



Florida Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-632-7600

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Mimi Drew
Secretary

Transmitted electronically only:
dan.gray@mymanatee.org

Mr. Daniel T. Gray, Director Utilities Department
Manatee County Utilities
4410 66th St. West
Bradenton, FL 34210

November 9, 2010

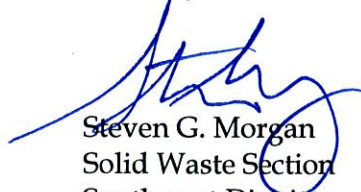
RE: Lena Road Landfill
Financial Assurance Cost Estimates
Pending Permit No.: 39884-018-SO/01
Manatee County, WACS No. 44795

Dear Mr. Gray:

This letter is to acknowledge receipt of the revised cost estimates dated October 1, 2010 (received October 7, 2010), prepared by PBS&J, for closure and long-term care of the Lena Road Landfill. The cost estimates received on October 7, 2010 (total for closure \$35,227,281.45 and long-term care \$442,893.74/year x 30 years= \$13,286,812.26), are **APPROVED for 2010**. The next annual update (revised or inflation-adjusted estimates) is due no later than **September 1, 2011**.

A copy of these estimates will be forwarded to Mr. Fred Wick, Solid Waste Section, FDEP, 2600 Blair Stone Road, Tallahassee, Florida 32399-2407. Please work with him directly to assess the facility's compliance with the funding mechanism requirements of Rule 62-701.630, F.A.C. If you have any questions, you may contact me at (813) 632-7600 ext. 385.

Sincerely,



Steven G. Morgan
Solid Waste Section
Southwest District

Attachment

sgm

cc: Mike Gore, Manatee County Solid Waste Operations Manager, mike.gore@mymanatee.org
Jeanne Detweiler, Manatee County Solid Waste, jeanne.detweiler@mymanatee.org
Mr. Joseph Miller, P.E., PBS&J, JLMiller@pbsj.com
Fred Wick/Frank Hornbrook, FDEP, Tallahassee (via email)
Susan Pelz, P.E., FDEP Tampa (via email)
Steve Morgan, FDEP Tampa (via email)

Print Form

Reset Form



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(28), F.A.C.
Form Title: Closure Cost Estimating Form
For Solid Waste Facilities
Effective Date: January 6, 2010
Incorporated in Rule 62-701.630(3), F.A.C.

CLOSURE COST ESTIMATING FORM FOR SOLID WASTE FACILITIES

Date of DEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: Manatee County Lena Road Class I Landfill WACS ID: SWD - 41-44795
Permit Application or Consent Order No.: 39884-018-SO/01 Expiration Date: _____
Facility Address: 3333 Lena Road, Bradenton, FL 34211
Permittee or Owner/Operator: Manatee County Government - Utilities Department
Mailing Address: 3333 Lena Road, Bradenton, FL 34211

Latitude: 27° 28' 10" Longitude: 82° 26' 35"
Coordinate Method: US State Plane Datum: NAD 1983 (90)
Collected by: Patrick McCormack, PSM Company/Affiliation PBS&J

Solid Waste Disposal Units Included in Estimate:

Phase / Cell	Acres	Date Unit Began Accepting Waste	Active Life of Unit From Date of Initial Receipt of Waste	If active: Remaining life of unit	If closed: Date last waste received	If closed: Official date of closing
Stage I (30 acres w/final cap)	132	1972	68	30		
Stage III	66	2004	10	4		
Stage II	118	2014	26	26		

Total disposal unit acreage included in this estimate: Closure: 286 Long-Term Care: 316

Facility type: Class I Class III C&D Debris Disposal
(Check all that apply) Other: _____

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check type)

- Letter of Credit* Insurance Certificate Escrow Account
- Performance Bond* Financial Test Form 29 (FA Deferral)
- Guarantee Bond* Trust Fund Agreement

* - Indicates mechanisms that require the use of a Standby Trust Fund Agreement

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 07 2010
SOUTHWEST DISTRICT TAMPA

Northwest District 160 Government Center Pensacola, FL 32502-5794 850-595-8360	Northeast District 7825 Baymeadows Way, Ste. 8200 Jacksonville, FL 32256-7590 904-807-3300	Central District 3319 Maguire Blvd., Ste. 232 Orlando, FL 32803-3767 407-894-7555	Southwest District 13051 N. Telecom Pky. Temple Terrace, FL 33637 813-632-7600	South District 2295 Victoria Ave., Ste. 364 Fort Myers, FL 33901-3881 239-332-6975	Southeast District 400 N. Congress Ave., Ste. 200 West Palm Beach, FL 33401 561-681-6600
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III. ESTIMATE ADJUSTMENT

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code, (F.A.C.) sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate adjustment below.

