30 PM	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	6	0
4:45 PM	**0**	**0**	**2**	**1**	**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	21
5:00 PM	**0**	**0**	**3**	**0**	**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	22
5:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	20
5:30 PM	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**16**
5:45 PM	0	0	4	1	0	0	3	0	0	0	0	0	0	0	0	0	8	18
Count Total	0	0	19	2	0	0	18	0	0	0	0	0	0	0	0	0	39	0
Peak Hour	**0**	**0**	**7**	**1**	**0**	**0**	**8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**16**	**0**

Two-Hour Count Summaries - Bikes

Interval Start	Cedar Blvd			Cedar Blvd			Smith Ave			N/A			15-min Total	Rolling One Hour
	Eastbound			Westbound			Northbound			Southbound				
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	2	0	0	0	0	0	0	0	0	0	2	0
4:45 PM	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	4
5:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**2**	5
5:15 PM	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	6
5:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**
5:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	1	4
Count Total	0	3	2	0	1	0	2	0	0	0	0	0	8	0
Peak Hour	**0**	**2**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**4**	**0**

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Appendix C – Excerpts from the Robson TIS

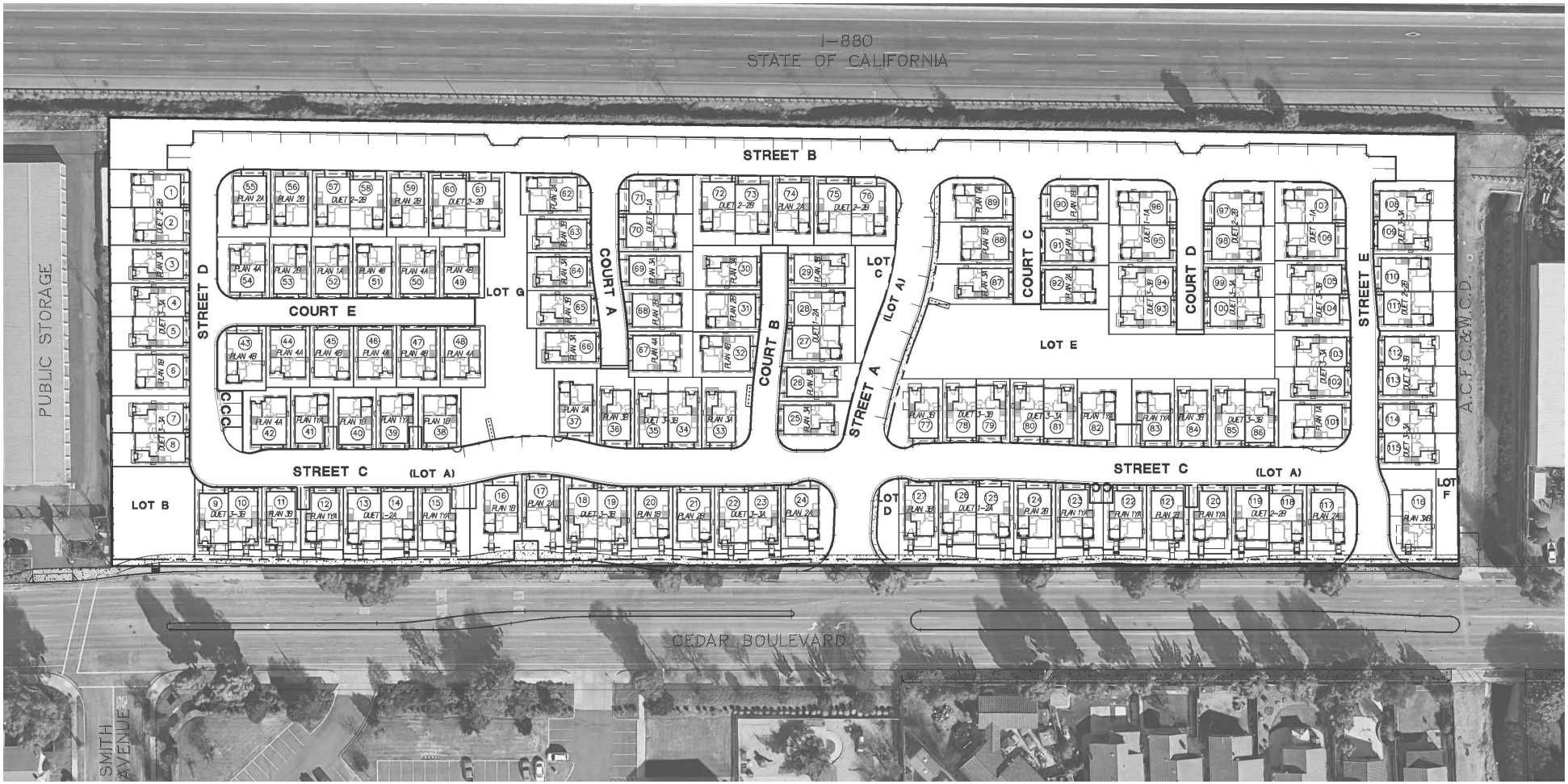


Figure 2
Site Plan

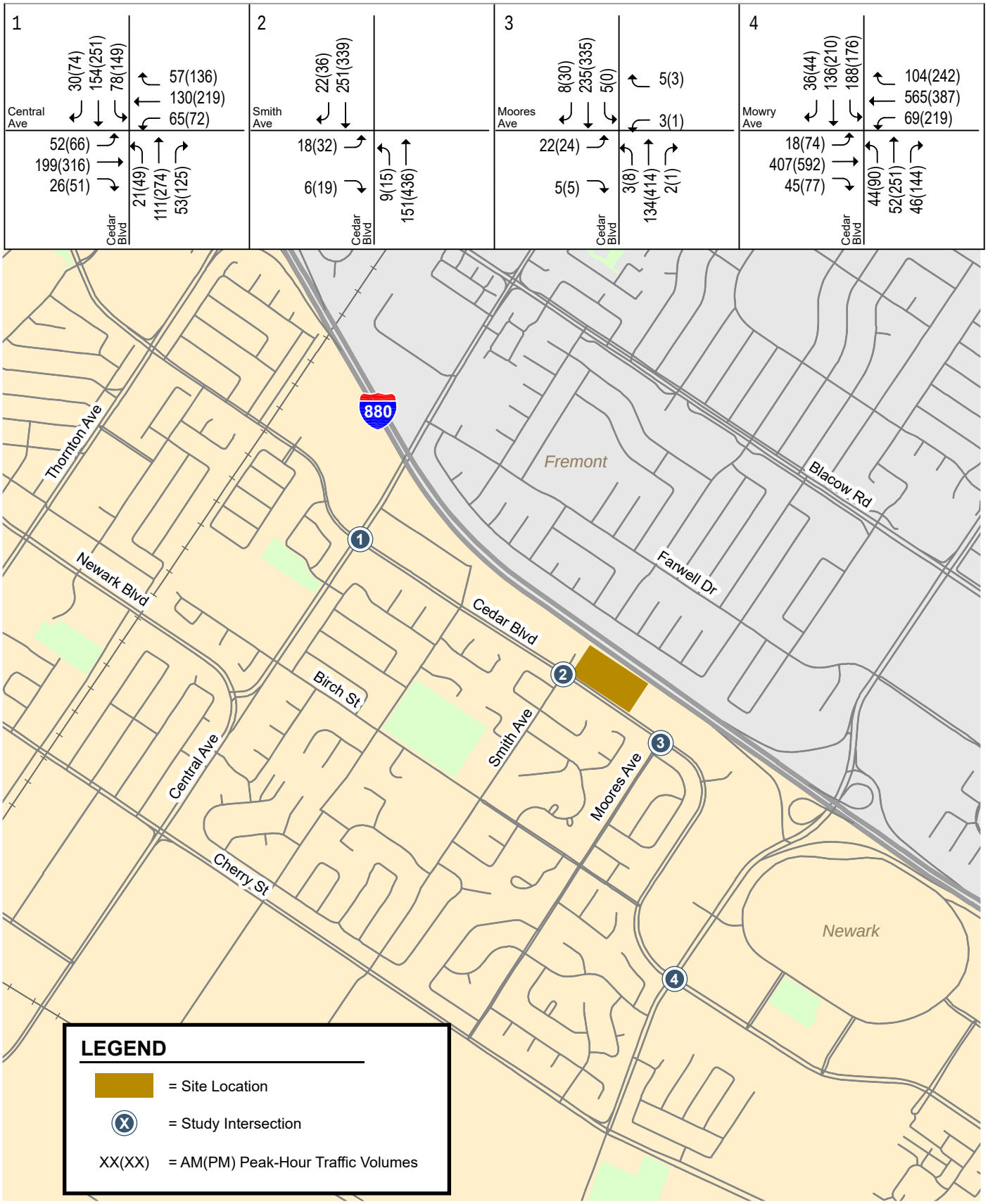


Figure 6
Existing Traffic Volumes

38478 Cedar Blvd

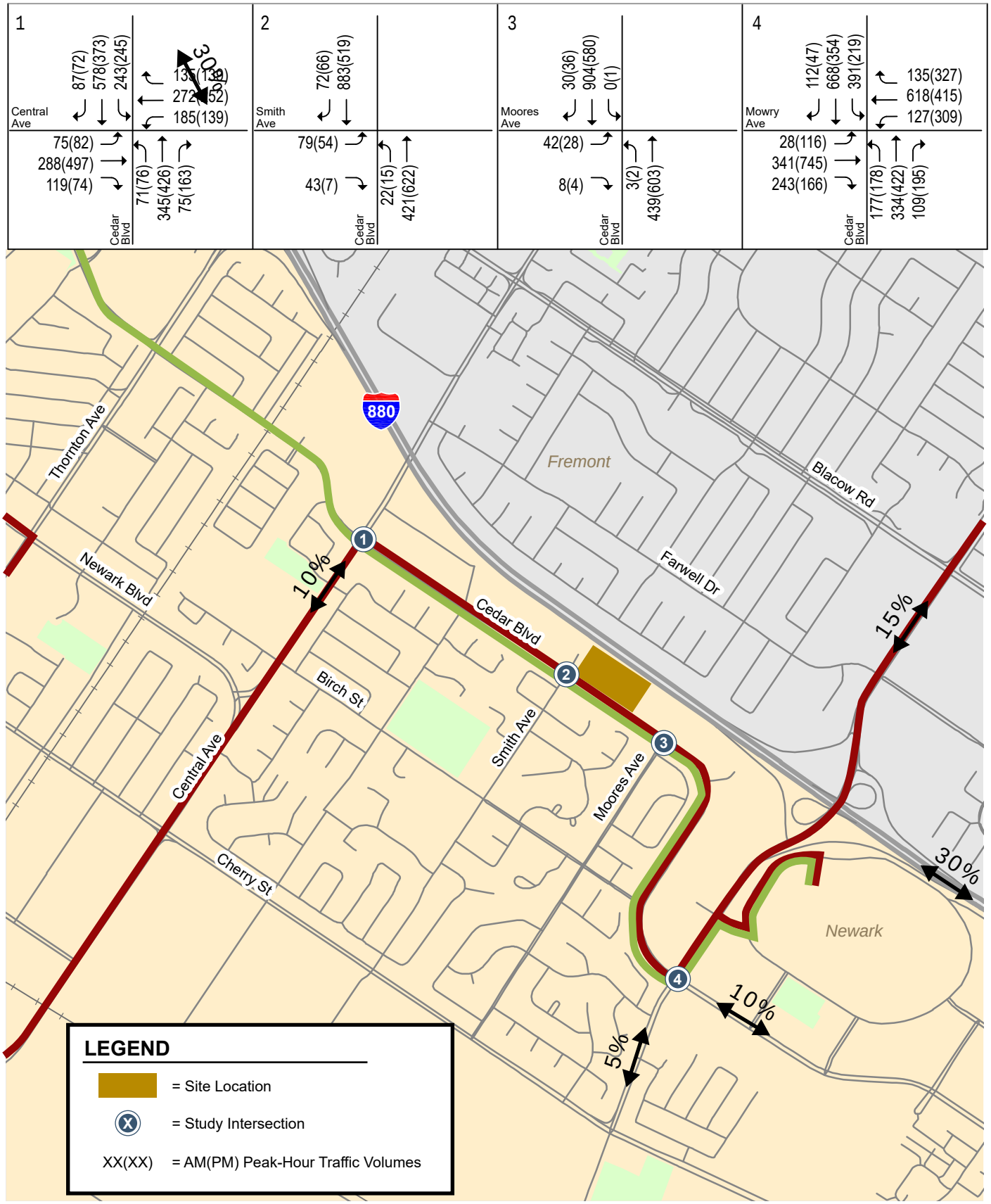


Figure 7
Existing (Factored) Traffic Volumes

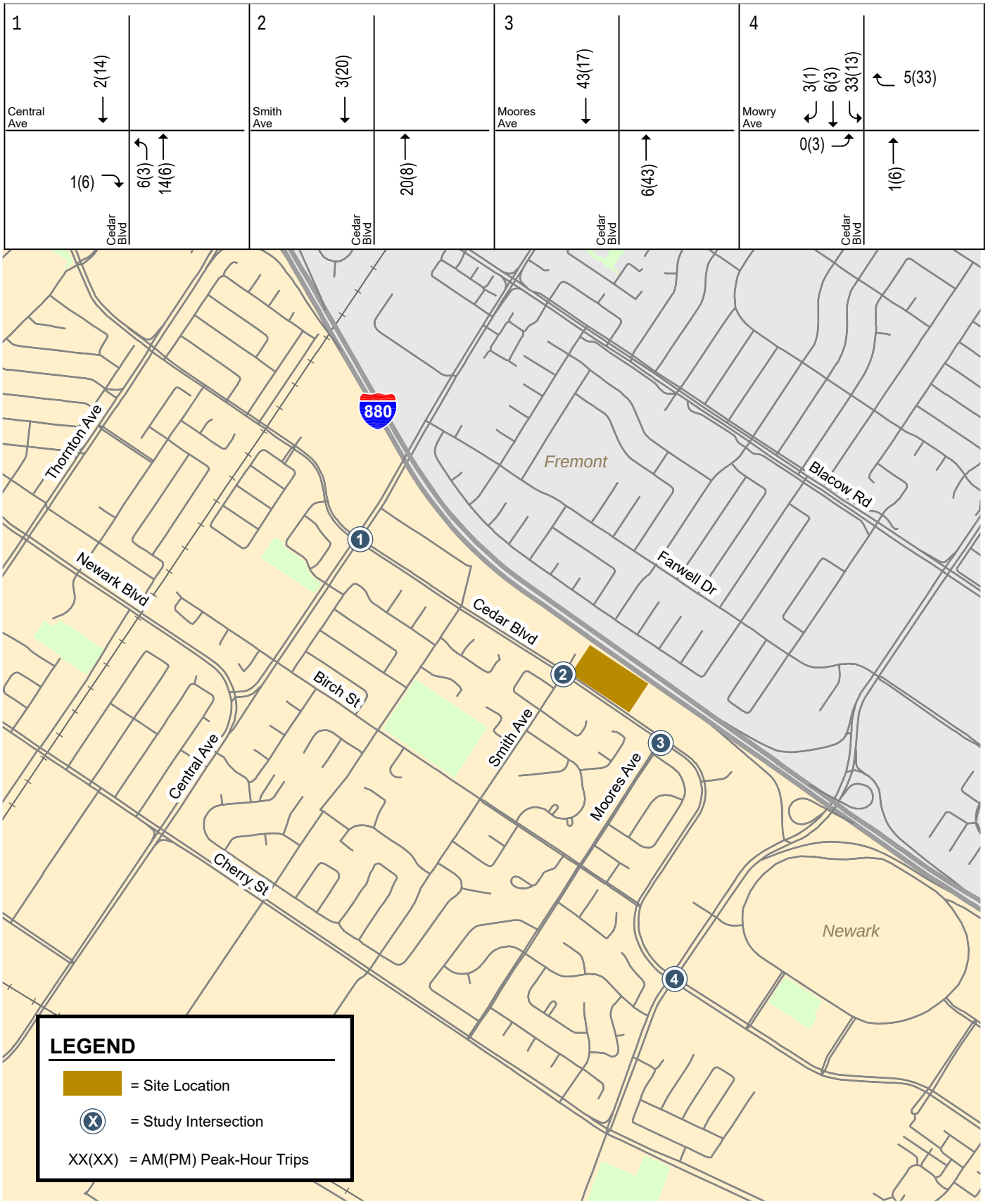


Figure 9
Trip Assignment

6. Other Transportation Issues

This chapter presents other transportation issues associated with the project. These include an analysis of:

- Signal warrants
- Intersection queuing analysis
- Site access and circulation
- Truck access and circulation
- Parking analysis
- Potential impacts to pedestrian, bicycle, and transit facilities

The analyses in this chapter are based on professional judgement in accordance with the standards and methods employed by traffic engineering professionals. Although operational issues are not considered CEQA impacts, they do describe traffic conditions that are relevant to describing the effects of added project traffic.

Signal Warrant Analysis

A signal warrant check (*MUTCD 2014 edition, Section 4C, Warrant 3*) was conducted for the unsignalized study intersection of Cedar Boulevard and Smith Avenue based on the peak-hour traffic warrant. The minor street threshold is 100 vehicles for a single lane minor road.

