

Fusaro Land Reclamation

Management Plan

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Fusaro Land Reclamation

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1.0 Introduction

The Goodyear Land Reclamation operates a land reclamation program on 29.4 acres located in Goodyear, Arizona. This site is a former borrow pit area operation by the Arizona Department of Transportation. The subject of this Management Plan is the filling of this borrow pit and its return to productive land that can be used for a future land use, such as residential development, a water recharge site, or other alternative land use yet to be determined. Fusaro first received a SUP for the Land Reclamation Project (“LRP”) on May 8, 2017, and pursuant to stipulation Fusaro is to re-apply for a SUP if the LRP is not completed within five years. The project is currently estimated to be close to 40% complete. The pace of the project is dependent on market forces and based on the current status, Fusaro estimates the LRP will operate for 5-7 more years. Fusaro has already cleaned up what it estimates to be over a thousand piles of debris that were dumped prior to Fusaro’s acquisition.

2.0 Operational Certificates and Licenses

The land reclamation project will be operated in accordance with the Management Plan and the Rules and Regulations of the U.S. Environmental Protection Agency (EPA), Arizona Department of Environmental Quality (ADEQ), Maricopa County, and the City of Goodyear, Arizona. The material to be disposed of is considered inert, non-hazardous construction demolition and other materials such as clean dirt from local site excavations.

3.0 Responsibilities

3.1 Site Manager – Fusaro Land Reclamation

Responsibility for the management of the site rests with the Site Manager. The Site Manager will ensure that the operation of the facility is in accordance with this management plan and meets all of the requirements of its operational certificates and licenses. The Site Manager is also responsible for site safety.

3.2 Site Engineer – TTG

Responsible for the engineering and licensure aspects of the site. Responsibilities include review and audit of operations on a periodic random basis that incoming inert materials and working face meet management plan criteria including requirements as to materials, placement and cover.

4.0 General Operation

4.1 Site Safety

Detailed safety requirements will be documented in the site safety manual. As a minimum, all personnel are required to have positive identification, a visibility vest, hardhat, and safe

footwear and eye protection. All visitors to the Land Reclamation Project must check in with the operator when they enter the site. Children and pets are to remain in their vehicles while on the site and be under close parental/owner control.

4.2 Site Security

The Land Reclamation site will be fenced and gated. Gate operation is the responsibility of the Site Manager. For liability reasons, the landfill must be secured when site personnel are present on the site. The Site Manager is responsible for Site Security.

4.3 Permitted Materials

The following is a list of permitted materials:

1. Acceptable Inert Materials

- a. ~~Construction and Demolition Debris~~ **
- b. ~~Untreated and treated wood~~ **
- c. ~~Shingles~~ **
- d. ~~Sheetrock (Gypsum/Drywall)~~ *
- e. Plant-Mixed Asphalt (milled or excavated)
- f. ~~PVC piping~~ **
- g. ~~Plastic Buckets (open) less than 10 gallons~~ **
- h. Brick, Concrete and Pearlite
- i. Clean, Uncontaminated Dirt and Gravel
- j. Rock

2. Unacceptable Materials

- a. Burning or smoldering wastes
- b. Hazardous Wastes of any sort
- c. Paper or Cardboard
- d. Used Motor Oil
- e. Batteries
- f. Liquid Wastes
- g. White Goods
- h. Tires
- i. Radio Active Wastes
- j. Wet Sludge's
- k. Aluminum Cans or Empty Chemical Containers
- l. Metal Drums – Unless empty, perforated and crushed
- m. Yard Wastes (Green Wastes)
- n. Automobiles or Automobile parts
- o. Ash (Unless Approved by Site Engineer)
- p. Regulated Medical Wastes

- q. Friable Asbestos
- r. Electrical Fixtures including transformers
- s. Unidentifiable Materials... see General Rule

* Removed from acceptable list by ADEQ effective 7-1-2009

** Removed from acceptable list by ADEQ effective 2-27-2012

General Rule

In general, any materials brought to the Land Reclamation Project that cannot be readily identified by the Land Reclamation Operator or the Site Manager will be immediately rejected and the truck turned away.

5.0 Filling

5.1 Operating Area

The land reclamation site will have a ring access road around the bottom of the working level. The land reclamation site will be developed according to a plan maintained by the Site Engineer and will be the controlling document for the final completion phases of the project.

