

**EXHIBIT “F”**  
**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Agreement # C-22-0192-12-13**

**WORK AUTHORIZATION NO. 1**

**THIS WORK AUTHORIZATION** is made pursuant to the terms and conditions of the Professional Engineering Services Agreement No. C-22-0192-12-13 , incorporated herein by reference, for the “Groundwater, Gas Monitoring and Groundwater Data Evaluation Monitoring and Groundwater Data Evaluation at Closed Landfill” made by and between HIDALGO COUNTY, action herein by and through the Commissioner’s Court, hereinafter called the “**Owner,**” and Aptim Environmental & Infrastructure, LLC, hereinafter called “**Engineer**”.

**PART 1. SCOPE OF WORK**

The purpose of this Work Authorization is for the **Engineer** to provide groundwater and landfill gas monitoring and reporting MSW Permit No. 1593-A; Facility ID No. TX-02102.

The **Engineer** is to provide the scope of Services as required by the Agreement with Owner.

The scope of services to be provided by the **Engineer** is identified in **Attachment “A”** – “*Scope of Services to be provided by Engineer*” attached hereto and incorporated by reference.

**PART 2. ESTIMATED COST**

The estimated cost for services under this Work Authorization is **\$69,335.10**. This amount is based upon the costs outlined in the **Attachment “B”** – “*Fee Proposal*” attached hereto and incorporated by reference.

**PART 3. PAYMENT**

Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the **Professional Engineering Services Agreement No. C-22-0192-12-13** between the **Owner** and the **Engineer**.

**PART 4. FUNDING**

This Work Authorization No.1 shall be funded through funding source:

Account No. \_\_\_\_\_

Requisition Number \_\_\_\_\_ **(MUST BE INCLUDED AFTER CC APPROVAL)**

**PART 5. PERIOD OF SERVICE**

This Work Authorization shall become effective on the date of final acceptance of the parties hereto, and terminate **upon completion of the scopes of the Work Authorization, within the limits of Agreement No. C-22-0192-12-13, provided in this Work Authorization; or on ( \_\_\_\_\_ DATE )**. *If applicable:* Engineer shall conform to the

approved "Work/Project Schedule", attached hereto and incorporated by reference herein as Attachment "C".

**PART 6. RESPONSIBILITIES AND OBLIGATIONS**

This Authorization does not waive the parties' responsibilities and obligations provided under the Agreement No. C-22-0192-12-13.

**PART 7. ACKNOWLEDGEMENT AND CONFIRMATION**

Acknowledgement and confirmation by **Hidalgo County Precinct 4, Commissioner Ellie Torres**, as to content and detail of this **Work Authorization No. 1**.

**HIDALGO COUNTY PRECINCT No. 4**

By: \_\_\_\_\_  
**Ellie Torres**, Commissioner

**PART 8. ACCEPTANCE AND APPROVAL**

This Work Authorization is hereby accepted and approved by the Hidalgo County Commissioners Court and hereby executed and effective as of the date indicated below.

**APPROVED BY COMMISSIONERS' COURT ON AUGUST 22, 2023**

**Agenda Item No. 92080**

**Executive Office:** \_\_\_\_\_

**ENGINEER:**  
Aptim Environmental & Infrastructure, LLC.

**COUNTY:**  
COUNTY OF HIDALGO

\_\_\_\_\_  
Curtis R. Lee, Director Environmental

\_\_\_\_\_  
Hon. Richard F. Cortez, County Judge

**ATTEST:**

\_\_\_\_\_  
Arturo Guajardo, Jr., County Clerk

**LIST OF ATTACHMENTS:**

**Attachment "A"** – *Scope of Services to be provided by Engineer*

**Attachment "B"** – *Fee Proposal*

**Attachment "C"** – *Approved Work/Project Schedule (If applicable)*



# **ATTACHMENT A**

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**PROJECT SPECIFIC SCOPE OF SERVICES  
TO BE PROVIDED BY ENGINEER**



APTIM  
5690 DTC Boulevard, Suite 600  
Greenwood Village, CO 80111  
Tel: +1 303 741 7700  
Fax: +1 303 741 7479