For the signal warrant analysis, Cedar Boulevard was considered the major street, while Smith Avenue was considered the minor road. Additionally, the City has recently conducted a speed study along Cedar Boulevard that shows the average vehicle speed along Cedar Boulevard in the vicinity of the intersection is 44 mph. Therefore, 70% factor values were used for the evaluation of signal warrants. The analysis revealed that the signal warrant is met under the Existing AM (Factored) and Cumulative AM peak hour scenarios. The project would not add any trips to the minor road approach and would add a small number of trips relative to the existing and estimated future volume along Cedar Boulevard. The project would not change traffic operations at this intersection in any noticeable way. The peak-hour signal warrant calculation sheets can be found in Appendix E.

Since the peak-hour signal warrant was met under the existing (factored) scenario, a supplemental signal warrant analysis was conducted in September 2021 to provide city staff with information to determine whether a signal should be installed. The following signal warrants were analyzed using data collected in September 2021:

- Warrant 1 – Eight-Hour Vehicular Volume
- Warrant 2 – Four-Hour Vehicular Volume

- Warrant 3 – Peak Hour
- Warrant 4 – Pedestrian Volume
- Warrant 5 – School Crossing
- Warrant 7 – Crash Experience

The supplemental signal warrant analysis memo to City of Newark staff can be found in Appendix F. The MUTCD notes that the satisfaction of a traffic signal warrant or warrants shall not itself require the installation of a traffic control signal. Therefore, the analysis presented in the signal warrant analyses is for informational purposes for City of Newark staff to determine whether a traffic signal should be installed at the intersection.

The results of the supplemental signal warrant analysis finds that the peak-hour warrant (Warrant 3) is met. Warrants 1, 2, 4, 5, and 7 are not met based on roadway volume data, peak-hour turning movement counts, and historical crash data. Since the peak-hour warrant is met, the installation of a traffic signal at the intersection should be considered.

Recommendation: The project should coordinate with city staff to determine whether a signal should be installed at the intersection of Cedar Boulevard & Smith Avenue.

Intersection Queueing Analysis

The operations analysis is based on vehicle queuing for turning movements where the project would add at least 10 new peak-hour trips (see Table 9). The following turn movements were examined as part of the queuing analysis for this project:

- Left turn from southbound Cedar Boulevard to eastbound Mowry Avenue (AM)
- Right turn from westbound Mowry Avenue to northbound Cedar Boulevard (PM)

Locations where the vehicular queues would be deficient are discussed below.

Cedar Boulevard and Mowry Avenue

Under all scenarios, the Cedar Boulevard and Mowry Avenue intersection was calculated to have insufficient storage for the southbound left turn movement during the AM peak hour. Since the southbound left turn movement exceeds the storage capacity during the heaviest cycles under existing conditions, the City of Newark should consider adding additional storage for the southbound left turn pocket at Cedar Boulevard and Mowry Avenue. A portion of the existing median could be removed to accommodate additional storage space.

Under existing and cumulative conditions, the project would add one vehicle to the southbound left turn maximum queue. The applicant should discuss with the City of Newark whether the left-turn pocket length should be extended.

Recommendation: Since the project would add trips to a left-turn pocket that already has insufficient storage capacity during the heaviest cycles, the project should discuss with the City of Newark whether the left turn pocket should be extended.

Appendix D – Excerpts from the Waymark TIS

Figure 2: Site Plan

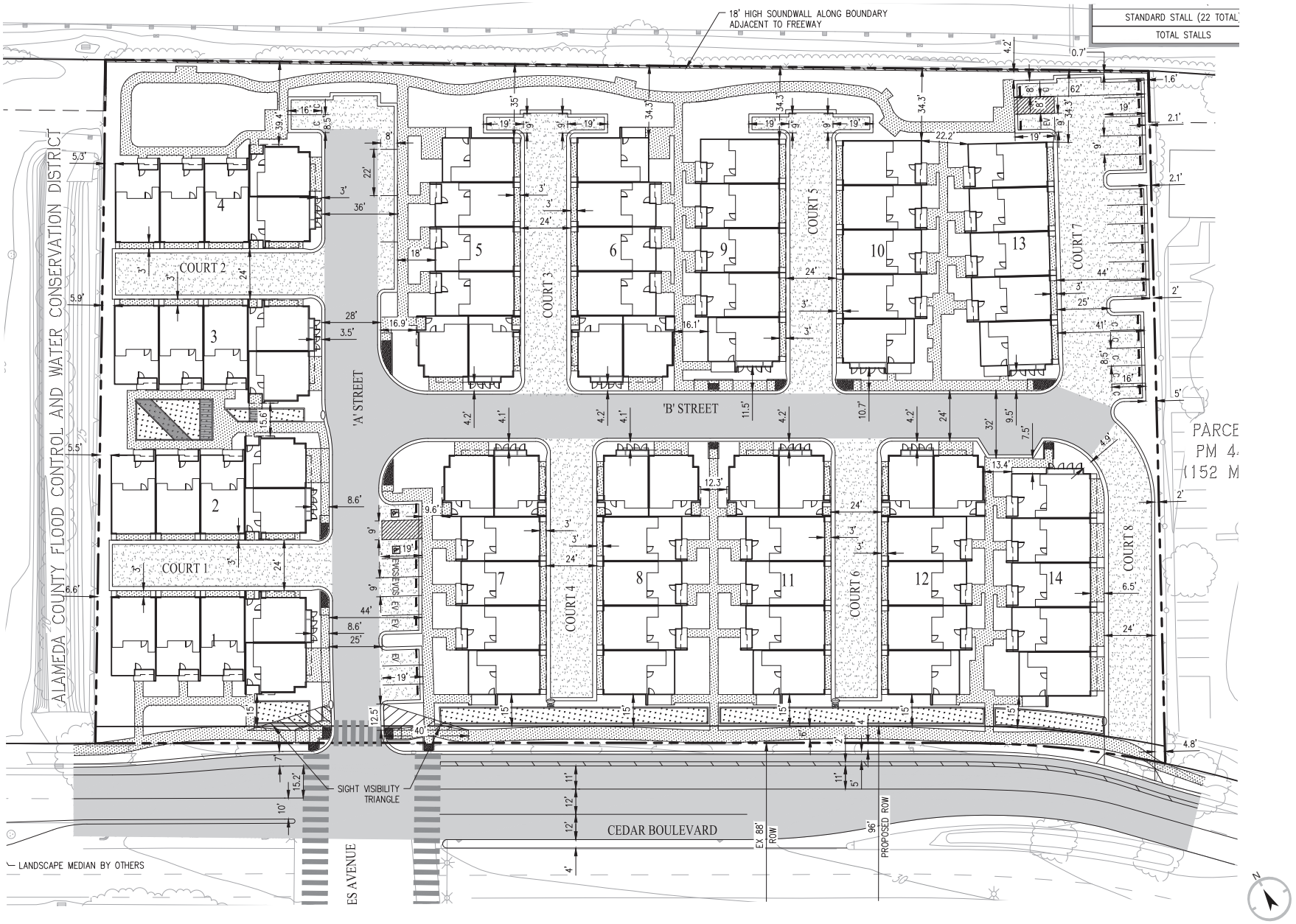
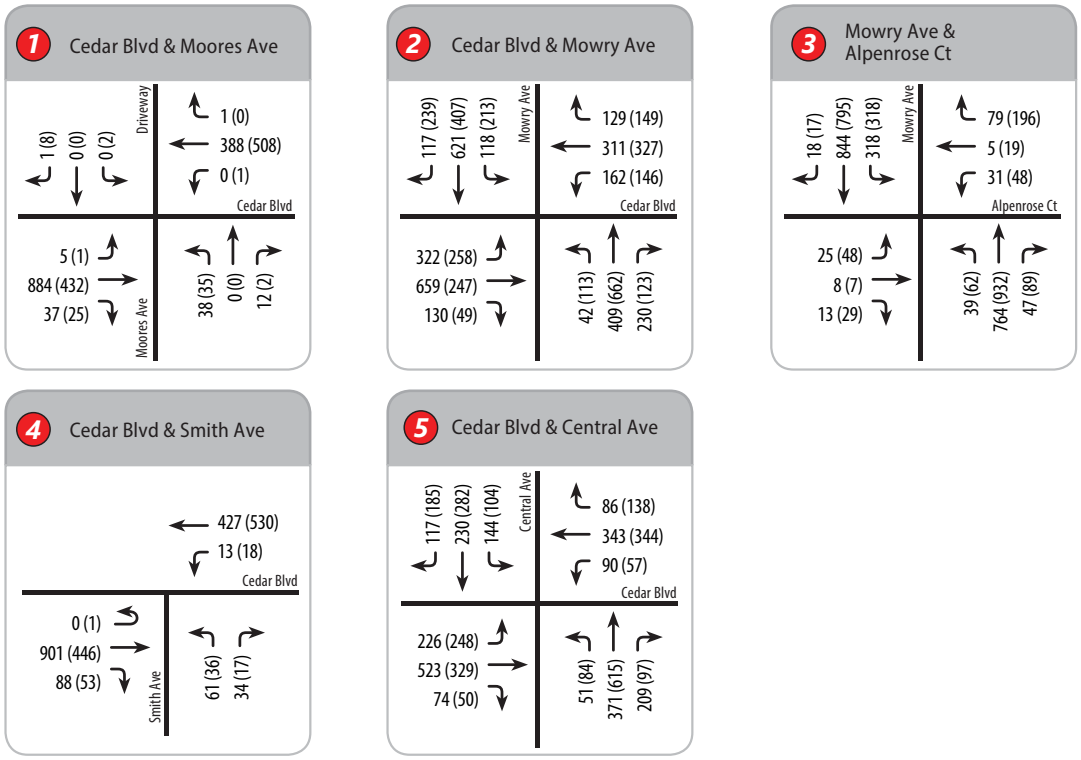


Figure 7: Existing Conditions Peak Hour Traffic Volumes



LEGEND

- Project Site
- Study Intersection
- XX AM Peak Hour Volumes
- (XX) PM Peak Hour Volumes

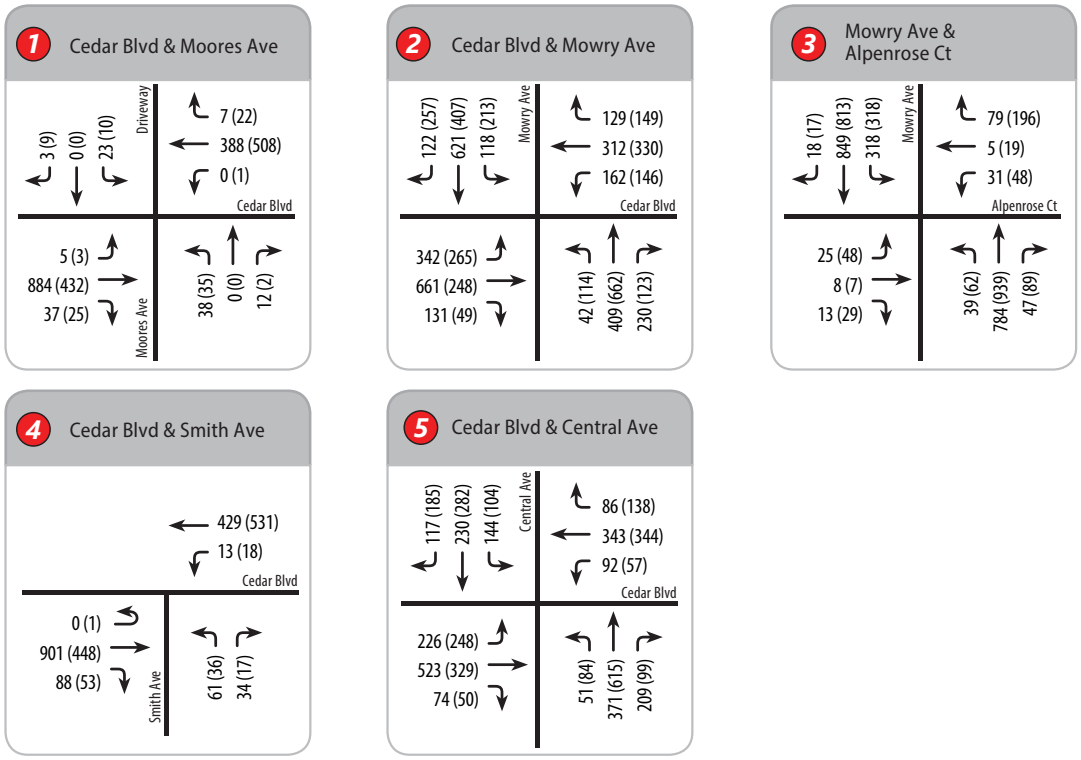
Figure 8: Trip Distribution & Assignment



LEGEND

- Project Site
- X Study Intersection
- XX(XX) Peak Hour Trips
- XX% Trip Distribution

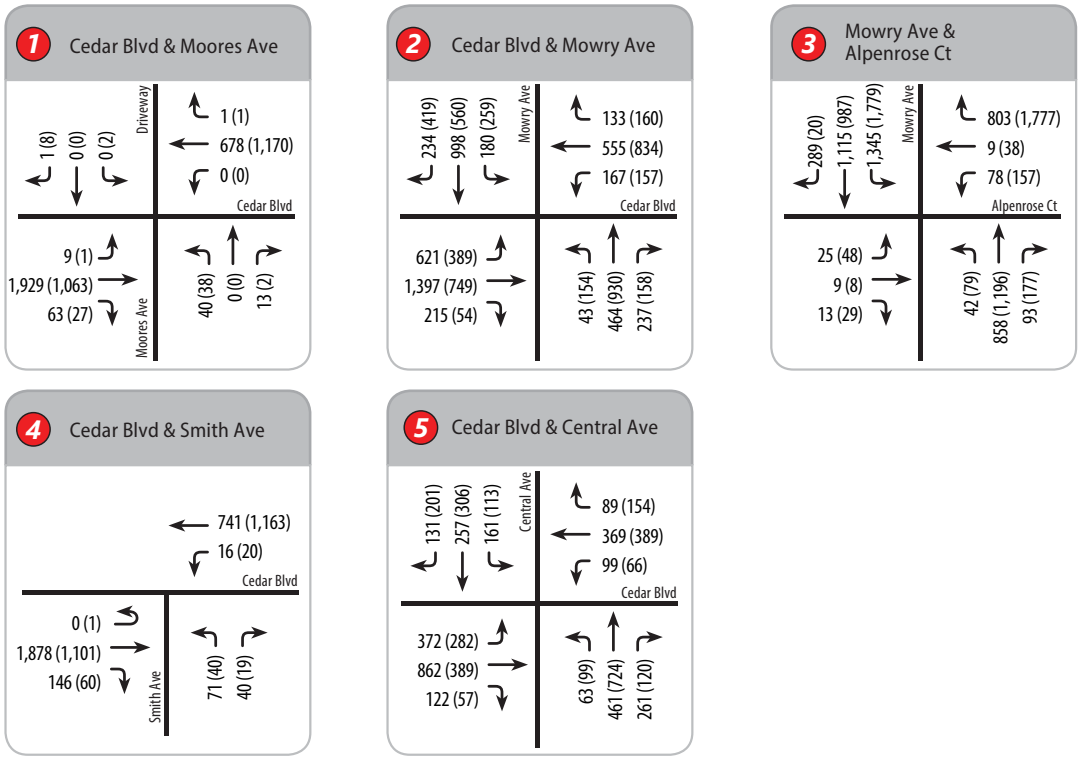
Figure 9: Existing plus Project Conditions Peak Hour Traffic Volumes



LEGEND

- Project Site
- X Study Intersection
- XX AM Peak Hour Volumes
- (XX) PM Peak Hour Volumes

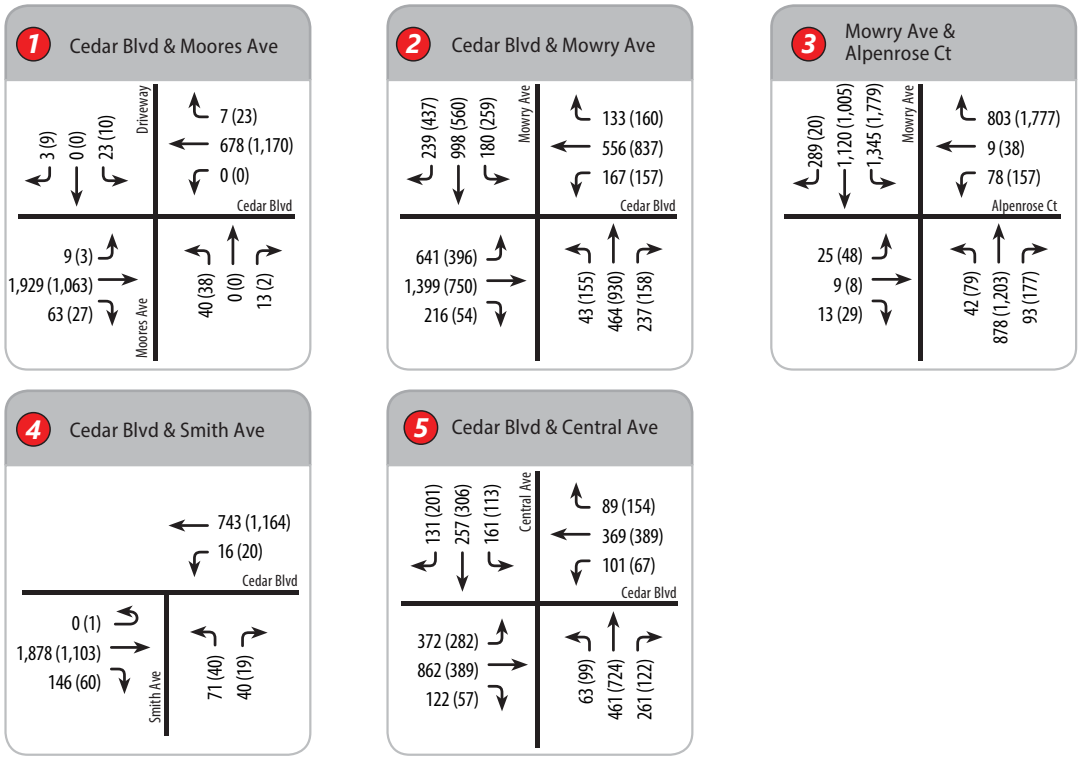
Figure 12: Cumulative Conditions Peak Hour Traffic Volumes