5.2 Filling Method

The estimated fill rate is 80,000 cubic yards per year. The method for filling will be by progressively end dumping over the edge of previously deposited materials and machine compaction. The Site Manager and the Site Engineer shall devise a plan on a yearly basis, updated quarterly to ensure the working face is minimized and compaction of already deposited materials will be maximized. As the material deposited reaches within 8 feet of maximum fill, an evaluation of final cover plans based on end use will be conducted to ensure adequate geotechnical integrity.

5.3 Leveling and Grading

The landfill material will be leveled weekly using a bulldozer or heavy front end loader. Operators should be expect to use a minimum of 2 passes and then extend or reduce efforts as experience dictates for efficient compaction.

5.4 Cover Materials

Intermediate cover will be stored near the active face. Other materials may be imported to provide improved surface stability or to improve road access.

5.5 Dust Control

It is the responsibility of the Site Manager to ensure all provisions of the Maricopa County Dust Control Permit are met including the accumulation of dirt on the Good year City streets

from the Land Reclamation Project. Any violations of the Dust Control Permit are the sole responsibility of the Site Manager.

6.0 Vector Control

6.1 Vector Control

It is important from a community health perspective that office and domestic waste not be permitted at this land Reclamation project. It is important that the public be kept out of the area to prevent illegal dumping. Should illegal dumping become a concern, security cameras and gate procedures will be enforced. Illegal dumpers will be identified from on site surveillance cameras and charges filed with the local authorities.

6.2 Standing Water

No stagnate ponding of water will be allowed on site as this provides breeding grounds for mosquitoes bearing diseases such as the West Nile Virus.

7.0 Emergency Response

The Fusaro Land Reclamation project will maintain a comprehensive emergency phone list of first responders. This section provides a list of first call numbers:

Site Manager Travis Rivarde 720-755-5251

Site Engineer Mike Jackson, PE 480-292-0247

Goodyear Fire Department 911

Goodyear Police Department 911

7.1 Fire Control

Some elements of Construction Debris (wood) can contain combustible components. The Land Reclamation Operator will be responsible for monitoring the site and keeping watch for the appearance of smoke. If smoke is observed, the Goodyear Fire Department will be called. Vehicles, where possible, will be restricted to covered designated areas. The entire site is a non –smoking area.

8.0 Records and Reporting

The Site Manager will maintain the following records:

- Land Reclamation Management Plan and revisions
- Load Records
- Inspection Records for inspections conducted by Site Engineer and Regulatory Agencies

- Contingency Plan and notification procedures
- Closure and post-Closure plans
- Interpretations of any Monitoring Results
- Copies of Annual Reports

Per stipulations, updates on operations will be provided to the City Engineer Inspector on a monthly basis. An Annual Report will be prepared under the direction of the Site Engineer for submission to the City Engineer, City of Goodyear, Arizona on the 15th of the month following the end of the quarter and on February 15 following the year following the report year.

- Total estimated volume and/or tonnage of material placed in the Land Reclamation Project
- Approved Design Volume vs. Existing Volume
- Remaining Site Life and Capacity
- Operational Plan for next 12 months
- An up to date Management Plan
- A review of the Closure Plan and associated estimated costs

9.0 Land Reclamation Closure Plan

It is estimated the LRP will operate for 5-7 more years. When the LRP reaches final elevation, it will be closed out by performing final topographical studies and creating a final drainage plan. Fusaro will work closely with City Staff during the closing process to ensure optimum engineering best practices are utilized and completed. The LRP will be closed out in accordance with a final closure plan with the design parameters as outlined below. Closure may be facilitated in phases at the discretion of Fusaro Land Reclamation based on operating experience. The basic closure plan will include the following:

- Waste volumes and area being closed and an anticipated closure date
- A topographic plan showing the final elevation contours of the landfill with drainage controls.
- Design of the final cover including information on topsoil, vegetative cover and erosion prevention controls
- A plan for monitoring settlement and post drainage controls
- An anticipated land development program to return the land to productive use

It is anticipated that the Land Reclamation Closure Plan will be submitted to the City Engineer, City of Goodyear approximately 18 months before closure activities take place.

10.0 Approvals

Donald Feters
Fusaro LLC