April 18, 2023

Mr. Nick Perez, MBA, CPM  
Hidalgo County Precinct 4  
1051 North Doolittle Road  
Edinburg, Texas 78542

RE: Proposal for Groundwater and Landfill Gas Sampling  
Hidalgo County Precinct 4 (Closed) Landfill, MSW Permit No. 1593A (site)

Dear Mr. Perez:

Aptim Environmental & Infrastructure, LLC (APTIM) is pleased to present this proposal to provide engineering, groundwater sampling, landfill gas monitoring, and reporting services in response to the closed landfill under MSW Permit No. 1593A. This includes two semi-annual groundwater sampling events, three quarterly landfill gas monitoring events, three quarterly landfill gas monitoring reports, two semi-annual groundwater monitoring reports, and general engineering/consulting services within these monitoring and reporting efforts. After review of the files provided by Hidalgo County, the proposed services will satisfy the TCEQ requirements for monitoring, although APTIM notes that the currently approved Groundwater Sampling and Analysis Plan (GWSAP) is either not clear or not available.

### **Scope of Work – Semi-Annual Groundwater Sampling and Reporting**

Twice during 2023, APTIM will mobilize to the site to perform semi-annual groundwater monitoring events. APTIM will alert Hidalgo County of scheduled field activities prior to mobilization. APTIM staff will collect gauging data from the nine (9) groundwater monitoring wells, then proceed to utilize low-flow sampling methodology to purge each well prior to sample collection. APTIM will collect purging data utilizing a multi-parameter water quality instrument. Once water quality parameters have stabilized, APTIM will collect groundwater samples in laboratory-supplied containers for total alkalinity by Method SM-2320-B, total dissolved solids by Method SM-2540-C, ammonia as nitrogen by EPA Method 350.1, total and dissolved metals by EPA Method 6020B (with dissolved metals analyzed after lab filtration), volatile organic compounds by EPA Method 8260C, pH by EPA Method 9040C, specific conductance by EPA Method 9050A, and for chloride and sulfate by EPA Method 9056A. APTIM will then ship the samples to the laboratory on ice and via overnight delivery, as required by the applicable sample preservation requirements. Samples will be delivered to Eurofins Environment Testing South Central, a National Environmental Laboratories Accreditation Conference (NELAC) accredited laboratory, for analyses of the above analytical methods.

Upon receipt of the field and analytical data, APTIM staff will prepare a Semi-Annual Groundwater Monitoring Report after each of the two groundwater sampling events. Each report will contain the relevant groundwater data, tables, figures, and discussion of any readings observed to exceed the TCEQ approved Prediction Limits. The Prediction Limits to compare will be provided by Hidalgo County. APTIM will provide a draft of each report to Hidalgo County for review, then will incorporate comments and provide the final, signed and sealed document to both Hidalgo County and to the TCEQ.



### **Scope of Work – Quarterly Landfill Gas Monitoring and Reporting**

Concurrently with groundwater sampling events where possible, APTIM will mobilize to the site to conduct quarterly landfill gas monitoring events. APTIM staff will be equipped with a LandGem 5000 gas monitor and will collect readings from the six (6) monitoring points under typical requirements of the TCEQ. APTIM has not had the opportunity to review a Landfill Gas Management Plan, so work will be conducted in accordance with Texas Administrative Code, TCEQ Standard Operating Procedures, and industry best practices. APTIM will produce quarterly Landfill Gas Monitoring Reports as draft for review by Hidalgo County, and after receiving comments will complete final reports for distribution to Hidalgo County and the TCEQ.

### **Scope of Work – Contingency Efforts**

As the monitoring results and the site-specific direction of the TCEQ cannot be fully predicted, APTIM has included contingency efforts with this proposal. These efforts may be utilized in response to Statistically Significant Increases, verification sampling, statistical comparisons, alternate source demonstrations, background evaluations, or other efforts which may be either required by the TCEQ or which may be beneficial to Hidalgo County. APTIM will not execute such efforts without written consent from Hidalgo County.