LEGEND

- Project Site
- X Study Intersection
- XX AM Peak Hour Volumes
- (XX) PM Peak Hour Volumes

Figure 13: Cumulative plus Project Conditions Peak Hour Traffic Volumes



LEGEND

- Project Site
- Study Intersection
- XX AM Peak Hour Volumes
- (XX) PM Peak Hour Volumes

Appendix E –Synchro RTR Example

(Not used in this analysis)

AM

HCM Signalized Intersection Capacity Analysis
4: Smith Ave & Cedar Blvd
05/12/2023

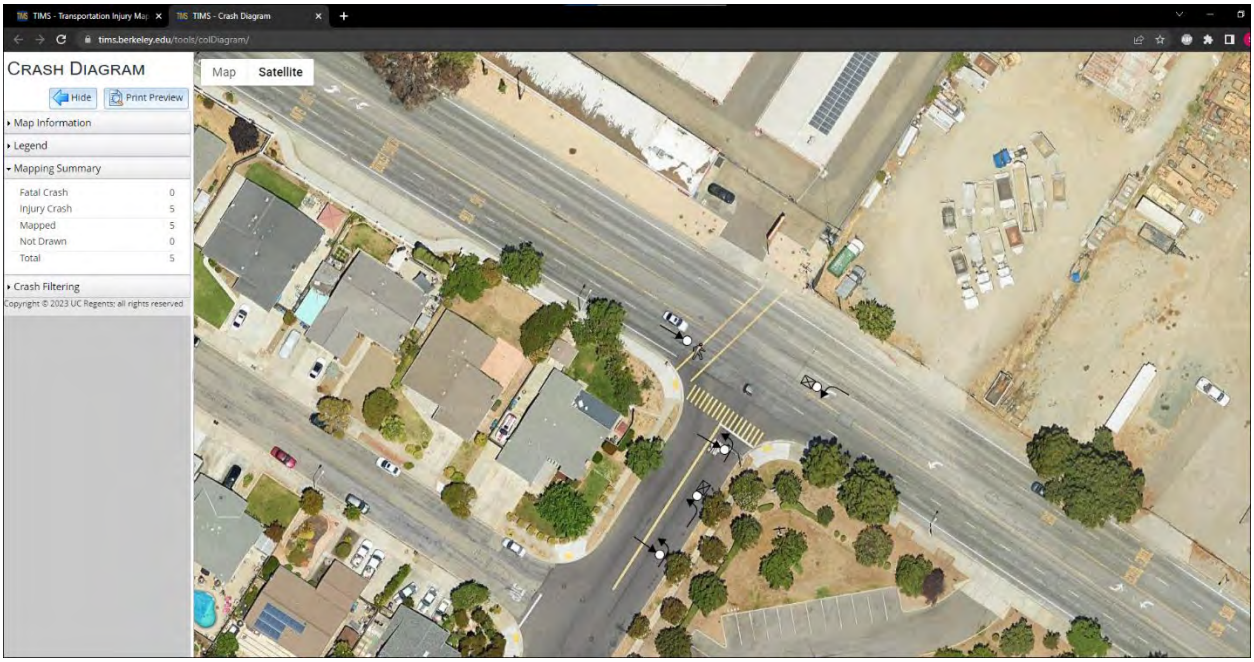
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	1878	146	16	743	71	40
Future Volume (vph)	1878	146	16	743	71	40
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.5		4.5	4.5	4.5	
Lane Util. Factor	0.95		1.00	0.95	1.00	
Frpb, ped/bikes	1.00		1.00	1.00	1.00	
Flpb, ped/bikes	1.00		1.00	1.00	1.00	
Frt	0.99		1.00	1.00	0.95	
Flt Protected	1.00		0.95	1.00	0.97	
Satd. Flow (prot)	3493		1770	3539	1717	
Flt Permitted	1.00		0.95	1.00	0.97	
Satd. Flow (perm)	3493		1770	3539	1717	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	1878	146	16	743	71	40
RTOR Reduction (vph)	6	0	0	0	22	0
Lane Group Flow (vph)	2018	0	16	743	89	0
Confl. Peds. (#/hr)		5	5		1	
Confl. Bikes (#/hr)		1				

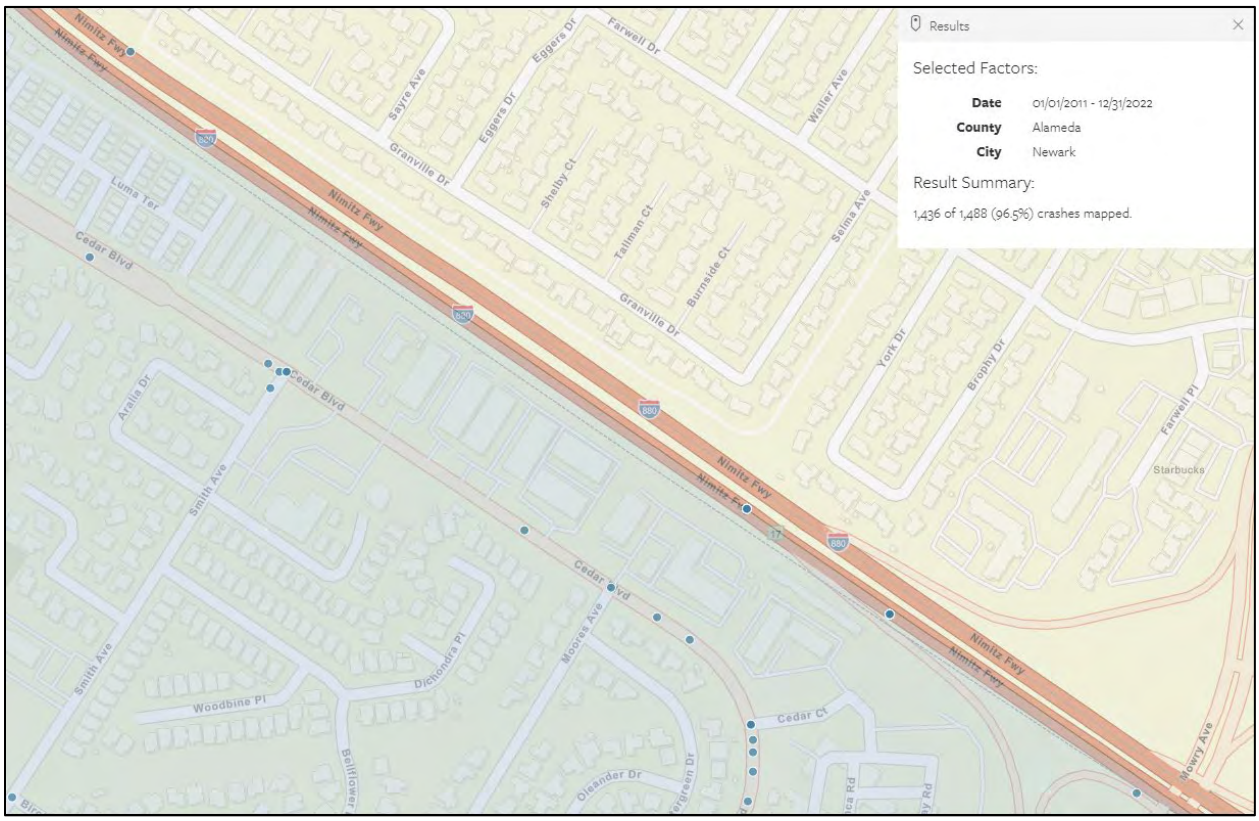
PM

HCM Signalized Intersection Capacity Analysis
4: Smith Ave & Cedar Blvd
05/12/2023

Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations							
Traffic Volume (vph)	1	1103	60	20	1164	40	19
Future Volume (vph)	1	1103	60	20	1164	40	19
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.5		4.5	4.5	4.5	
Lane Util. Factor		0.95		1.00	0.95	1.00	
Frpb, ped/bikes		1.00		1.00	1.00	1.00	
Flpb, ped/bikes		1.00		1.00	1.00	1.00	
Frt		0.99		1.00	1.00	0.96	
Flt Protected		1.00		0.95	1.00	0.97	
Satd. Flow (prot)		3507		1770	3539	1715	
Flt Permitted		0.95		0.95	1.00	0.97	
Satd. Flow (perm)		3348		1770	3539	1715	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	1	1103	60	20	1164	40	19
RTOR Reduction (vph)	0	4	0	0	0	15	0
Lane Group Flow (vph)	0	1160	0	20	1164	44	0
Confl. Peds. (#/hr)			2	2			
Confl. Bikes (#/hr)			2				2

Appendix F –Crash Data (2011-2022)


TIMS - Transportation Injury Map
TIMS - Crash Diagram
tims.berkeley.edu/tools/collDiagram/
CRASH DIAGRAM
Hide
Print Preview
Map Information
Legend
Mapping Summary
Fatal Crash 0
Injury Crash 5
Mapped 5
Not Drawn 0
Total 5
Crash Filtering
Copyright © 2023 UC Regents; all rights reserved
Map
Satellite


Results
Selected Factors:
Date 01/01/2011 - 12/31/2022
County Alameda
City Newark
Result Summary:
1,436 of 1,488 (96.5%) crashes mapped.
Nimitz Fwy
Cedar Blvd
Granville Dr
Eggers Dr
Farwell Dr
Sayre Ave
Waller Ave
Shelby Ct
Talisman Ct
Burnside Ct
Selma Ave
York Dr
Brophy Dr
Farwell Pl
Starbucks
Luna Ter
Aralia Dr
Smith Ave
Woodbine Pl
Dichondra Pl
Moores Ave
Cedar Ct
Oleander Dr
Evergreen Dr
Bellflower
Nowry Ave

TJKM VISION THAT MOVES YOUR COMMUNITY

TECHNICAL MEMORANDUM

Date: October 14, 2022

To: Cara Carlucci, LSA

Project No.: 006-113 Cedar TIS

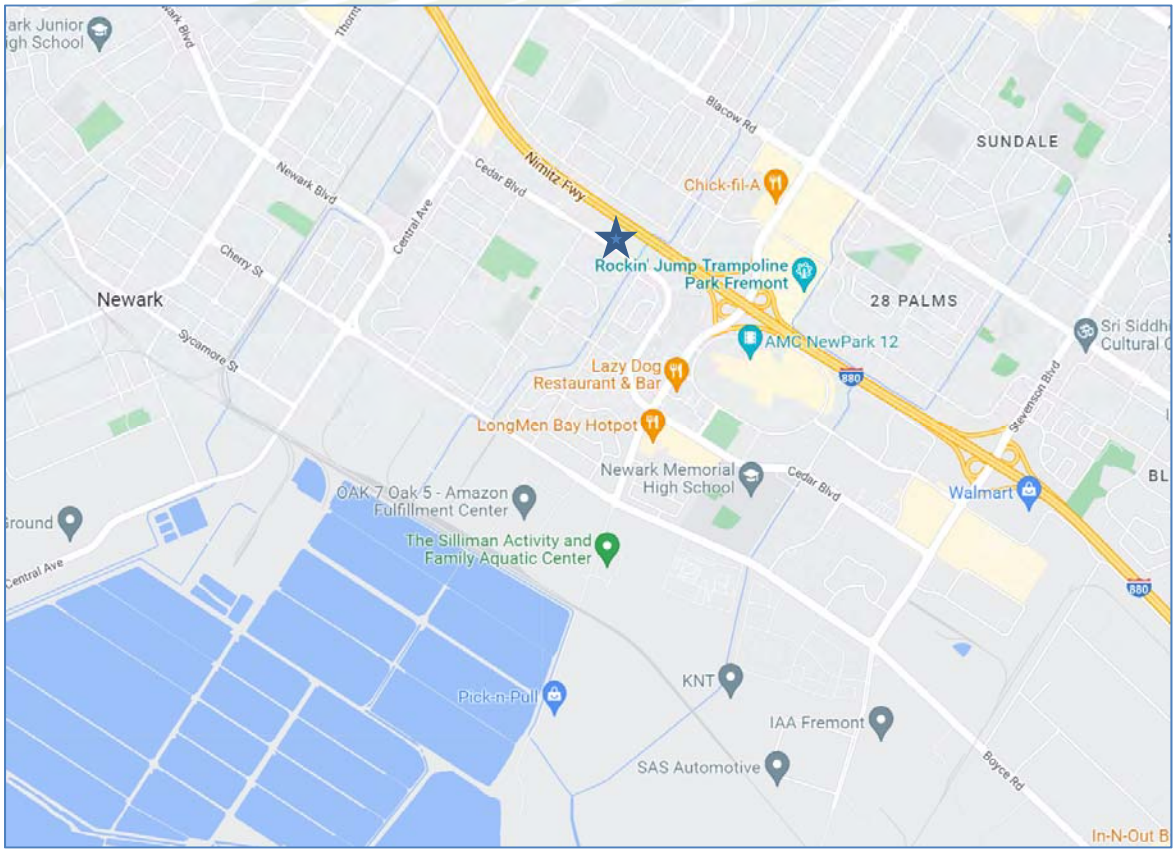
From: Arthur Chen & Chris Kinzel, TJKM

Jurisdiction: City of Newark

Subject: **Cedar Townhomes VMT Analysis Memo**

TJKM conducted a VMT (Vehicle Miles Traveled) analysis for the proposed Cedar Townhomes housing project located in the city of Newark. The project site is located near Interstate 880 and Mowry Avenue interchange north of Cedar Blvd. The project proposes infrastructure and roadway improvements in addition to constructing 80 townhome style units on a site previously occupied by commercial uses. Figure 1 shows the project location.

Figure 1 – Project Location Map



VEHICLE MILES TRAVELED (VMT)

This study evaluates project-related VMT as outlined in the Office of Planning and Research guidelines regarding SB 743. The methodology and implementation guidelines were adopted by the Alameda County Transportation Commission in July 2020. As of October 2022, the City of Newark has not adopted VMT procedures standards, so the ACTC standards were used.

The Governor's Office of Planning and Research (OPR) Technical Advisory (December 2018) provides guidance to analysts and local jurisdictions for implementing VMT as a metric for determining the transportation impact for land use projects. The OPR guidelines state that for analysis purposes, "VMT" refers to automobile VMT, specifically passenger vehicles and light trucks. Heavy truck traffic is typically excluded.

The ACTC guidelines include a screening process that describes five scenarios in which a project would be exempted from a VMT analysis requirement: 1) projects exempt from CEQA analysis, 2) small projects, 3) local serving projects, 4) projects in transit priority areas, and 5) projects in low VMT areas. It should be noted that even if a project satisfies one or more of the screening criteria, lead agencies may still require a VMT analysis if there is evidence that the project has characteristics that might lead to a significant amount of VMT. The project does not satisfy the requirements for screening criteria 1-4.

Under the ACTC VMT methodology, a low VMT area is defined as a city or unincorporated portion within one of the ACTC subregions where home-based VMT per resident is at least 15 percent below the countywide or where the commute VMT per employee is at least 15 percent below the regional average. A conservative reading of the methodology would indicate that when the citywide average VMT per resident is above the countywide average, projects cannot be screened out based on location, and a VMT analysis must be completed. In such cases, the appropriate significance thresholds based on countywide or regional average would be applied. The methodology also permits the applicable average VMT for the subject municipality or unincorporated ACTC subregion to be utilized instead of the countywide or regional average, if it is less stringent. As the existing residential VMT per capita in the City of San Ramon is higher than the Contra Costa countywide average, a VMT analysis is required for this project.

Under ACTC guidelines, a residential project would have a significant impact on VMT if it would generate residential VMT per capita higher than 85 percent of the South Alameda County average.

1. Screening Criteria and Methodology

ACTC guidance (OPR Technical Memo, December 2018) on VMT analysis for residential projects require a base year condition model run along with baseline plus project model run to extract VMT data for the TAZ that the project is located in. The project is located in TAZ #934 in the ACTC model; land uses stemming from this project was added to the land use input file and the ACTC model was ran to generate VMT metrics for this project.

2. VMT Forecasting and Analysis

The project consists of 80 townhome style multi-family housing units. Currently, TAZ #934 contains 279 households and 843 population. The 2020 Census average ratio of population to household for the City of Newark was used to calculate the total population for the project (3.34 people per household). Using this ratio, 80 housing units from this project will add 267 persons to the TAZ. **Table 1** shows the land use changes for the base year plus project run.

