

**Changed Pages**  
**Part III, Attachment III-H**  
**Closure Plan**

**Part III  
Attachment III-H**

**CLOSURE PLAN**

**Pescadito Environmental Resource Center  
MSW No. 2374  
Webb County, TX**

**PESCADITO**  
ENVIRONMENTAL RESOURCE CENTER

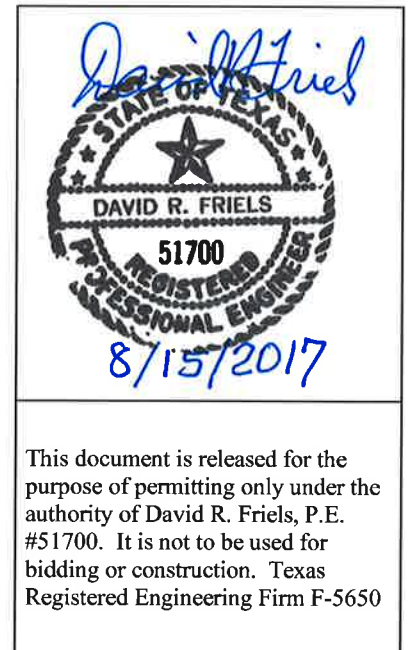
**Initial Submittal March 2015  
Revised September 2015  
Technically Complete March 11, 2016  
Revised August 2016  
Modified August 2017**

**Prepared For:  
Rancho Viejo Waste Management, LLC  
1116 Calle del Norte  
Laredo, TX 78041**

**Prepared by  
APTIM Environmental and  
Infrastructure, Inc.  
(f/k/a CB&I Environmental &  
Infrastructure, Inc.)**

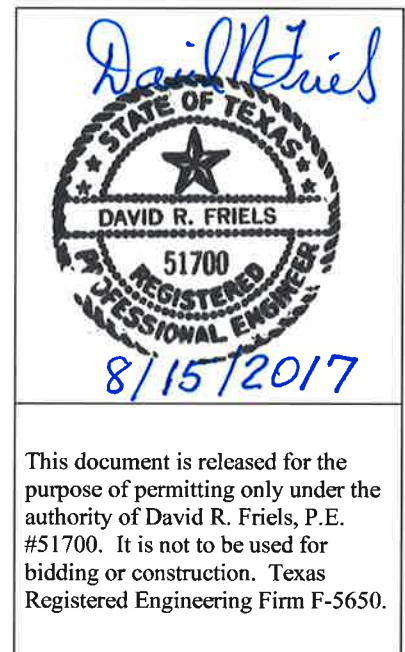


**12005 Ford Rd., Suite 600  
Dallas, TX 75234**



## Table of Contents

1.0	CLOSURE PLAN.....	1
1.1	General.....	1
1.2	Estimate of Maximum Inventory of Waste on Site.....	1
1.3	Estimate of Largest Area Requiring Final Cover.....	2
2.0	LANDFILL FINAL COVER SYSTEM.....	4
2.1	Landfill Final Cover System Design.....	4
2.2	Installation Methods and Procedures .....	4
2.3	Construction Procedures .....	4
3.0	CLOSURE PROCEDURES .....	6
3.1	Landfill Final Cover/Closure Sequence.....	6
3.2	Landfill Closure During Active Life.....	6
3.3	Liquid Waste Solidification Unit Closure.....	7
3.4	Citizens Convenience Center Closure .....	8
3.5	Leachate and Contaminated Water Storage .....	8
4.0	CLOSURE SCHEDULE .....	9
4.1	Final Cover Construction.....	9
4.2.1	Closure Plan Implementation.....	9
4.3	Provisions for Extending Closure Period.....	11
5.0	CLOSURE COST ESTIMATE .....	12



## **1.0 CLOSURE PLAN**

### **1.1 General**

This Closure Plan has been prepared on behalf of Rancho Viejo Waste Management for the Pescadito Environmental Resource Center (PERC) pursuant to requirements as set forth in 30 TAC §330.63(h) and §330.457, 330.459, and 330.461. In accordance with §330.457(f)(1), a copy of the closure plan will be placed in the Site operating record. The PERC is located in Webb County, Texas. Initially, PERC will consist of two solid waste landfill disposal units. Both units will accept Type 1 Municipal Solid Waste (MSW) and non-hazardous industrial waste (NHIW). PERC may also construct and operate the following facilities as the need develops:

- Liquid Waste Solidification Unit
- Citizen Convenience Center including recyclables collection
- Leachate, Contaminated Water, and Gas Condensate Storage Facility
- Reusable Items Storage Area for inert and non-inert materials
- Storage Area for Large Items, White Goods, and Whole Tires

Consistent with §330.457(e) this closure plan addresses the final cover system design and installation, closure procedures, and the closure schedule. The final cover contour map and final cover details are presented in Appendix III-D.3.

### **1.2 Estimate of Maximum Inventory of Waste on Site**

The estimated maximum inventory of wastes ever on-site over the active life of the facility is projected to be the total volume(s) available through this permit. Site life calculations are provided in Part III, Appendix III-D.4. The projected mass of MSW and NHIW occurring landfill units at the time of facility closure is 12,553,940 tons in the MSW landfill occurring at time of closure. Other facilities that will not be constructed initially, but are planned during the active life of PERC will close in the following manner:

- Liquid Waste Solidification – Liquid waste in the unit at time of closure will be solidified onsite, with all liquids solidified and landfilled prior to final closure.

- Citizens Convenience Center – During operation MSW will be deposited in large containers (i.e., roll-offs) by the citizens. On a routine basis, when a container is full, the MSW will be transported to the active disposal area and landfilled. Recyclable materials that are separated will be removed from the site for recycling prior to final closure. If recycling is not practicable, the materials may be disposed in the landfill. Therefore, there will be little or no waste at the Citizens Convenience Center at the time of closure, but any waste that is present will be disposed in the landfill.
- Contaminated Water – The leachate and contaminated water storage will remain active during the post-closure period since it will likely be necessary to handle some leachate and landfill gas condensate. Any liquids remaining in the storage facility will be removed and properly disposed prior to the end of the post-closure period. Since liquid volumes will be periodically reduced, it is projected that no more than 10,000 gallons of contaminated water will require disposal at when the contaminated water storage facility is decommissioned.
- Reusable Items will be either used on site, or removed from the site, or landfilled prior to closing.
- Large items, white goods, and whole tires will be removed from the site prior to closing and appropriately disposed.

### **1.3 Estimate of Largest Area Requiring Final Cover**

The landfill includes an area of 72.33 acres (plan area). The landfill will be constructed in cells (or parts of a cell) and may be closed in sections. The size of each closure area will vary depending on the geometry of the filled area that needs to be closed. However, in generally once a section of the landfill that is large enough in area to make cover installation practical has been filled to the permitted top of waste and daily/intermediate cover grades, cover construction will commence for that section. Closure will include grading as needed, construction of surface water control features, and installation erosion controls (e.g., surface