

**Part III
Attachment III-J**

COST ESTIMATES FOR CLOSURE AND POST-CLOSURE CARE

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

PESCADITO
ENVIRONMENTAL RESOURCE CENTER

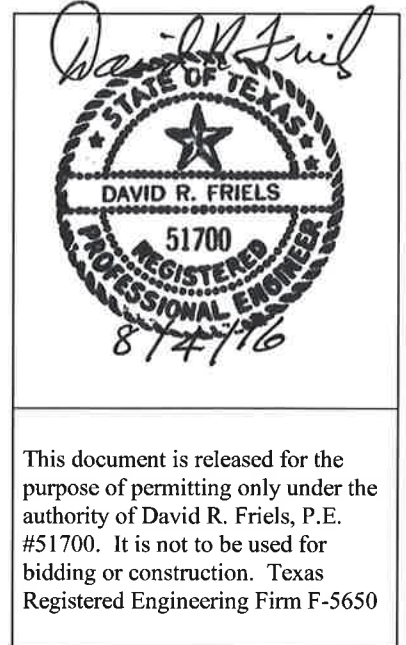
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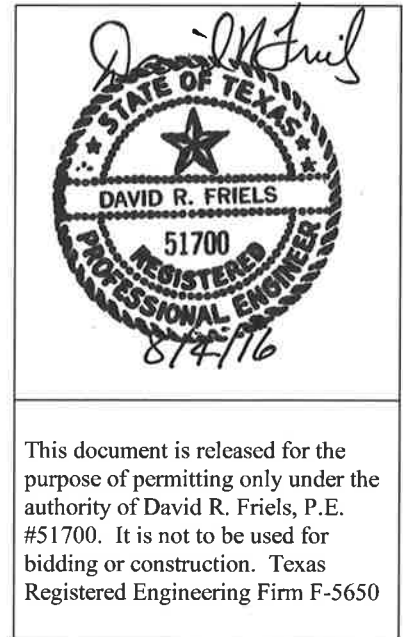
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Closure and Post-Closure Care Cost Estimates



1.0 INTRODUCTION

The cost estimate for closure and post-closure care of the Pescadito Environmental Resource Center (PERC) has been prepared consistent with the requirements of Title 30, Chapter 330, Subchapter L. The purpose of this attachment is to provide written cost estimates for a third party to close the largest waste area of the landfill that could potentially be open and to conduct post-closure care activities in accordance with the facilities approved Closure and Post-Closure Care Plans and consistent with §330.503 and 507. Additionally, costs are included for closure of the liquid waste solidification unit and the citizen convenience center in accordance with §330.505. Costs are also provided for decommissioning and closure of the contaminated water storage facility once it is no longer required. A copy of the approved Attachment III-J, Closure and Post-Closure Care Cost Estimates will be placed in the Site Operating Record prior to receipt of waste.

The landfill waste disposal area is divided into north and south units with areas of 320.5 and 340.2 acres, respectively. The total permitted waste disposal area is 660.7 acres and permitted solid waste volume is 223,316,800 cubic yards (solid waste and daily cover). The projected solid waste capacity is 195,960,492 tons. The facility is located in an arid climate and has a permitted alternate final cover consisting of the following (from top down):

Final Cover Layer	Class 1 Cells	Non-Class 1 Cells
Topsoil/vegetation	7 inches	7 inches
Soil evapotranspiration (storage)	30 inches	30 inches
Geosynthetic drain	Required	Not required
40 mil LLDPE geomembrane	Required	Not required
Intermediate cover soil	12 inches	12 inches

The liquid solidification unit and citizen convenience center will require closure but will not impact post-closure care costs.

APPENDIX III-J.1

CLOSURE AND POST-CLOSURE CARE COST ESTIMATES

INITIAL SUBMITTAL MARCH 2015

REVISED SEPTEMBER 2015

REVISED AUGUST 2016

TOTAL CLOSURE AND POST-CLOSURE CARE COSTS			
	Closure	Post-Closure	Total
Landfill Unit	\$9,444,252	\$6,025,800	\$15,470,052
Liquid Solidification Unit and Citizens Convenience Center	\$40,994		
TOTAL:	\$9,485,246	\$6,025,800	\$15,511,046

Note: All calculations are carried to full decimal values but numbers are shown rounded.

Closure Costs

Pescadito Environmental Resource Center

Permitted Waste Area: Acres = 660.7 Square Feet = 28,780,092

Largest Area to be closed: Acres = 88 Square Feet = 3,833,280

Item Description	Unit	Unit Cost	Quantity	Cost
Engineering				
Surveying Permitted Area, 660.7 Acres	acre	\$ 45.00	660.7	\$ 29,732
Evaluations, Plans, and Specifications	acre	\$ 310	88	\$ 27,280
CQA (survey, inspection & testing)	acre	\$ 5,500	88	\$ 484,000
Closure Certification, per event	LS	\$ 9,500	1	\$ 9,500
Total Engineering Costs				\$ 550,512
Construction				
7" Erosion Layer, complete in place	cy	\$ 5.00	82,817.78	\$ 414,089
30" Infiltration Layer, complete in place	cy	\$ 3.00	354,933.33	\$ 1,064,800
40 Mil LLDPE Textured	SF	\$ 0.50	3,833,280.00	\$ 1,916,640
Geosynthetic Drainage Layer	SF	\$ 0.60	3,833,280.00	\$ 2,299,968
General Fill, 1 foot, complete in place	cy	\$ 3.00	141,973	\$ 425,920
Seeding & Vegetation	acre	\$ 1,750.00	88	\$ 154,000
Drainage and Storm Water Control	acre	\$ 2,600.00	88	\$ 228,800
LFG Control System	acre	\$ 15,000.00	88	\$ 1,320,000
Liquid Solidification & Transport	cy	\$ 18.50	1,800	\$ 33,300
Backfill Liquid Solidification Unit	cy	\$ 3.00	1,800	\$ 5,400
Loading & Disposing Materials from Convenience Center at Landfill	Trip	\$ 165.00	10	\$ 1,650
Steam Cleaning Convenience Center	LS	\$ 1,000.00	1	\$ 1,000
Close Contaminated Water Storage	LS	\$ 5,000.00	1	\$ 5,000
Sub-Total Construction Costs				\$ 7,870,567
Contingency		10%		\$ 787,057
Contract Performance Bond		2%		\$ 157,411
TCEQ Contract Admin/Legal Fees		1%		\$ 78,706
Sub-Total Contingency & Admin Costs				\$ 1,023,174
Total Construction Costs				\$ 8,893,741
TOTAL CLOSURE COSTS:				\$ 9,444,252

Notes:

1. Surveying costs is based on 660.7 ac permit area, while other costs are based on closure area
2. Geomembrane and geosynthetic drain will be used only over Class 1 cells. Cover will utilize onsite soil.
3. Vegetation includes watering until vegetation is established
4. Storm Water Control includes construction of storm water storage pond
5. Assume materials from liquid stabilization and citizen convenience center will be disposed in landfill
6. Contaminated water storage will be closed and decommissioned during post-closure period

CBI

Revised August 2016