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Part III Attachment III-A
Site Development Plan Narrative

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SITE DEVELOPMENT PLAN NARRATIVE

Pescadito Environmental Resource Center
MSW No. 2374
Webb County, Texas

PESCADITO
ENVIRONMENTAL RESOURCE CENTER

Initial Submittal March 2015
Revised September 2015
Technically Complete March 11, 2016
Modified August 2017

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1.2 Drainage

Portions of the site are currently located within the 100-year floodplain (See Part II, Figure 11). As part of development of the site in preparation of its use as a landfill, a Conditional Letter of Map Revision (CLOMR) has been prepared and approved to remove portions of the site from the 100-year floodplain. The CLOMR was submitted to Webb County and was subsequently approved by FEMA ~~(See Part III, Attachment III-C for additional information regarding flood plains)~~ on November 21, 2014. However, until the CLOMR improvements are constructed and approved by FEMA, all solid waste management activities will occur in areas outside of the 100-year floodplain currently mapped by FEMA as depicted on Flood Insurance Rate Map (FIRM) for Webb County, Texas, Map No. 48479C1275C, dated April 2, 2008.

Off-site flow from the north and east will be directed around the facilities. Flows from the landfill and other waste management units will be contained and controlled through a variety of structures so that natural drainages patterns are not adversely altered. Surface water drainage in and around the facility will be further controlled to minimize surface water from running onto, into, or from the area. ~~The flood plain improvements will be completely on Yugo Ranch property and will redirect most of the offsite flows (run on) around the perimeter of the site to keep them separate from onsite flows (runoff). The pre-improvement drainage patterns are primarily from the west and north and contribute run-on to the site. The discharges from San Juanito Creek Tributary (western contributions) will be collected in a new detention basin (West Dam) located immediately west of the facility. The releases from the West Dam will then be directed in a new offsite channel to the southwest around the site. The discharges from Tributary 2 of San Juanito Creek Tributary (northwestern contributions) will be collected in a new offsite channel (Diversion Channel to the West Dam) and will also be directed into the same detention basin. In addition, there are two small unnamed tributaries located immediately north of the site. The run-on associated with the north western tributary will be captured by a new detention basin (Northwest Dam) with discharges being directed into the West Dam. The run-on associated with the north eastern tributary will be captured by a new detention basin (Northeast Dam).~~

There are two large surface water impoundments on the PERC facility and several smaller impoundments which have historically been used for livestock and other agricultural uses. For

the most part, surface water flow occurs as overland flow and flow in dry washes whose course is difficult to identify on aerial photos. A few of the dry swales on or near the southern end of the PERC facility do not have defined bed and banks. This fact, along with other considerations, led the U.S. Army Corps of Engineers to declare that the project does not require authorization from the Department of the Army pursuant to Section 404 and/or Section 10. See Part II, Attachment A.

The facility will operate under Texas Pollutant Discharge Elimination System (TPDES) General Permit No. TXR050000. It will also operate in accordance with a Storm Water Pollution

Prevention Plan (SWPPP). The SWPPP will be prepared to reflect the design conditions of the landfill and related facilities. The SWPPP and TPDES General Permit will be obtained prior to being required due to construction of the facility. (See Part II, Attachment H for TPDES certification).

Onsite surface water will be controlled with a variety of structures designed to collect and direct discharges through the project site to downstream discharge points. (See Part III, Attachment III-C). The system will include contouring, slope berms, protected downchutes, collection channels, perimeter ditches, and detention/sedimentation ponds.

1.3 Land Use and Zoning

The Land-Use Map is presented as Part II, Figure 8, and shows the existing land uses within one mile of the facility. The land use presented on this map was obtained by observation and examination of recent aerial photographs, and is believed to be accurate as of the date of the photograph, which was taken in 2008. This land use information was checked by visual observation in June 2010 and again in 2013, 2014 and 2015. The current land use is shown on Figure 8 of Part II, and is as described in the Land Use Map Legend.

3.0 FACILITY SURFACE WATER DRAINAGE DESIGN

330.63(c)

Design information concerning the facility's surface water drainage is included in Part III, Attachment III-C - Facility Surface Water Drainage Report. Attachment III-C includes a discussion, drawings, and calculations that demonstrate that the facility was designed to meet the requirements of 330.63(c) and Subchapter G of Chapter 330. The surface water drainage design report includes analyses of the existing conditions, ~~improvements due to the approved CLOMR,~~ post development conditions, and design of the surface water management system. The surface water management system includes final cover drainage facilities, perimeter drainage channels, and detention and sedimentation ponds; and also includes an erosion and sediment control plan for all phases of landfill development. The surface water drainage design report demonstrates that existing drainage patterns will not be adversely altered.