Table 1: Land Use Changes for Base Year

TAZ	Households	Population	Single Family Dwelling Units	Multi Family Dwelling Units
#934	+80	+270	+0	+80

A base year plus project model run was conducted with the land use changes added. The ACTC model results are summarized in **Table 2.**

Table 2: Home Based VMT Per Capita Comparison (South Alameda County Average)

TAZ	Base Year Average Daily VMT per Resident (per ACTC Model)	Regional Average (per ACTC Model)	15% Below Regional Average (per ACTC Model)	Base Year Plus Project Average Daily VMT per Resident (per ACTC Model run)
#934	23.24	22.60*	19.21	18.43

**Note: The regional average VMT used for VMT thresholds is for the City of Newark area*

The existing base year per capita VMT for TAZ #934 is 23.24. Coding the project into the TAZ results in a VMT per capita of 18.43**,** a decrease of 4.81. For residential projects, ACTC establishes a significance threshold of 15 percent below the subject municipality's average residential VMT, or below the countywide average VMT, whichever is less stringent. Alameda County has a higher VMT per capita than the Newark, so the average VMT per capita for the City was used as the VMT significance benchmark. Since 18.43 is lower than the 85% threshold of 19.21 for the City of Newark project would produce an **insignificant** impact on VMT.

TJKM will be happy to respond to questions or comments on this Technical Memorandum. ACTC Model outputs can be found in Appendix A.

Appendix A – ACTC Model VMT Outputs

ACTC Model Outputs

TAZ	Total Population	VMT Production	VMT per Capita
#934 - No Project	844	19,615	23.24
#934 - With Project	1,087	20,035	18.43



Waymark Townhomes Project

September 14, 2023
City Council Meeting
Carmelisa Lopez, Senior Planner

Requested Entitlements

The applicant and owner, Waymark Development, requests approval of the following entitlements for the proposed project:

1. Design Review for the design of the site, buildings, and associated improvements
2. Minor Use Permit to allow a building height over 35 feet and a sound wall over 6 feet tall
3. Vesting Tentative Map to create one common lot and 76 condominium units

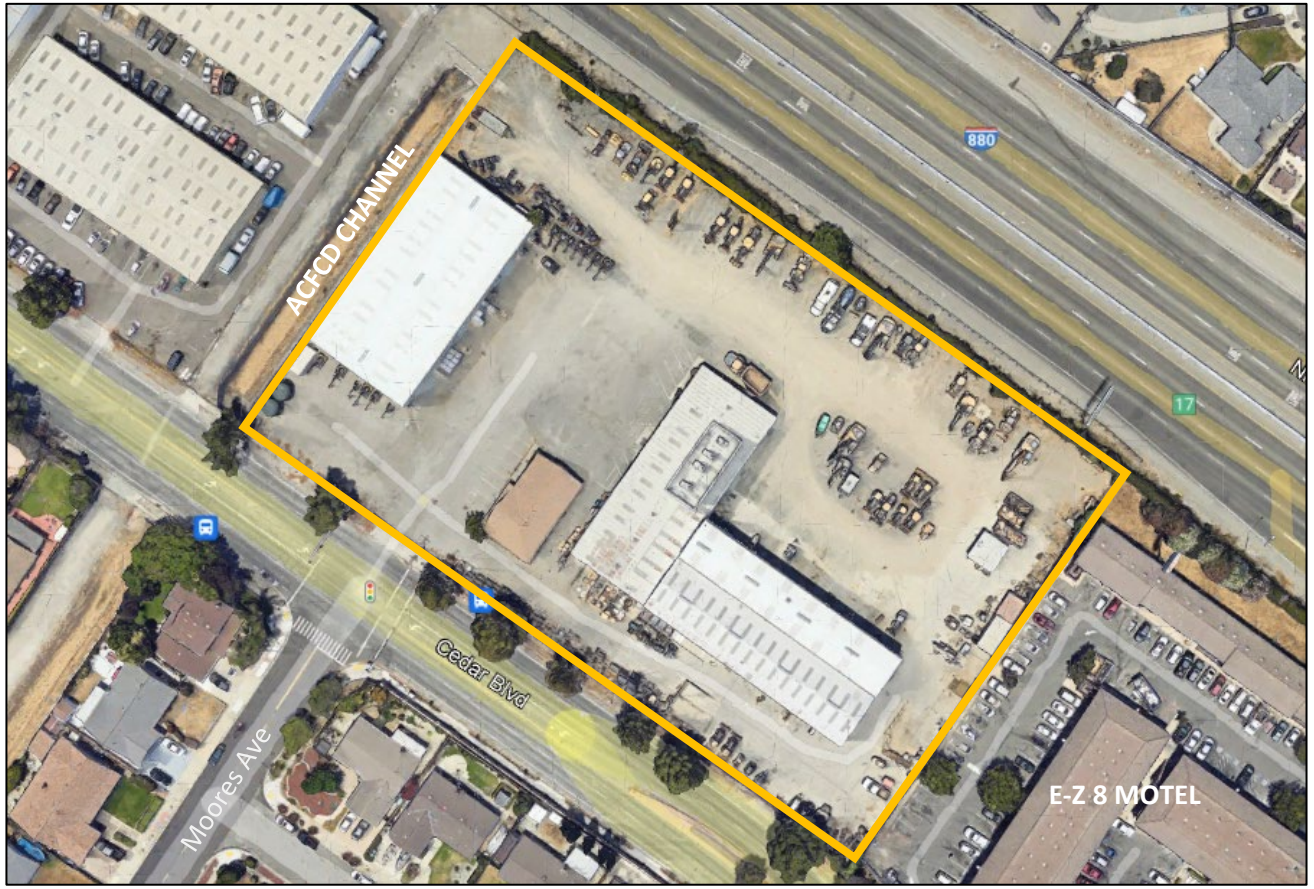
Site Information

- 3.72-acre site
- Bounded by a flood control channel, I-880, a motel, and Cedar Blvd
- Surrounded mostly by residential uses
- Robson Homes project recently entitled northwest of site



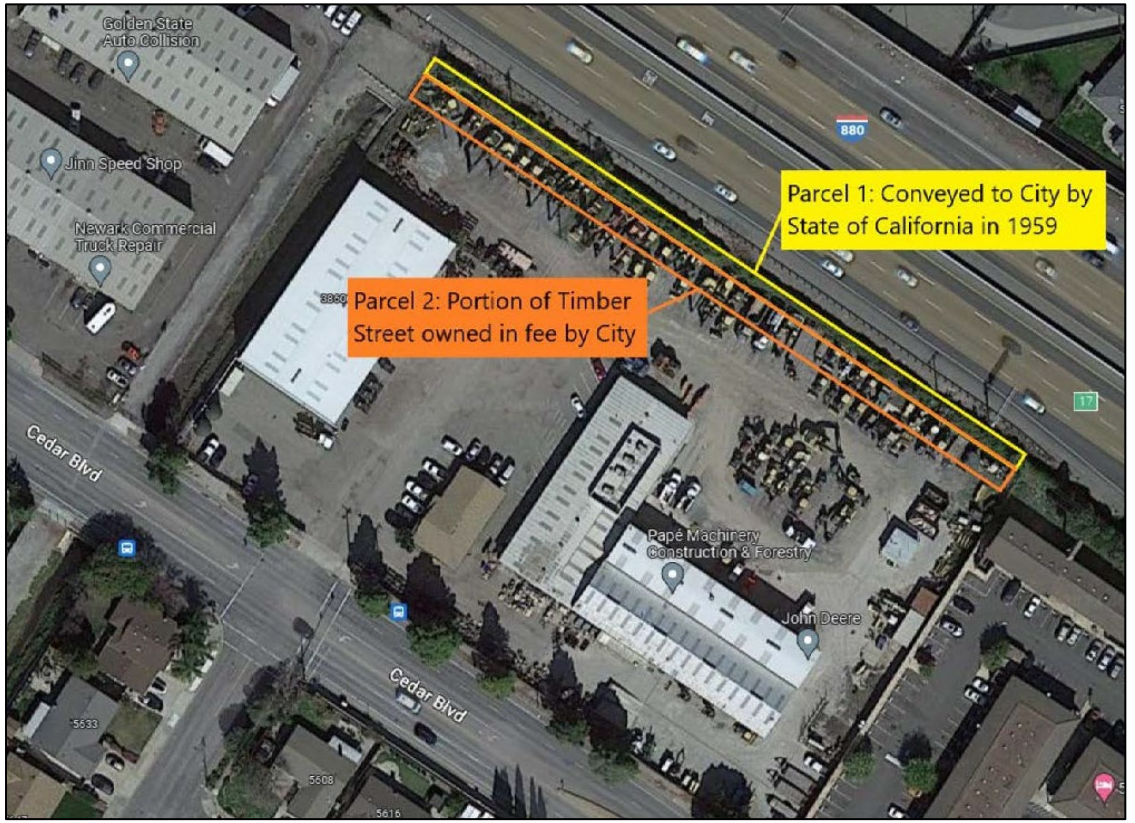
Site Information

- Site was most recently occupied by a commercial use (Pape Machinery)
- Contains three commercial buildings and paved areas for circulation, parking, and storage



Sale of City Property

- Site includes portions of excess City right-of-way and a street remnant of Timber Street
- On Feb. 23, 2023, the City Council approved the City Manager to execute a PSA to complete the sale of the parcels to the property owner
- PSA requires sale to be completed within 120 days after project approval



Project Proposal

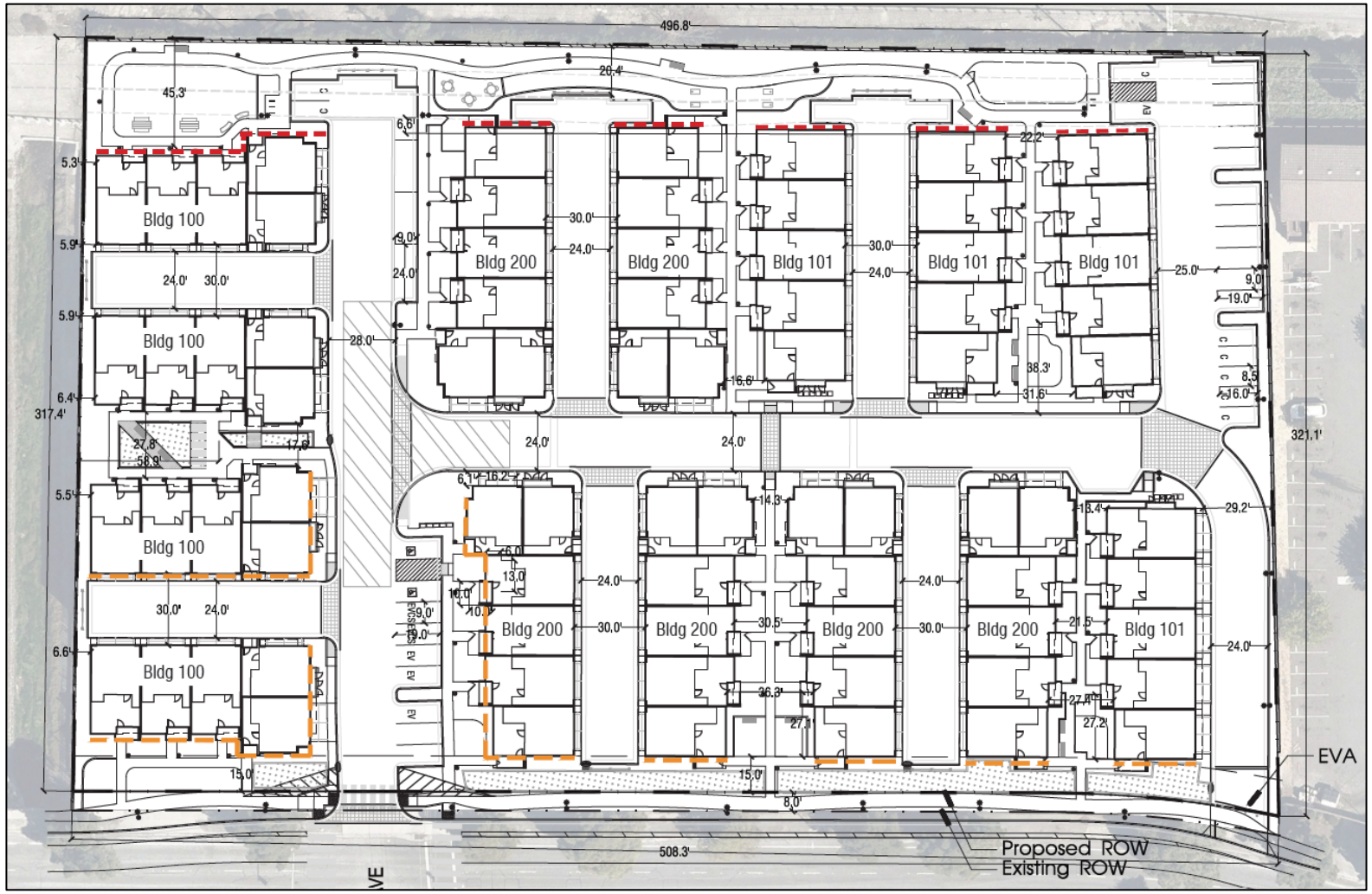
- The applicant proposes to construct 76 townhouses within 14 buildings
- Each building will contain 5-6 townhouses
- Proposed density of 20 units per net acre
- The two parcels and former City property (once sale is completed) will be merged to create one common lot and 76 condominium units



Site Plan

Enhanced street elevation

Enhanced Elevation at Third Floor



Proposed Residences

Floor Plans	3
Stories	3
Building Height	36’ to 37’
Habitable Floor Area	1,334 to 1,823 sq. ft.
Bedrooms	3 to 4
Bathrooms	2.5 to 3
Private Open Space	Decks and porches
Parking Spaces	2 within garage

Proposed Residences

- Three floor plans
- Buildings will have 5-6 units each
- Three color schemes
- Elevations facing main entrance to site, Cedar Blvd, and I-880 will be “enhanced”

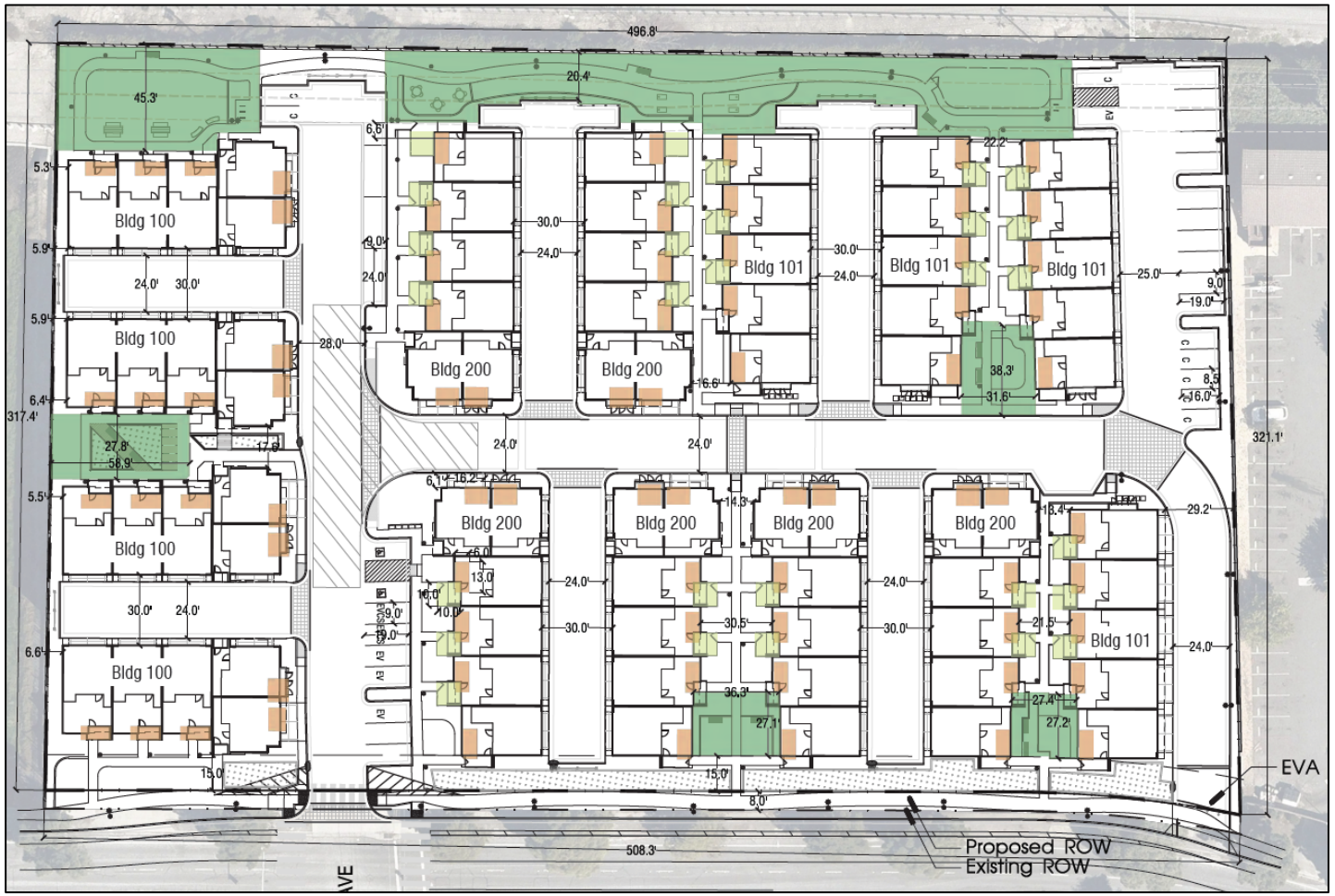






Open Space

- 22,803 sq. ft. total
- Private: Decks and patios within residence
- Common: Flexible green space, dog play area, courtyards with seating, boardwalks over bioretention areas