The total price for the site activities is estimated at \$69,335.10 and is proposed to be completed on a time and materials basis. Terms and conditions will be per the Agreement for Professional Engineering Services C-22-0192-12-13 between Hidalgo County and Aptim Environmental & Infrastructure, LLC, dated January 10, 2023, and all amendments thereto.

If you have any questions or comments, please contact me at (817) 482-6238.

Sincerely,

A handwritten signature in blue ink that reads "Jason Ramsay".

Jason Ramsay, P.E.  
Project Manager / Lead Engineer  
Aptim Environmental & Infrastructure, LLC

Please Reply To: Jason Ramsay  
Phone: 817.482.6238  
E-Mail Address: [Jason.Ramsay@APTIM.com](mailto:Jason.Ramsay@APTIM.com)

Attachment

cc: Mike Oden, P.E.  
Thomas Gregory, P.G.



# **ATTACHMENT B**

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## **FEE PROPOSAL**

## APTIM Proposed Cost Estimate

Hidalgo County, Precinct 4 Closed Landfill - Groundwater and Landfill Gas Monitoring and Reporting  
MSW Permit No. 1593-A; Facility ID No. TX-02102  
Edinburg, Texas

### Task 1: 4 Semi-Annual Detection Monitoring / Quarterly Background Monitoring Groundwater Sampling Event

*Each Event*

Professional Engineer	2 hours	\$ 180.00	\$ 360.00
Project Manager	4 hours	\$ 145.00	\$ 580.00
Junior Scientist/Engineer	2 hours	\$ 83.00	\$ 166.00
Field Technician	15 hours	\$ 83.00	\$ 1,245.00
Administrative/Accounting	4 hours	\$ 75.00	\$ 300.00
Light Pickup Truck	2 days	\$ 95.00	\$ 190.00
Groundwater Sampling Equipment & Supplies	9 wells	\$ 55.00	\$ 495.00
Laboratory Analytical	\$ 10,310.50 sub	10%	\$ 11,341.55
Laboratory Sample Shipping	\$ 300.00 sub	10%	\$ 330.00
Liquid Waste Transportation and Disposal	\$ 1,410.00 sub	10%	\$ 1,551.00
		<b>Subtotal for Event 1</b>	<b>\$ 16,558.55</b>
		<b>Subtotal for Events 1-2</b>	<b>\$ 33,117.10</b>

### Task 2: 4 Quarterly Gas Monitoring Events (Conducted Concurrently with Groundwater Sampling Events)

*Each Event*

Professional Engineer	1 hours	\$ 180.00	\$ 180.00
Project Manager	1 hours	\$ 145.00	\$ 145.00
Junior Scientist/Engineer	1 hours	\$ 83.00	\$ 83.00
Field Technician	6 hours	\$ 83.00	\$ 498.00
Administrative/Accounting	1 hours	\$ 75.00	\$ 75.00
Light Pickup Truck (Concurrent with Task 1)	0 days	\$ 95.00	-
Landfill Gas Monitoring Equipment & Supplies	2 days	\$ 235.00	\$ 470.00
		<b>Subtotal for Event 1</b>	<b>\$ 1,451.00</b>
		<b>Subtotal for Events 1-3</b>	<b>\$ 4,353.00</b>

### Task 3: Prepare Quarterly Gas Monitoring Reports

*Each Event*

Professional Engineer	1 hours	\$ 180.00	\$ 180.00
Project Manager	1 hours	\$ 145.00	\$ 145.00
Mid-Level Scientist/Engineer	4 hours	\$ 97.00	\$ 388.00
Junior Scientist/Engineer	4 hours	\$ 83.00	\$ 332.00
Administrative/Accounting	4 hours	\$ 75.00	\$ 300.00
CAD Operator	2 hours	\$ 95.00	\$ 190.00
		<b>Subtotal for Event 1</b>	<b>\$ 1,535.00</b>
		<b>Subtotal for Events 1-3</b>	<b>\$ 4,605.00</b>