(a) Inflation Factor Adjustment

(b) Recalculated or New Cost Estimates

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste website www.dep.state.fl.us/waste/categories/swfr or call the Financial Coordinator at (850) 245-8706.

This adjustment is based on the Department approved closing cost estimate dated: _____

Latest Department Approved Closing Cost Estimate:		x		=	
			Current Year Inflation Factor, e.g. 1.02		Inflation Adjusted Closing Cost Estimate:
_____			_____		_____

This adjustment is based on the Department approved long-term care cost estimate dated: _____

Latest Department Approved Annual Long-Term Care Cost Estimate:		x		=	
			Current Year Inflation Factor, e.g. 1.02		Inflation Adjusted Annual Long-Term Care Cost Estimate:
_____			_____		_____
			Number of Years of Long Term Care Remaining:	x	_____
			Inflation Adjusted Long-Term Care Cost Estimate:	=	_____

Signature by: Owner/Operator Engineer (check what applies)

Signature

Address

Name & Title

City, State, Zip Code

Date

E-Mail Address

Telephone Number

IV. ESTIMATED CLOSING COST (check what applies)

Recalculated Cost Estimate

New Facility Cost Estimate

Notes: 1. Cost estimates for the time period when the extent and manner of landfill operation makes closing most exp

2. Cost estimate must be certified by a professional engineer.

3. Cost estimates based on third party suppliers of material, equipment and labor at fair market value.

4. In some cases, a price quote in support of individual item estimates may be required.

Description	Unit	Number of Units	Cost / Unit	Total Cost
1. Proposed Monitoring Wells (Do not include wells already in existence.)				
	EA			
Subtotal Proposed Monitoring Wells:				
2. Slope and Fill (bedding layer between waste and barrier layer):				
Excavation	CY			
Placement and Spreading	CY	462,000	\$1.88	\$868,560.00
Compaction	CY	462,000	\$0.64	\$295,680.00
Off-Site Material	CY	462,000	\$2.00	\$924,000.00
Delivery	CY	462,000	\$2.00	\$924,000.00
Subtotal Slope and Fill:				\$3,012,240.00
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY			
Synthetics - 40 mil	SY	1,384,231	\$4.05	\$5,606,172.00
Synthetics - GCL	SY			
Synthetics - Geonet	SY	1,384,231	\$7.20	\$9,966,528.00
Synthetics - Other (explain)				
Subtotal Cover Material:				\$15,572,700.00
4. Top Soil Cover:				
Off-Site Material	CY	923,000	\$2.00	\$1,846,000.00
Delivery	CY	923,000	\$2.00	\$1,846,000.00
Spread	CY	923,000	\$1.88	\$1,735,240.00
Subtotal Top Soil Cover:				\$5,427,240.00
5. Vegetative Layer				
Sodding	SY	1,384,231	\$1.50	\$2,076,360.00
Hydroseeding	AC			
Fertilizer	AC			
Mulch	AC			
Other (explain)				
Subtotal Vegetative Layer:				\$2,076,360.00
6. Stormwater Control System:				
Earthwork	CY			
Grading	SY			
Piping	LF	18,900	\$65.00	\$1,228,500.00
Ditches	LF			
Berms	LF			
Control Structures	EA	216	\$2,400.00	\$518,400.00
Other (explain)				
Subtotal Stormwater Control System:				\$1,746,900.00

Description	Unit	Number of Units	Cost / Unit	Total Cost
7. Passive Gas Control:				
Wells	EA	_____	_____	_____
Pipe and Fittings	LF	_____	_____	_____
Monitoring Probes	EA	_____	_____	_____
NSPS/Title V requirements	LS	1	_____	_____
Subtotal Passive Gas Control:				_____
8. Active Gas Extraction Control:				
Traps	EA	_____	_____	_____
Sumps	EA	_____	_____	_____
Flare Assembly	EA	_____	_____	_____
Flame Arrestor	EA	_____	_____	_____
Mist Eliminator	EA	_____	_____	_____
Flow Meter	EA	_____	_____	_____
Blowers	EA	_____	_____	_____
Collection System	LF	_____	_____	_____
Other (explain) <u>See attached</u>	_____	1	\$3,618,140.00	\$3,618,140.00
Subtotal Active Gas Extraction Control:				\$3,618,140.00
9. Security System:				
Fencing	LF	_____	_____	_____
Gate(s)	EA	_____	_____	_____
Sign(s)	EA	_____	_____	_____
Subtotal Security System:				_____
10. Engineering:				
Closure Plan Report	LS	1	\$210,000.00	\$210,000.00
Certified Engineering Drawings	LS	1	\$265,000.00	\$265,000.00
NSPS/Title V Air Permit	LS	1	\$40,000.00	\$40,000.00
Final Survey	LS	1	\$25,000.00	\$25,000.00
Certification of Closure	LS	1	\$15,000.00	\$15,000.00
Other (explain) _____	_____	_____	_____	_____
Subtotal Engineering:				\$555,000.00