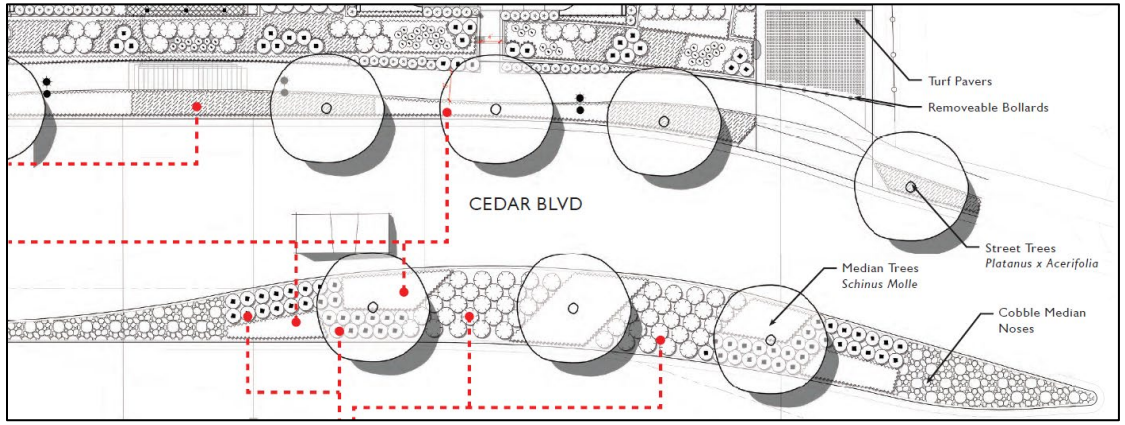
Landscaping

- Diverse landscape palette
- Along site perimeter, walkways, sidewalks, and open space areas
- “Enhanced” landscaping along Cedar Blvd
- Turf cell paving and removable bollards at EVA



Cedar Blvd Streetscape

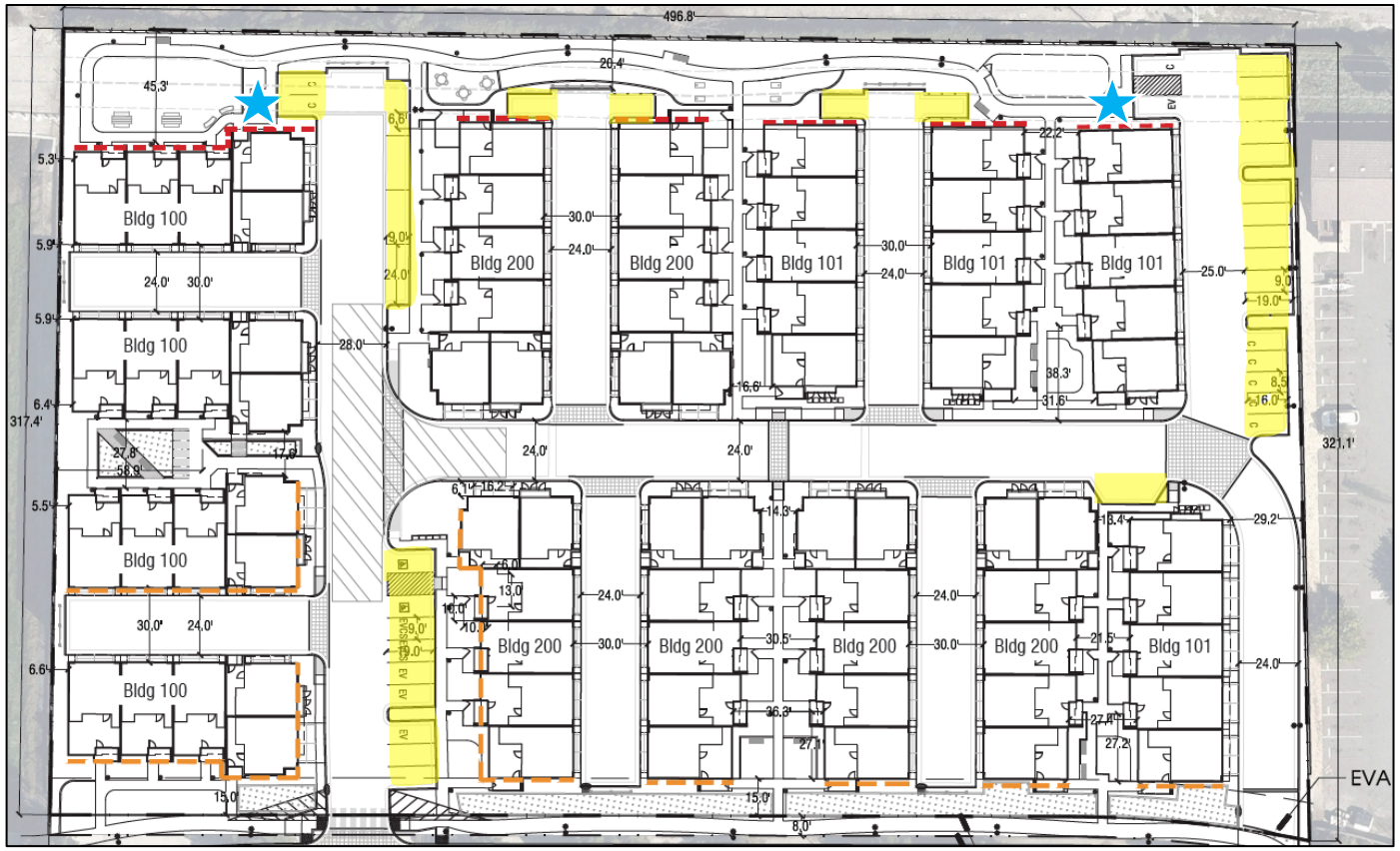
- Front entries of residences adjacent to Cedar Blvd will face Cedar Blvd
- Low brick-capped stucco walls to screen patio areas and alleys
- Street trees and a meandering sidewalk





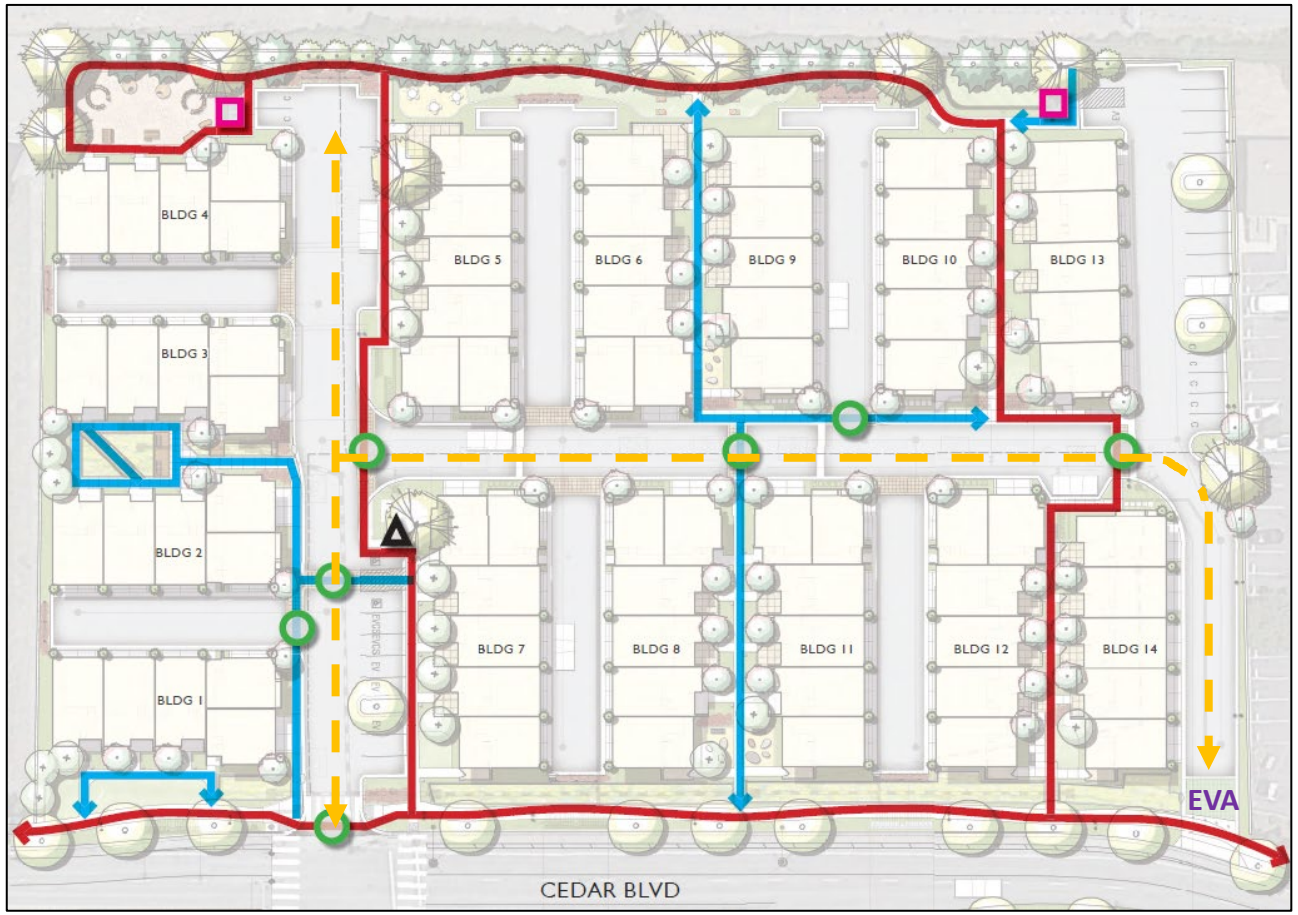
Parking

- 190 parking spaces proposed
  - Two spaces within each garage
  - 38 guest spaces on-street and within parking areas
- Bicycle storage area in each garage
- Bicycle racks at rear open space areas



Access & Circulation

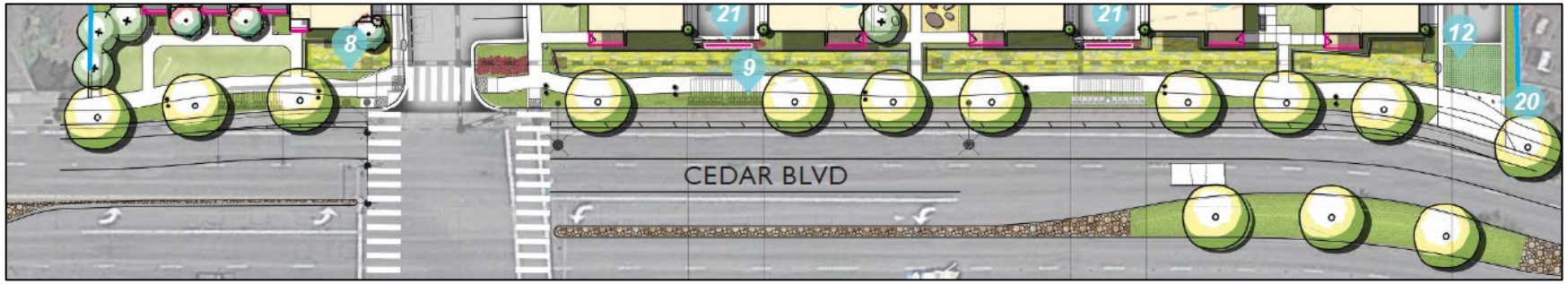
- Entrance at Cedar Blvd & Moores Ave
- EVA provided at southeast corner of site on Cedar Blvd
- Private road and alleys will lead directly to each garage
- Proposed sidewalks, walkways and enhanced crossings



Offsite Improvements

Several offsite improvements proposed such as:

1. Crosswalk restriping at Cedar Blvd and Moores Ave
2. Widening of Cedar Blvd along site frontage to accommodate two travel lanes, a bike lane and buffer, parkway strip, and meandering sidewalk
3. Extension of landscape median and new landscape median on Cedar Blvd
4. Traffic signal and crosswalk improvements at Cedar Blvd & Smith Ave intersection



Community Meeting

- On April 17, 2023, the Applicant held a community meeting at Pape Machinery located on the project site
- Notices sent to property owners within a 500-foot radius and interested parties
- Three community members attended and were generally supportive of project
- No written comments received

General Plan & Zoning Code

- Proposed density of 20 units per acre is permitted in the Medium Density Residential designation of the General Plan
- Townhouses are permitted in the RM Residential Medium Density zoning district
- Project consistent with all applicable General Plan policies and zoning standards



Requested Entitlements

1. Design Review for the design of the site, buildings, and associated improvements
2. Minor Use Permit to allow a building height over 35 feet and wall over 6 feet tall
3. Vesting Tentative Map to create one common lot and 76 condominium units

Design Review

- Building design is a blend of Spanish and Mediterranean styles
- Buildings are well articulated with a variety of colors, materials, and decorative elements
- Elevations facing main entrance to site, Cedar Blvd, and I-880 will be “enhanced”
- Landscaping and open spaces areas complement the residences and will enhance overall site appearance



Minor Use Permit for Building Height

- Applicant requests a maximum building height of 37 ft.
- MUP required for building heights over 35 ft. in RM zoning district
- Pitched tile roofs are necessary to achieve architectural style
- Parapet flat roofs are also necessary to screen roof-mounted equipment



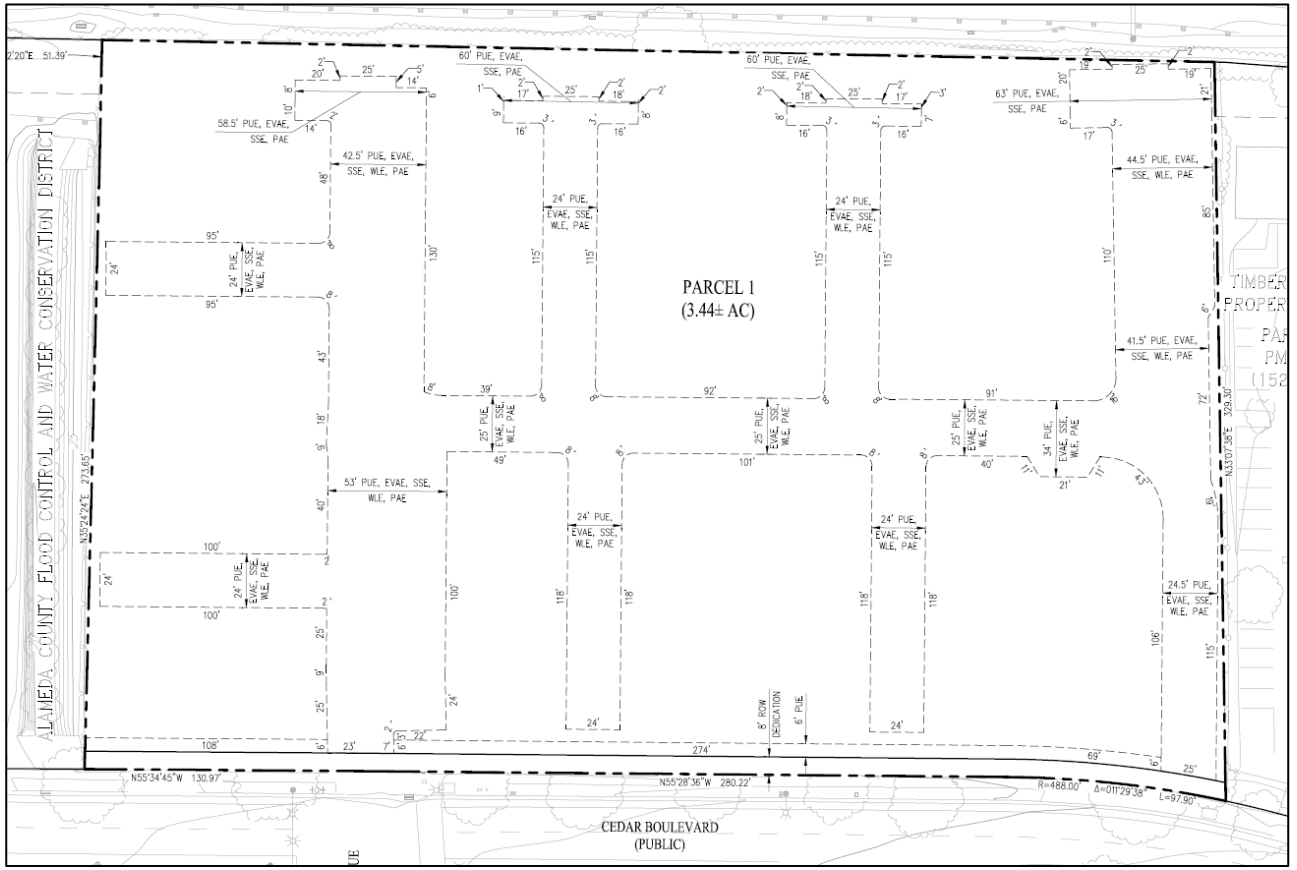
Minor Use Permit for Wall Height

- Applicant requests an up to 18’ tall sound wall along rear and side property lines
  - 18’ along rear property line
  - Steps down from 18’ to 10’ from rear to front of property
- Sound wall required to meet General Plan Policy EH-7.4 to reduce outdoor noise levels in residential areas
- Will reduce exterior noise levels to 65 dB



Vesting Tentative Map

- Applicant requests approval of Vesting Tentative Tract Map 8665 to create 1 common lot and 76 condominium units
- Includes various easements for access and utilities
- 8’ wide right-of-way dedication for Cedar Blvd



Environmental Review

- A CEQA analysis was prepared in accordance with CEQA Guidelines
- Determined the project is exempt from further environmental review pursuant to CEQA Guidelines Sections 15183 and 15168 and California Public Resources Code Section 21083.3
- The analysis demonstrated that the project is:
  - Within the development assumptions analyzed in 2013 General FEIR
  - Consistent with the General Plan
- Project must comply with all applicable mitigation measures in FEIR

Planning Commission Meeting

- The Planning Commission (PC) reviewed the project on July 25, 2023
- Comments received regarding the property, City's housing requirements, sound wall maintenance, and the impact of new development on traffic and pedestrian safety
- The PC and staff responded to the questions by providing info on the state housing requirements, the City's Housing Element, and the transportation analyses prepared for the project
- After consideration of the info presented and comments received, the PC voted 5-0 to recommend approval

Recommendation

Staff recommends that the City Council approve the Project by taking the following action:

Adopt a Resolution finding the project exempt from further environmental review pursuant to CEQA and approving a Design Review, Minor Use Permit, and Vesting Tentative Map for a 76-unit residential development located at 38600 Cedar Boulevard (APNs 92A-2585-12-1, 92A-2585-31).