## APTIM Proposed Cost Estimate

Hidalgo County, Precinct 4 Closed Landfill - Groundwater and Landfill Gas Monitoring and Reporting  
MSW Permit No. 1593-A; Facility ID No. TX-02102  
Edinburg, Texas

### **Task 4: Prepare Semi-Annual Groundwater Sampling Reports**

*Each Event*

Professional Engineer	8 hours	\$ 180.00	\$ 1,440.00
Project Manager	6 hours	\$ 145.00	\$ 870.00
Senior Scientist/Engineer	8 hours	\$ 145.00	\$ 1,160.00
Mid-Level Scientist/Engineer	10 hours	\$ 97.00	\$ 970.00
Junior Scientist/Engineer	10 hours	\$ 83.00	\$ 830.00
Administrative/Accounting	6 hours	\$ 75.00	\$ 450.00
CAD Operator	4 hours	\$ 95.00	\$ 380.00
		<b>Subtotal for Event 1</b>	<b>\$ 6,100.00</b>
		<b>Subtotal for Events 1-2</b>	<b>\$ 12,200.00</b>

### **Task 5: Contingency (File Review, Communication with TCEQ, Additional Reporting, Verification Sampling, etc)**

*Each Event*

Professional Engineer	20 hours	\$ 180.00	\$ 3,600.00
Project Manager	20 hours	\$ 145.00	\$ 2,900.00
Senior Scientist/Engineer	4 hours	\$ 145.00	\$ 580.00
Mid-Level Scientist/Engineer	10 hours	\$ 97.00	\$ 970.00
Junior Scientist/Engineer	10 hours	\$ 83.00	\$ 830.00
Administrative/Accounting	4 hours	\$ 75.00	\$ 300.00
CAD Operator	4 hours	\$ 95.00	\$ 380.00
Laboratory Analytical	\$ 5,000.00 sub	10%	\$ 5,500.00
		<b>Subtotal for Event 1</b>	<b>\$ 15,060.00</b>
		<b>Only 1 Event</b>	<b>\$ 15,060.00</b>

Total Not-to-Exceed Cost for Monitoring and Reporting Services, Year 1: **\$ 69,335.10**

**Notes:**

APTIM assumes that no Statistically Significant Increases, verification sampling, or other additional field events or reporting efforts will be required by the TCEQ. A contingency budget has been provided as Task 5, which may be utilized by Hidalgo County for such tasks. APTIM notes that it cannot fully predict what additional tasks may be required either due to the sampling/monitoring results themselves or by the TCEQ. Additional effort beyond these efforts may be required, and unneeded efforts will not be billed.

Laboratory costs include nine (9) groundwater samples plus equipment blanks, field blanks, trip blanks, and duplicates, as required by the 2015 GWSAP draft reviewed by APTIM.

Laboratory analytical includes total alkalinity (SM2320B), Total Dissolved Solids (SM2540C), Ammonia as N (350.1), total and dissolved (with filtration) metals (6020B), volatile organic compounds (8260C), pH (9040C), Specific Conductance (9050A), and Chloride and Sulfate (9056A).

Liquid sampling waste disposal will only be incurred if required, depending on laboratory analytical results from the collected groundwater samples.

Subcontractor costs will be billed as received, plus the contractual 10% markup. Amounts will be billed on actual subcontractor invoices, which will be included for invoice backup.

Samples will be lab-filtered, as with previous site samples collected.

For reporting purposes, APTIM will compare values to the prediction limits outlined in the October 2021 Groundwater Sampling Report. APTIM will not make statistical comparisons, alternate source, or background demonstrations within this level of effort.

APTIM assumes that access will be provided to the site without delay at least between the hours of 7am and 5pm Monday through Friday.