38600 Cedar Boulevard

WAYMARK

Development Team

Waymark Development

Owner/Applicant

Local Industry Executives

30+ years' Development Experience

Built 5 projects in Newark

Resmark Companies

Owner/Investor

Real Estate Investor of public and private funds

Single Family/Multifamily land & homebuilding

90,000+homes/lots built with top builders;

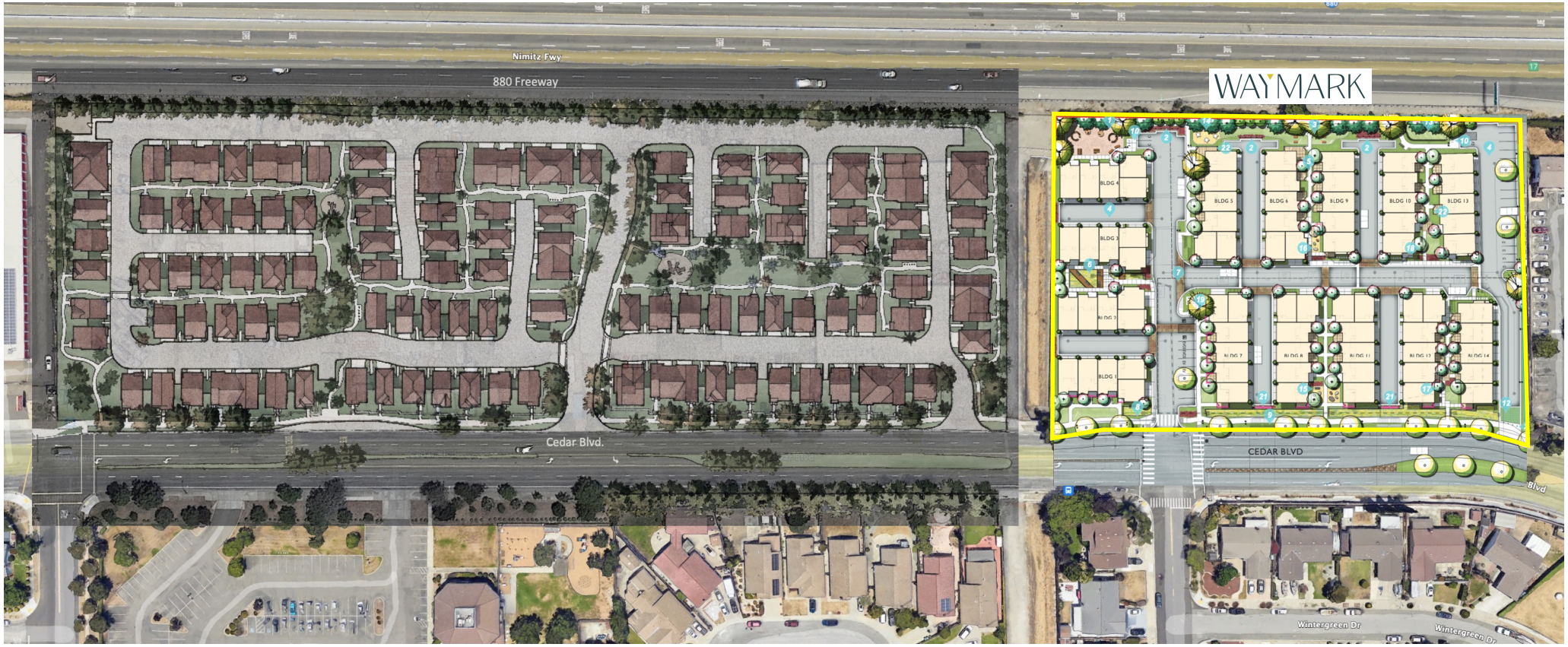
Site Aerial In Context



Development Integration



Development Integration



Conceptual Cedar Boulevard Street Scene



The Development In-Brief:

- 3.72 Acre Site
- 76 New Residences
- 3 Unique Floorplan Types
- All 3- & 4-Bedroom Homes
- Sized from 1,334 to 1,823 sq. ft.
- Creative neighborhood gathering spaces



Left



Front



Note: Artist's Conception; Colors, Materials and Application May Vary.

Right



Color Scheme #3

Rear



PLAN LEGEND

1. Adventure Play Area
2. Wood Rail Fence
3. Linear Flexible Green
4. Permeable Paving
5. Asphalt Paving
6. Bio-Retention with Boardwalks
7. Enhanced Paving
8. Enhanced Planting at Entry
9. Cedar Blvd. Frontage Improvements
10. Bike Parking
11. Noise Barrier
    - 18'
    - 16'
    - 14'
    - 12'
    - 10'
    - 8'
12. Turf Cell Paving
13. Fenced Dog Area
14. Picnic Area
15. Main Zen Courtyard w/ seating stones
16. Minor Zen Courtyard w/ seating stones
17. Garden Courtyard w/benches
18. Village Green w/benches
19. Mailboxes
20. Removable Bollards
21. Stucco Low Wall *(See Arch Plans)*
22. Patio Fence

Site Characterization Images



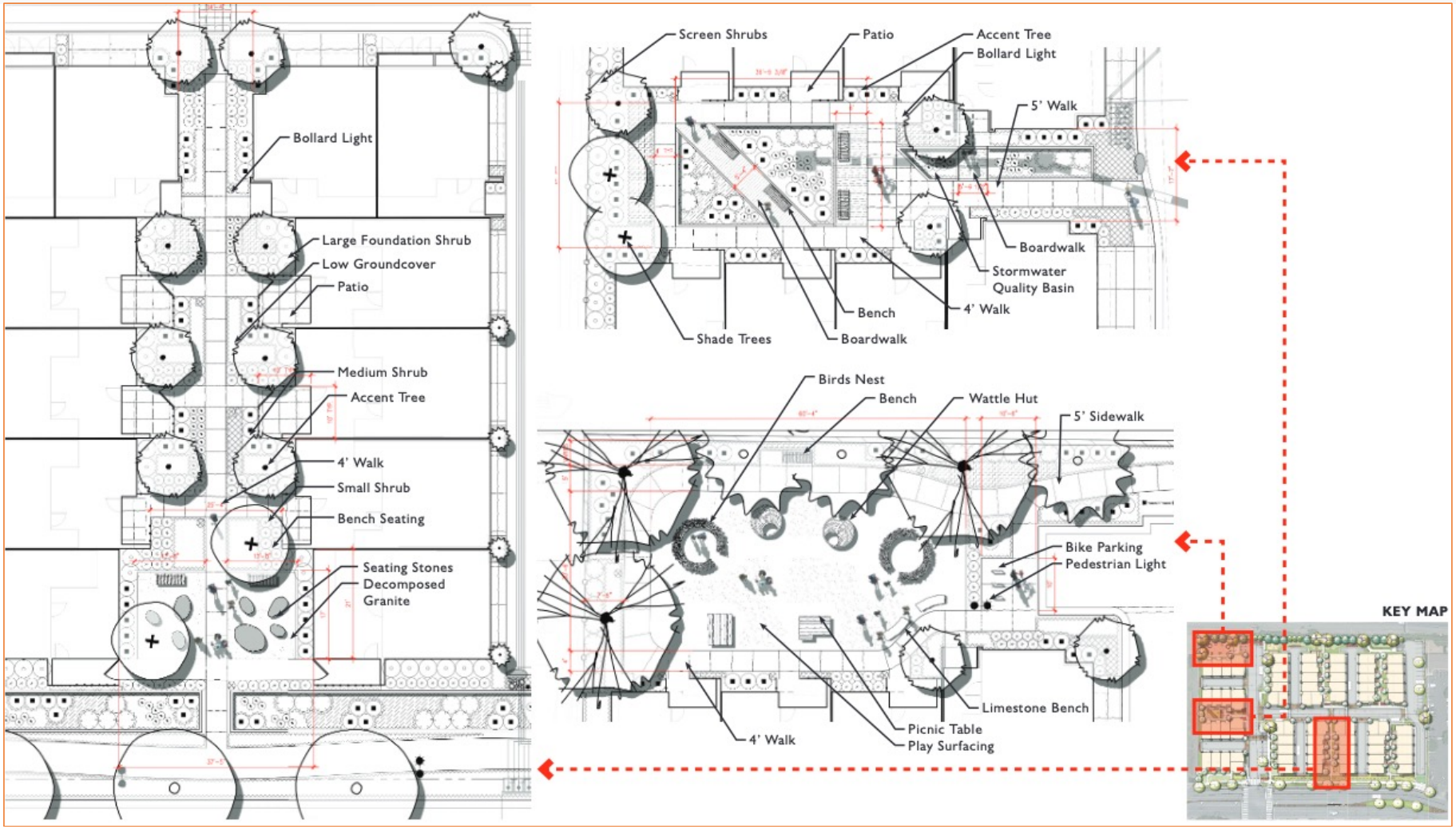




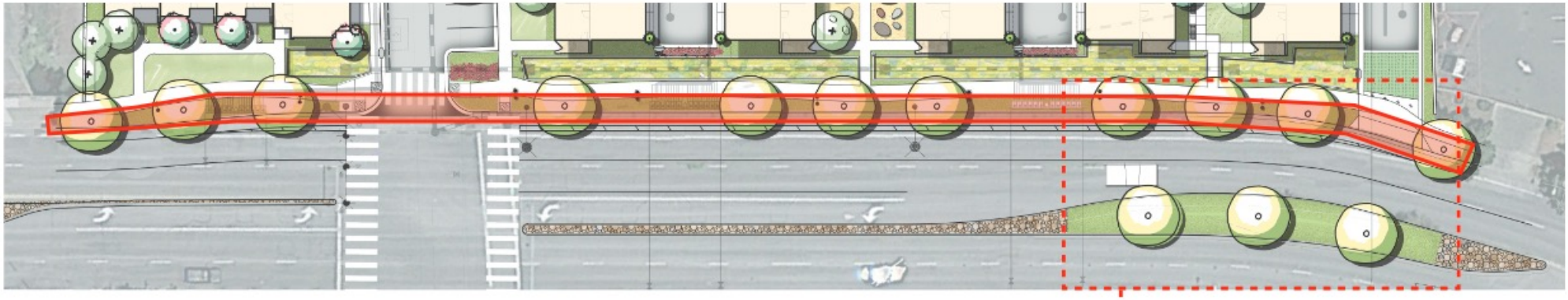





Sample Interior Experience & Gathering Nodes



Cedar Boulevard Improvements



PLANT PALETTE

SEE SHEET L-8



Platinus acerifolia 'Columbia' | London Plane Tree



Myoporum parvifolium | Myoporum 'Pink'



Teucrium ackermannii | Silver Germander

KEY MAP







Questions?

38600 Cedar Boulevard

WAYMARK

STAFF REPORT

Item F. 1.

DATE	09/14/2023
TO	Honorable Mayor and City Council Members
FROM	Nicholas Cuevas, Recreation and Community Services Manager
SUBJECT	Presentation of programs and services delivered by the City of Newark's Clark W. Redeker Newark Senior Center and adopt a resolution approving the revised guidelines and procedures for the Senior Citizen Standing Advisory Committee.

SUMMARY AND RECOMMENDATION

Staff recommends that the City Council receive the presentation of programs and services delivered by the City of Newark's Clark W. Redeker Newark Senior Center and adopt a resolution approving changes to the Senior Citizen Standing Advisory Committee name and handbook.

BACKGROUND

The Senior Citizen Standing Advisory Committee ("Committee") researches senior issues within the City of Newark and identifies those needs that require assistance. The Committee makes recommendations to the City Council and provides information to Newark's senior citizens. It is not a decision-making body. The Committee meets at 10:00 a.m. on a quarterly basis on the third Thursday at the Clark W. Redeker Newark Senior Center located at 7401 Enterprise Drive in Newark.

The Senior Citizen Standing Advisory Committee Handbook ("Handbook") outlines the role of the committee and its members, explains City government and transparency, explains the logistics of its meetings, and describes the application and selection process for its members. The Handbook is intended to be a training resource for new appointees. The Handbook was last revised in May 2020, and needs to be updated. A draft has been prepared and was circulated to existing committee members for feedback and no comments were submitted to City staff.

DISCUSSION/ANALYSIS

Staff thoroughly reviewed the Handbook and drafted amendments to provide a clearer understanding of the Committee's role within the City of Newark and better outline the responsibilities and expectations of Committee Members.

Apart from making general formatting adjustments, the following sections were introduced or modified within the Handbook:

Name Change:

- The Committee's name is recommended to be modified from "Senior Citizen Standing Advisory Committee" to "Senior Advisory Committee." This adjustment aligns our Committee title with current practices and eliminates any potential misconception that U.S. citizenship is a requirement for committee membership.

Committee Membership:

- **Selection Process:** The Committee shall be made up of no less than five (5) committee members and no more than nine (9) Committee members, excluding the City Council representative.
  - Presently, the Committee comprises no less than eight (8) Committee Members and no more than twelve (12) Committee members, plus a City Council Representative.
    - The Committee has encountered difficulties in reaching a formal quorum during its recent meetings. This shift in Committee Members is expected to facilitate the attainment of a quorum more effortlessly and help prevent any delays in conducting official business.

Role of Committee Members:

- **Active Participation:** The Committee members are encouraged to be active participants at the Clark W. Redeker Newark Senior Center and act as community ambassadors to support the needs of Newark seniors.
  - This change encourages Committee Members to actively participate in Clark W. Redeker Newark Senior Center to understand better the needs of their peers and seniors in the community and by providing valuable feedback to program staff.
  - Staff encourages all Committee members to participate in the City of Fremont's Family and Aging Services Community Ambassador Program for Seniors. The CAPS program will provide committee members with the necessary tools to help Newark seniors connect to local resources.
- **Attendance Requirements:**
  - Language has been included to clarify attendance requirements and the process for reporting absences to the Committee Chairperson or City Staff. The existing handbook lacks specific information regarding the permissible number of absences from missed meetings.
  - Staff recommends the following new language:
    - A Committee member who is unable to attend a meeting is responsible for notifying the Committee Chairperson or City staff assigned to the committee. A Committee Member that does not provide notification of absence from three consecutive meetings will be subject to removal from the committee, at the Chairperson’s discretion.

Committee Meetings:

- **Meeting Frequency:** The Committee meets on a quarterly basis compared to the previous monthly format, or as otherwise decided by the Chairperson, at the Clark W. Redeker Newark Senior Center. In compliance with state open-meeting laws (Brown Act), the meetings of these bodies are open to the public.
- **Noticing and Venue:** Updated locations are the Clark W. Redeker Newark Senior Center, David W. Smith City Hall, and on the city website Newark.org at least 72 hours prior to the scheduled regular meeting pursuant to Government Code

Section 54954.2.

During the Council meeting, staff will provide an overview of services and programming offered at the Clark W. Redeker Newark Senior Center and will be able to answer any questions from the Council. Following the presentation, staff will recommend that the Council adopt the attached resolution approving the name change of the Committee and updated Handbook.

FISCAL IMPACT

There is no fiscal impact associated with this action.

REVIEW AND APPROVAL

Prepared by - Nicholas Cuevas, Recreation & Community Services Manager
Reviewed by - Lenka Hovorka, Assistant City Manager
Reviewed by - Krysten Lee, Finance Director
Reviewed by - Kristopher J. Kokotaylo, City Attorney
Approved by - David J. Benoun, City Manager

Attachments

Senior Advisory Handbook_Redline

Senior Advisory Committee Handbook _Proposed Draft

Senior Center Services Overview PowerPoint

Senior Advisory Committee Resolution

~~SENIOR CITIZEN~~

~~STANDING~~

~~ADVISORY~~

~~COMMITTEE~~

~~HANDBOOK~~



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~~GUIDELINES AND PROCEDURES~~

~~FOR CITIZEN ADVISORY COMMITTEES~~

~~(Revised 5/28/2020; X/X/2023)~~

Senior Advisory Committee Handbook

TABLE OF CONTENTS

~~I. ASSIGNMENT~~

~~A. Process~~

~~B. Product~~

~~C. Deadline~~

~~II.~~ INTRODUCTION ~~3~~

~~A. Use of Citizen Advisory Committees~~

~~B. Appointment of Committees~~

~~C. Term of Office~~

~~III. ASSIGNMENT TO THE~~ City Government

Open Government

COMMITTEE MEMBERSHIP 3

~~IV. MEETINGS~~

~~A. Meeting Schedule~~

~~B. Appointment of~~ Application Process

Selection Process

Legal Compliance

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ROLE OF COMMITTEE MEMBERS 4

Chairperson ~~and Vice Chairperson~~

~~C. Procedural Rules~~

~~D. Committee Records~~

~~V. ATTENDANCE~~

~~A. Attendance Expectations~~

~~B. Termination from Committee Membership~~

~~VI. CITY STAFF ASSISTANCE~~

~~VII. COMMITTEE REPORT~~

~~VIII. BROWN ACT COMPLIANCE~~

~~A. Policy~~

~~B. Meetings Generally~~

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~~SENIOR CITIZEN STANDING~~

~~ADVISORY~~ Active Participation

Staff Representatives

COMMITTEE MEETINGS 5

~~I. PURPOSE~~

~~The Senior Citizen Standing Advisory Committee will research senior citizen needs in the City of Newark and identify those needs which require assistance. The recommendations should be limited to areas that are not provided for or are not being met by other Federal, State, County, or private agency programs available to Newark residents. (2/94)~~

~~A. Procedures~~

~~The City Council shall appoint a Council Member to serve as the City Council representative and Chairperson to the Committee.~~ Noticing and Venue

Courtesy and Decorum

Public Records

Actions Taken by Committee ~~members will represent Newark senior citizens.~~

~~In developing recommendations to the City Council, a vote of the Committee may be required. In the event the Chairperson considers a vote of the Committee is necessary, Committee members will each have one vote. Any recommendations will be submitted to the City Council as representative of the Committee as a whole. The Council Member/Chairperson is not a voting member.~~

~~Meetings will be held quarterly at the Clark W.~~

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~~**Redeker Newark Senior Center.**~~ ~~If a member is unable to attend a meeting, they should advise the Chairperson or City staff assigned to the Committee. (2/94)~~

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~~*A. Role of Committee*~~

~~The Committee will recommend policies for the City Council; members will be expected to provide any information which they feel is pertinent to the well-being of Newark senior citizens.~~

~~**The Committee is not a decision-making body.**~~ ~~The final decisions on meeting the needs of senior citizens in the City of Newark are the responsibility of the City Council.~~

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INTRODUCTION

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~~Advisory Committees play an important role in City government by assisting and advising the City Council in formulating policy. The specific role and procedures will vary for different committees. Committees are formed by City Council resolution to address specific projects, populations or areas of concern.~~

~~This handbook describes the guidelines and procedures to be observed in the conduct of the Senior Citizen Standing Advisory Committee of the City of Newark.~~

~~*B. Appointment of Committees*~~

~~The City Council appoints citizens to serve on committees. Any person interested in serving on a City advisory body~~ **City Government**

The City of Newark operates under a Council-Manager form of government. Elected by the residents, the City Council is the City's official legislative and policy-making body. The City Council is ultimately responsible to the residents for the manner in which City business is conducted.

The City Council is comprised of a Mayor elected at-large to a two-year term and four Council Members elected at-large to four-year terms on a staggered basis.

The City Council appoints a City Manager to be the chief administrator. The City Manager is responsible for administrative matters, such as the preparation of the budget, direction and evaluation of City programs and services, and enforcement of all laws and ordinances. The City Manager also establishes administrative policies and coordinates department activities.

The City Council appoints members of the Planning Commission and various advisory committees and contracts for the City Manager and City Attorney. The City Attorney is legal advisor to the City Council, City Manager, and all City departments. It is the responsibility of the City Attorney to ensure that all ordinances, resolutions, and contracts approved by the City Council are in accordance with applicable laws.

Open Government

The City of Newark is committed to creating an open Government. We work together to ensure the public trust and establish a system of transparency, public participation, and collaboration. Openness will strengthen our community and promote efficiency and effectiveness in the City of Newark.

COMMITTEE MEMBERSHIP

Application Process

When a vacancy occurs, it is publicized and any person, 55 years or older, residing within the City of Newark, who is interested in serving on the Senior Advisory Committee is invited to complete an application ~~form~~ and submit it to the City Clerk~~,~~ by the established deadline. The applications are then forwarded to the Mayor who makes the appointment with City Council confirmation. Applications remain on file for one year. ~~When a committee is formed or vacancy occurs, it is publicized and applications of persons interested in serving on a particular body are forwarded to the City Council. The City Council makes the appointment. Applicants are required to reside within the City. (2/94, 5/2020)~~

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~~The Senior Citizen Standing Advisory~~**Selection Process**

The Committee shall be made up of no less than ~~eight (8~~five (5) Committee members and no more than ~~twelve (12~~nine (9) Committee members ~~plus a~~, excluding the City Council representative. ~~Committee members must be 55 years of age or older. (2/94, 1/2011)~~

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~~C. Term of Office~~

The term of office of Committee members shall be for two years~~. (2/94, 3/98, 1/2011)~~

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~~III. ASSIGNMENT TO THE COMMITTEE~~

~~The City Council will make a formal written assignment to the Committee. The assignment will include the process, the end product(s), and a proposed time deadline for completing the assignment. The City Council~~

will further clarify the assignment and extend time deadlines or for the unexpired term if requested by the Committee. This assignment and the deadline are set forth in the Assignment at the front of this handbook. Any change or expansion of the assignment or deadline will occur only with the approval of the City Council. (2/94)

IV. MEETINGS

A. Meeting Schedule

The committee needs to establish its regular meeting schedule at the first meeting. Attendance offilling an unexpected vacancy. Committee members is critical to the effective completion of the Assignment.

Committees meet on a regular basis, usually once or twice a month. City Council policy requires that meetings be heldcan request reappointment at the City Administration Building or at other City facilities. In compliance with state open meetings laws (Brown Act), the meetings of these bodies are open to the public. A member who is unable to attend a meeting is responsible for notifying the Committeeend of their terms. Once a vacancy occurs, the Chairperson or City staff assignedmay choose to assistreduce the committee at the earliest possible time. Attendance atmaximum number of Committee meetings is critical; thus, members may be removed for failure to meet attendance requirements. (See Attendance)

B. Appointment of Chairperson and Vice Chairperson

Where the assignment requires, the City Council may name a Chairperson and Vice Chairperson or permit election of these officers by the Committee. Normally, if a City Council Member sits on a Committee, the Council Member will chair the Committee. The Chairperson and Vice Chairperson will serve in that capacity for the duration of the Committee. A Committee member may qualify to be elected as Vice Chairperson only after he/she has served on the Committee six months or longer. (2/94)

C. Procedural Rules

The Chairperson shall oversee the Committee's performance. The Chairperson will be directly responsible to the City Council.

The Chairperson shall also be responsible for:

- Calling meetings, preparing agendas, and presiding at same;

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- ~~Providing ample opportunity for members to express themselves by engendering an atmosphere conducive to frank and open discussions;~~

- ~~Keeping Committee members well informed of their mandated purpose and on target regarding time requirements;~~

- ~~Attending City Council and Planning Commission meetings on request to report progress and coordinate efforts with other committees; and~~

- ~~Setting deadlines for work to be completed and checking from time to time with members who have been assigned work to see that work is progressing toward completion.~~

~~The Vice Chairperson of the Committee shall act in the absence of the Chairperson~~ and ~~generally conduct meetings and perform functions as listed herein. In the absence of both Chairperson and Vice Chairperson, a City staff person will conduct the meeting. (2/94)~~

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~~A majority of the total appointed Committee membership shall constitute a quorum. In the event the assignment requires a vote, a quorum is necessary to vote on any action. A simple democratic majority vote of those voting shall decide a question before the Committee. City staff will~~therefore, not ~~vote on Committee recommendations. The Committee shall strive to reach a consensus of the Committee's entire membership rather than a bare majority of the quorum present when making a recommendation to the City Council or Planning Commission. (1/2011)~~fill the vacancy.

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~~*D. Committee Records*~~

~~Committee agendas, minutes, and other necessary records will be maintained by the City staff assigned to assist the Committee.~~

~~V. ATTENDANCE~~

~~*A. Attendance Expectations*~~

~~Attendance of Committee members is essential for adequate consideration of the material before the Committee.~~ **Legal Compliance**

~~Reading minutes and preparatory material cannot replace participation in Committee meetings. Committee members must commit themselves to meeting attendance. If during the Committee assignment circumstances arise which make attendance difficult, the Committee member should~~

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resign from the Committee. (If a member resigns early, his/her concern about attendance will be respected in future applications for Committee assignments.)

Committee members are asked to contact the Committee Chairperson or City staff assigned to assist the Committee before the meeting if they must miss a meeting.

B. Termination from Committee Membership

If a Committee member misses two consecutive meetings or three meetings within a six month period, he/she may be dropped from Committee membership. (10/2010)

VI. CITY STAFF ASSISTANCE

The Committee will have available such assistance of City staff as may be required to perform its assignment. The staff assignments and administrative procedures will be under the general direction and supervision of the City Manager.

VII. COMMITTEE REPORT

When the Assignment requires a report, this report should reflect a consensus of the Committee. A consensus means willingness to go along with the recommendation although it does not meet all of the members' desires. If a minority of the Committee remains strenuously opposed to the Committee recommendation, they may present a minority report on the recommendation. City staff may also submit an independent report.

~~VIII. BROWN ACT COMPLIANCE~~

~~*A. Policy*~~

It is the policy of the Brown Act that public boards, commissions, committees, task forces, and other multi-member bodies created by local agencies in this State exist to aid in the conduct of the people's business. It is the intent of the law that their actions be taken openly and that deliberations be conducted openly.

The agenda will bear a brief general description of each item of business to be transacted or discussed at the meeting. The description will be of sufficient detail to inform the public of the general nature of the subject matter of the item so that the public may seek further information on items of interest. The description will focus on the substance of the matter rather than the contemplated action.

If a Committee member or staff member intends to bring up an item for discussion or action, it is to be included on the posted agenda unless the item qualifies as an exception as outlined below:

a. The Committee makes a determination that "the need to take action" arose after the agenda was posted. This determination requires the affirmative votes of at least two-thirds of the members or an unanimous vote if less than two-thirds of the members are present. If the Committee is able to make such a determination, a motion will be made, seconded, and voted upon, and that action along with a brief explanation will state the need for action and the reason that the need arose after the agenda was posted.

In general, if either the members or staff knew of the need for action before the agenda was posted and the item was not included on the agenda for reasons of scheduling convenience or oversight, then the member could not properly determine that the need arose after the agenda was posted.

b. The Committee determines that an emergency situation exists. A motion will be made, seconded, and the vote and action taken, along with a brief explanation of the emergency, will be included in the minutes of that meeting. This determination requires the affirmative vote of a majority of the members present.

Any matter not on the agenda and brought up by a member of the public during a Committee meeting, may be placed on a future Committee agenda if appropriate to the Committee's ~~Assignment~~assignment. The Committee will defer discussion and action on such matters while providing a procedure for responding to the public.

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Any questions regarding the application of the Brown Act should be directed to the City Clerk or the City Attorney.

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ROLE OF COMMITTEE MEMBERS

Chairperson

The City Council shall appoint a Council Member to serve as the City Council representative and Chairperson to the Committee. The Council Member is not a voting member. In the event the Chairperson will be absent from a meeting, they may elect a Vice Chairperson to Chair that meeting.

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The Chairperson shall oversee the Committee's performance and be directly responsible to the City Council.

The Chairperson shall also be responsible for:

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~~B. Meetings Generally~~

~~The Brown Act requires that a Committee, by formal minute action, provide the time for holding regular meetings.~~

~~A Committee may adjourn or continue any regular or adjourned regular meeting to a time and place specified in the order of adjournment or continuance. A copy of Notice of Adjournment or Continuance shall be conspicuously posted on or near the place where the regular or adjourned regular meeting was held.~~

~~When a regular or adjourned regular meeting is adjourned, the resulting adjourned regular meeting is a regular meeting for all purposes.~~

~~The agenda for each regular Committee meeting and each adjourned regular meeting will be posted in places visible to the public at least 72 hours prior to the meeting.~~

~~These places, as designated by the City Council, are as follows:~~

~~1) David W. Smith City Hall (Bulletin Board), 37101 Newark Boulevard~~
~~2) City website newark.org/departments/city-managers-office/agendas-and-minutes~~

- ~~The~~ Calling and presiding over the meetings
- Providing ample opportunity for members to conduct frank and open discussions
- Setting deadlines for work/assignments to be completed
- Keeping members informed of their purpose and checking in with members to confirm work is progressing toward completion
- Attending other Committee meetings to report progress of the Senior ~~Citizen Standing~~ Advisory Committee, if requested

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Active Participation

The Senior Advisory Committee ~~agenda will also be posted~~members are encouraged to be active participants at the Clark W. Redeker Newark Senior Center~~. (5/2020)~~ and act as community ambassadors to support the needs of Newark seniors.

Committee members will identify and work to understand senior needs in the City of Newark and assist with bringing resources to address Newark seniors. Committee recommendations should be limited to areas

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that are not provided for, have not recently been communicated or are not being met by other public, non-profit or private agency programs available to Newark residents.

The Committee may recommend program ideas or procedural changes for staff and policies for the City Council; members will be expected to provide any information which they feel is pertinent to the well-being of Newark seniors.

The Committee is not a decision-making body. Final decisions on meeting the needs of seniors in the City of Newark are the responsibility of the City Council.

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A Committee member who is unable to attend a meeting is responsible for notifying the Committee Chairperson or City staff assigned to the committee. A Committee member that does not provide notification of absence from three consecutive meetings will be subject to removal from the committee, at the Chairperson's discretion.

Reading minutes and preparatory material cannot replace participation in Committee meetings. Therefore, attendance at Committee meetings is critical; hence, members may be removed from the Committee for failure to meet attendance requirements.

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Staff Representatives

Typically, two staff from the Recreation & Community Services Department are assigned to the Senior Advisory Committee by the Recreation & Community Services Department Director to assist the Committee members in accomplishing their objectives. Staff are responsible for preparing and posting agendas per the procedures and timelines below.

COMMITTEE MEETINGS

The Committee meets on a quarterly basis, or as otherwise decided by the Chairperson, at the Clark W. Redeker Newark Senior Center.

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~~A record of these postings will be maintained, per the Citywide Record Retention Schedule. It will include a declaration of the time and place of each posting. (2/94, 1/2011, 5/2020)~~In compliance with state open-meeting laws (Brown Act), the meetings of these bodies are open to the public.

Noticing and Venue

Agendas are posted at locations established by City Council resolution. Current locations are the Clark W. Redeker Newark Senior Center, David W. Smith City Hall, and on the city website Newark.org at least 72 hours prior to the scheduled regular meeting pursuant to Government Code Section 54954.2. Pursuant to Government Code 54957.5, supplemental materials distributed less than 72 hours before the meeting, to a majority of the Senior Advisory Committee, will be made available for public inspection at the meeting at the Clark W. Redeker Newark Senior Center, 7401 Enterprise Drive. Materials prepared by City staff and distributed during the meeting are available for public inspection at the meeting or after the meeting if prepared by some other person.

Courtesy and Decorum

In order to have a welcoming atmosphere during the meetings, it is important that all Committee members and the general public observe some simple rules of decorum.

These rules are not meant to stifle conversation or the expressing of opinions, but rather to ensure that all members are able to focus on the business at hand. Committee members and the general public should act in a courteous and considerate manner at all times and should be respectful of others, regardless of their opinions.

Public Records

The agenda, meeting reports, minutes, audio or video and other official records of the meetings are public records per the California Public Records Act.

Actions Taken by Committee

Informal actions require no vote and generally take the form of the Chairperson providing direction after input from Committee members. Informal actions would include suggesting to or requesting information from City staff. Another example is suggesting that a Committee member report on a future agenda topic.

Formal Actions

Most commonly, formal action is taken by establishing a quorum, consideration of a motion and voting. A majority of the total appointed Committee members shall constitute a quorum. A quorum is necessary to vote on any action. City staff and the Chairperson will not vote on Committee recommendations.

All formal actions must be listed on the agenda and require a motion and a vote in the affirmative, including:

- Approval of the minutes
- Recommendations and requests to the City Manager
- Recommendations and requests to the City Council
- Creation of a Subcommittee
- Continuing an agenda item to a future date

When a quorum does not exist and formal action is on the agenda, the item will be continued to the next meeting, unless the Chairperson decides not to continue the item due to timeliness or relevance.

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City of Newark

Senior Advisory Committee Handbook

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TABLE OF CONTENTS

INTRODUCTION 3

City Government

Open Government

COMMITTEE MEMBERSHIP 3

Application Process

Selection Process

Legal Compliance

ROLE OF COMMITTEE MEMBERS 4

Chairperson

Active Participation

Staff Representatives

COMMITTEE MEETINGS 5

Noticing and Venue

Courtesy and Decorum

Public Records

Actions Taken by Committee

DRAFT

INTRODUCTION

City Government

The City of Newark operates under a Council-Manager form of government. Elected by the residents, the City Council is the City's official legislative and policy-making body. The City Council is ultimately responsible to the residents for the manner in which City business is conducted.

The City Council is comprised of a Mayor elected at-large to a two-year term and four Council Members elected at-large to four-year terms on a staggered basis.

The City Council appoints a City Manager to be the chief administrator. The City Manager is responsible for administrative matters, such as the preparation of the budget, direction and evaluation of City programs and services, and enforcement of all laws and ordinances. The City Manager also establishes administrative policies and coordinates department activities.

The City Council appoints members of the Planning Commission and various advisory committees and contracts for the City Manager and City Attorney. The City Attorney is legal advisor to the City Council, City Manager, and all City departments. It is the responsibility of the City Attorney to ensure that all ordinances, resolutions, and contracts approved by the City Council are in accordance with applicable laws.

Open Government

The City of Newark is committed to creating an open Government. We work together to ensure the public trust and establish a system of transparency, public participation, and collaboration. Openness will strengthen our community and promote efficiency and effectiveness in the City of Newark.

COMMITTEE MEMBERSHIP

Application Process

When a vacancy occurs, it is publicized and any person, 55 years or older, residing within the City of Newark, who is interested in serving on the Senior Advisory Committee is invited to complete an application and submit it to the City Clerk by the established deadline. The applications are then forwarded to the Mayor who makes the appointment with City Council confirmation. Applications remain on file for one year.

Selection Process

The Committee shall be made up of no less than five (5) Committee members and no more than nine (9) Committee members, excluding the City Council representative. The term of office of Committee members shall be for two years or for the unexpired term if filling an unexpected vacancy. Committee members can request reappointment at the end of their terms. Once a vacancy occurs, the Chairperson may choose to reduce the maximum number of Committee members and therefore, not fill the vacancy.

Legal Compliance

It is the policy of the Brown Act that public boards, commissions, committees, task forces, and other multi member bodies created by local agencies in this State exist to aid in the conduct of the people's business. It is the intent of the law that their actions be taken openly and that deliberations be conducted openly.

The agenda will bear a brief general description of each item of business to be transacted or discussed at the meeting. The description will be of sufficient detail to inform the public of the general nature of the subject matter of the item so that the public may seek further information on items of interest. The description will focus on the substance of the matter rather than the contemplated action.

If a Committee member or staff member intends to bring up an item for discussion or action, it is to be included on the posted agenda unless the item qualifies as an exception as outlined below:

a. The Committee makes a determination that "the need to take action" arose after the agenda was posted. This determination requires the affirmative votes of at least two-thirds of the members or an unanimous vote if less than two-thirds of the members are present. If the Committee is able to make such a determination, a motion will be made, seconded, and voted upon, and that action along with a brief explanation will state the need for action and the reason that the need arose after the agenda was posted.

   In general, if either the members or staff knew of the need for action before the agenda was posted and the item was not included on the agenda for reasons of scheduling convenience or oversight, then the member could not properly determine that the need arose after the agenda was posted.

b. The Committee determines that an emergency situation exists. A motion will be made, seconded, and the vote and action taken, along with a brief explanation of the emergency, will be included in the minutes of that meeting. This determination requires the affirmative vote of a majority of the members present.

Any matter not on the agenda and brought up by a member of the public during a Committee meeting, may be placed on a future Committee agenda if appropriate to the Committee's assignment. The Committee will defer discussion and action on such matters while providing a procedure for responding to the public.

Any questions regarding the application of the Brown Act should be directed to the City Clerk or the City Attorney.

ROLE OF COMMITTEE MEMBERS

Chairperson

The City Council shall appoint a Council Member to serve as the City Council representative and Chairperson to the Committee. The Council Member is not a voting member. In the event the Chairperson will be absent from a meeting, they may elect a Vice Chairperson to Chair that meeting.

The Chairperson shall oversee the Committee's performance and be directly responsible to the City Council.

The Chairperson shall also be responsible for:

- Calling and presiding over the meetings
- Providing ample opportunity for members to conduct frank and open discussions
- Setting deadlines for work/assignments to be completed
- Keeping members informed of their purpose and checking in with members to confirm work is progressing toward completion
- Attending other Committee meetings to report progress of the Senior Advisory Committee, if requested

Active Participation

The Senior Advisory Committee members are encouraged to be active participants at the Clark W. Redeker Newark Senior Center and act as community ambassadors to support the needs of Newark seniors.

Committee members will identify and work to understand senior needs in the City of Newark and assist with bringing resources to address Newark seniors. Committee recommendations should be limited to areas that are not provided for, have not recently been communicated or are not being met by other public, non-profit or private agency programs available to Newark residents.

The Committee may recommend program ideas or procedural changes for staff and policies for the City Council; members will be expected to provide any information which they feel is pertinent to the well-being of Newark seniors.

The Committee is not a decision-making body. Final decisions on meeting the needs of seniors in the City of Newark are the responsibility of the City Council.

A Committee member who is unable to attend a meeting is responsible for notifying the Committee Chairperson or City staff assigned to the committee. A Committee member that does not provide notification of absence from three consecutive meetings will be subject to removal from the committee, at the Chairperson's discretion.

Reading minutes and preparatory material cannot replace participation in Committee meetings. Therefore, attendance at Committee meetings is critical; hence, members may be removed from the Committee for failure to meet attendance requirements.

Staff Representatives

Typically, two staff from the Recreation & Community Services Department are assigned to the Senior Advisory Committee by the Recreation & Community Services Department Director to assist the Committee members in accomplishing their objectives. Staff are responsible for preparing and posting agendas per the procedures and timelines below.

COMMITTEE MEETINGS

The Committee meets on a quarterly basis, or as otherwise decided by the Chairperson, at the Clark W. Redeker Newark Senior Center. In compliance with state open-meeting laws (Brown Act), the meetings of these bodies are open to the public.

Noticing and Venue

Agendas are posted at locations established by City Council resolution. Current locations are the Clark W. Redeker Newark Senior Center, David W. Smith City Hall, and on the city website Newark.org at least 72 hours prior to the scheduled regular meeting pursuant to Government Code Section 54954.2. Pursuant to Government Code 54957.5, supplemental materials distributed less than 72 hours before the meeting, to a majority of the Senior Advisory Committee, will be made available for public inspection at the meeting at the Clark W. Redeker Newark Senior Center, 7401 Enterprise Drive. Materials prepared by City staff and distributed during the meeting are available for public inspection at the meeting or after the meeting if prepared by some other person.

Courtesy and Decorum

In order to have a welcoming atmosphere during the meetings, it is important that all Committee members and the general public observe some simple rules of decorum.

These rules are not meant to stifle conversation or the expressing of opinions, but rather to ensure that all members are able to focus on the business at hand. Committee members and the general public should act in a courteous and considerate manner at all times and should be respectful of others, regardless of their opinions.

Public Records

The agenda, meeting reports, minutes, audio or video and other official records of the meetings are public records per the California Public Records Act.

Actions Taken by Committee

Informal actions require no vote and generally take the form of the Chairperson providing direction after input from Committee members. Informal actions would include suggesting to or requesting information from City staff. Another example is suggesting that a Committee member report on a future agenda topic.

Formal Actions

Most commonly, formal action is taken by establishing a quorum, consideration of a motion and voting. A majority of the total appointed Committee members shall constitute a quorum. A quorum is necessary to vote on any action. City staff and the Chairperson will not vote on Committee recommendations.

All formal actions must be listed on the agenda and require a motion and a vote in the affirmative, including:

- Approval of the minutes
- Recommendations and requests to the City Manager
- Recommendations and requests to the City Council
- Creation of a Subcommittee
- Continuing an agenda item to a future date

When a quorum does not exist and formal action is on the agenda, the item will be continued to the next meeting, unless the Chairperson decides not to continue the item due to timeliness or relevance.

DRAFT





NEWARK
california

Clark W. Redeker Newark Senior Center & Senior Citizen Standing Advisory Committee

Clark W. Redeker Newark Senior Center



7401 Enterprise Drive,

adjacent to Jerry Raber Ash Street Park

Hours of operation:

Open Monday - Friday

9:00 am – 3:00 pm

For Adults 55 years of age and older

Senior Center Programs

- **Weekly BINGO Games**
  - Starting at 12:00pm every Thursday
- **Luncheons and Special Events**
  - Free or low-cost
  - Held at least once per month
- **Game Nights**
  - Free
  - Held once per quarter





Senior Center Programs

- **Free Coffee & Refreshments Daily for all Participants**
- **Senior Chair Fitness**
  - Offered at the low-cost of $3 per class
- **Free Daily Activities & Health Presentations**





Newark Senior Center Daily Activities

Open Monday - Friday
9:00am-3:00pm
510-578-4840
senior.center@newark.org

Monday

10:00am.....
Bunco
1st, 3rd & 5th Mon. of month

12:00pm.....
Introduction to Belly Dancing

1:00pm.....
Line Dancing

1:00pm.....
Knit, Crochet & Cross Stitch Group

Daily.....
Billiards
Computers
Fitness Equipment
Lending Library
Pinochle (mornings)
Rummy (late mornings)

Complimentary coffee, tea and snacks are provided daily.

Tuesday

9:00am.....
Bridge

10:00am.....
Beginning Hula

11:00am.....
Intermediate Hula

12:00pm.....
Advanced Hula

1:00pm.....
Guitar Jam
2nd & 4th Tue. of month

Daily.....
Billiards, etc. (see Monday)



Wednesday

9:00am.....
Hand & Foot Canasta

10:00am.....
Quilt Group

1:00pm.....
Ukulele Jam

Daily.....
Billiards, etc. (see Monday)

NEWARK Recreation and Community Services
Newark Senior Center
We ❤ Our Seniors

All activities are free for Seniors 55+ and are held at the Newark Senior Center, 7401 Enterprise Dr., unless noted otherwise.

Thursday

9:00am.....
Mercy Brown Bag Food Distribution
2nd & 4th Thu. of month
at Newark Community Center

9:30am.....
Card Making Class
1st Thu. of month

10:30am.....
Chair Fitness Class
1st & 3rd Thu. of month
See full sched. for exlusions
$3/class

12:30pm.....
BINGO
Arrive at 12:00pm to purchase your pack:
1st Thurs. of Month Special
Birthday BINGO...$10/pack
All other BINGO...$7/pack

Daily.....
Billiards, etc. (see Monday)

Fill out a form in-person to receive your FREE Membership Card!

Friday

9:00am.....
Mahjong
Pre-registration required

9:00am.....
Texas Hold-em Poker

9:30-11:30am.....
iPhone/iPad/Kindle Assistance
1st Friday of month

12:30pm.....
Drop-in Mahjong

Daily.....
Billiards, etc. (see Monday)



Senior Center Volunteers

- **26** Current Volunteers
- **1,425** hours in 2022
- Programs led by volunteers:
  - Mercy Brown Bag Food Distribution
  - Weekly BINGO
  - All dance classes
  - Ukulele Jam
  - Card Making Class
  - Card Games/Mahjong
  - iPhone/iPad Assistance



Senior Center Participants

- **472** Registered daily visitors
- **44** Average Daily Admissions
- Participate in activities on and off-site



Monthly Newsletter!

The Clark W. Redeker Newark Senior Center Monthly Update & Activities Newsletter includes information and referrals to senior services such as:

- Free VITA Tax Assistance
- Mercy Brown Bag Food Distribution
- Ride-On Tri-City Transportation Services
- Senior Help Line
- Discounts for seniors and more!

The Newsletter is sent to 700+ recipients!

Subscribe today: **senior.center@newark.org**



Visit the Clark W. Redeker Newark Senior Center!

Where is the Center?

7401 Enterprise Drive

Center Hours:

Monday - Friday

9:00 am – 3:00 pm

NEWSLETTER SIGN UP



Senior Advisory Committee Members

Members include:

- Mayor and Chairperson, Mike Hannon
- Stanley Keiser
- Sandra Arellano
- Kathleen Lemos
- Rick Arellano
- Eileen McDonald
- Olga Borjon
- Glen Wickizer



Action Items for Council Consideration

Name Change:

The Committee's name is recommended to be modified from "Senior Citizen Standing Advisory Committee" to "Senior Advisory Committee." This adjustment aligns our Committee title with current practices and eliminates any potential misconception that U.S. citizenship is a requirement for committee membership.

Committee Membership: Selection Process

The Committee shall be made up of no less than five (5) committee members and no more than nine (9) Committee members, excluding the City Council representative. Presently, the Committee comprises no less than eight (8) Committee Members and no more than twelve (12) Committee members, plus a City Council Representative.

Action Items for Council Consideration

Role of Committee Members:

Active Participation

The Committee Members are encouraged to be active participants at the Clark W. Redeker Newark Senior Center and act as community ambassadors to support the needs of Newark seniors.



Action Items for Council Consideration

Role of Committee Members: Attendance Requirements

Language has been included to clarify attendance requirements and the process for reporting absences to the Committee Chairperson or City Staff. The existing handbook lacks specific information regarding the permissible number of absences from missed meetings.

Staff recommends the following new language:

- A Committee member who is unable to attend a meeting is responsible for notifying the Committee Chairperson or City staff assigned to the committee
- A Committee Member that does not provide notification of absence from three consecutive meetings will be subject to removal from the Committee, at the Chairperson's discretion.

Action Items for Council Consideration

Committee Meetings:

- **Meeting Frequency:** The Committee meets on a quarterly basis compared to the previous monthly format, or as otherwise decided by the Chairperson, at the Clark W. Redeker Newark Senior Center. In compliance with state open-meeting laws (Brown Act), the meetings of these bodies are open to the public.
- **Noticing and Venue:** Updated locations are the Clark W. Redeker Newark Senior Center, David W. Smith City Hall, and on the city website Newark.org at least 72 hours prior to the scheduled regular meeting pursuant to Government Code Section 54954.2.

Thank you!

Questions?

Center information: WWW.NEWARK.ORG/SENIORCENTER

Register for a class: WWW.NEWARK.ORG/RECREG

RESOLUTION NO. XX

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF NEWARK APPROVING THE REVISED GUIDELINES AND PROCEDURES FOR THE SENIOR CITIZEN STANDING ADVISORY COMMITTEE

WHEREAS, Staff, having assessed the current functioning of the Senior Citizen Standing Advisory Committee and identified opportunities for enhancement, recommends the implementation of these changes to optimize the committee's impact on Newark's senior population; and

WHEREAS, Staff recommends a name change from Senior Citizen Standing Advisory Committee to Senior Advisory Committee; and

WHEREAS, the Committee shall consist of no fewer than five (5) and no more than nine (9) members, with the exception of the City Council representative, aiming to establish a balanced and effective group. This adjustment in membership facilitates the ability of a quorum required for official meetings, thus enabling the committee to convene and make informed decisions; and

WHEREAS, Committee member's attendance requirements were better clarified, including how to report absences to the Committee Chairperson or City Staff; and

WHEREAS, the Committee now convenes quarterly, departing from the prior monthly schedule, or as determined by the Chairperson, at the Clark W. Redeker Newark Senior Center, thereby facilitating more focused and impactful discussion; and

WHEREAS, updated locations for meetings encompass the Clark W. Redeker Newark Senior Center, David W. Smith City Hall, and the city website Newark.org, all announced at least 72 hours before regular meetings as stipulated by Government Code Section 54954.2; and

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Newark that the Senior Citizen Standing Advisory Committee handbook be amended.

I HEREBY CERTIFY the foregoing resolution was introduced at a regular meeting of the City Council of the City of Newark held on September 14, 2023, by XX who moved its adoption and passage, which motion was carried after being duly seconded, and passed by the following vote:

AYES:

NOES: None

ABSENT: None

SECONDED:

APPROVED:

s/
Mayor

ATTEST:

s/SHEILA HARRINGTON
City Clerk

APPROVED AS TO FORM:

s/KRISTOPHER J. KOKOTAYLO
City Attorney

STAFF REPORT

Item G. 1.

DATE	09/14/2023
TO	Honorable Mayor and City Council Members
FROM	Sheila Harrington, City Clerk
SUBJECT	Adopt a resolution approving the Mayor's appointment to the Senior Citizen Standing Advisory Committee

Two vacancies occurred on the Senior Citizen Standing Advisory Committee over the Summer. Elwood "Woody" Ballard resigned effective August 1, 2023, and Susan Johnson's seat was considered vacated when she relocated out of the City of Newark. The vacancies reduce the committee to 7 members, which currently has a minimum membership of 8. In a separate staff report on this agenda, staff suggests changing the membership to no less than five (5) committee members and no more than nine (9) Committee members, excluding the City Council representative.

The City Clerk advertised the vacancy and applications were received from Shirley R. Ferrante and Linda Mapes. Mayor Hannon will announce his selection at the City Council Meeting.

It is recommended that the City Council adopt a resolution approving the appointment to the Senior Citizen Standing Advisory Committee for a term to expire on April 14, 2025.

Attachments

Resolution

RESOLUTION NO.

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF NEWARK APPROVING THE APPOINTMENT OF _____ TO THE SENIOR CITIZEN STANDING ADVISORY COMMITTEE

WHEREAS, Elwood "Woody" Ballard, hereto appointed member of the Senior Citizen Standing Advisory Committee resigned his seat effective August 1, 2023; and

WHEREAS, Susan Johnson, hereto appointed member of the Senior Citizen Standing Advisory Committee vacated her by relocating from Newark over the Summer; and

WHEREAS, the City Clerk advertised the vacancy and received applications from, ADD NAMES; and

WHEREAS, the Mayor of the City of Newark has considered the applications; and

WHEREAS, the Mayor of the City of Newark has appointed _____ to said position on the Senior Citizen Standing Advisory Committee for a term expiring April 14, 2025;

NOW, THEREFORE, BE IT RESOLVED that said appointment is hereby approved by the City Council of the City of Newark.

STAFF REPORT

Item I. 1.

DATE	09/14/2023
TO	Honorable Mayor and City Council Members
FROM	Cathreene Ingham-Watters, Human Resources Director
SUBJECT	Closed session for conference with Labor Negotiators pursuant to California Government Code Section 54957.6. Agency designated representatives: City Manager Benoun, Assistant City Manager Hovorka, Human Resources Director Ingham-Watters, and Labor Attorney; Employee Group: the Newark Police Association