Description	Hours	Cost / Hour	Hours	Cost / Hour	Total Cost
11. Professional Services					
	<u>Contract Management</u>		<u>Quality Assurance</u>		
P.E. Supervisor	400	\$150.00	400	\$150.00	\$120,000.00
On-Site Engineer	2,000	\$120.00	2,000	\$120.00	\$480,000.00
Office Engineer	400	\$100.00	400	\$100.00	\$80,000.00
On-Site Technician	_____	_____	2,000	\$80.00	\$160,000.00
Other (explain) _____	_____	_____	_____	_____	_____

Description	Unit	Number of Units	Cost / Unit	Total Cost
Quality Assurance Testing	LS	1	\$115,469.00	\$115,469.00
Subtotal Professional Services:				\$955,469.00

V. ANNUAL COST FOR LONG-TERM CARE

See 62-701.600(1)a.1., 62-701.620(1), 62-701.630(3)a. and 62-701.730(11)b. F.A.C. for required term length. For landfills certified closed and Department accepted, enter the remaining long-term care length as "Other" and provide years remaining. (Check Term Length) 5 Years 20 Years 30 Years Other, ___ Years

- Notes: 1. Cost estimates must be certified by a professional engineer.
 2. Cost estimates based on third party suppliers of material, equipment and labor at fair market value.
 3. In some cases, a price quote in support of individual item estimates may be required.

All items must be addressed. Attach a detailed explanation for all entries left blank.

Description	Sampling Frequency (Events / Year)	Number of Wells	(Cost / Well) / Event	Annual Cost
1. Groundwater Monitoring [62-701.510(6), and (8)(a)]				
Monthly	12	28	\$25.00	\$8,400.00
Quarterly	4			
Semi-Annually	2	29	\$395.00	\$22,910.00
Annually	1			
Subtotal Groundwater Monitoring:				\$31,310.00
2. Surface Water Monitoring [62-701.510(4), and (8)(b)]				
Monthly	12			
Quarterly	4			
Semi-Annually	2	2	\$690.00	\$2,760.00
Annually	1			
Subtotal Surface Water Monitoring:				\$2,760.00
3. Gas Monitoring [62-701.400(10)]				
Monthly	12			
Quarterly	4	20	\$70.00	\$5,600.00
Semi-Annually	2			
Annually	1			
Subtotal Gas Monitoring:				\$5,600.00
4. Leachate Monitoring [62-701.510(5), (6)(b) and 62-701.510(8)c]				
Monthly	12			
Quarterly	4			
Semi-Annually	2			
Annually	1	4	\$1,184.00	\$4,736.00
Other (explain) _____				
Subtotal Leachate Monitoring:				\$4,736.00

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. Leachate Collection/Treatment Systems Maintenance				
<u>Maintenance</u>				
Collection Pipes	LF	35,176	\$0.63	\$22,160.88
Sumps, Traps	EA	42	\$100.00	\$4,200.00
Lift Stations	EA	4	\$150.00	\$600.00
Cleaning	LS	1	\$1,000.00	\$1,000.00
Tanks	EA			

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. (continued)				
<u>Impoundments</u>				
Liner Repair	SY	_____	_____	_____
Sludge Removal	CY	_____	_____	_____
<u>Aeration Systems</u>				
Floating Aerators	EA	_____	_____	_____
Spray Aerators	EA	_____	_____	_____
<u>Disposal</u>				
Off-site (Includes transportation and disposal)	1000 gallon	<u>3,677</u>	<u>\$4.08</u>	<u>\$15,002.16</u>
Subtotal Leachate Collection / Treatment Systems Maintenance:				<u>\$42,963.04</u>
6. Groundwater Monitoring Well Maintenance				
Monitoring Wells	LF	<u>1</u>	<u>\$500.00</u>	<u>\$500.00</u>
Replacement	EA	<u>1</u>	<u>\$500.00</u>	<u>\$500.00</u>
Abandonment	EA	<u>1</u>	<u>\$500.00</u>	<u>\$500.00</u>
Subtotal Groundwater Monitoring Well Maintenance:				<u>\$1,500.00</u>
7. Gas System Maintenance				
Piping, Vents	LF	<u>100</u>	<u>\$60.00</u>	<u>\$6,000.00</u>
Blowers	EA	_____	_____	_____
Flaring Units	EA	<u>1</u>	<u>\$25,000.00</u>	<u>\$25,000.00</u>
Meters, Valves	EA	_____	_____	_____
Compressors	EA	_____	_____	_____
Flame Arrestors	EA	_____	_____	_____
Operation	LS	<u>1</u>	<u>\$60,000.00</u>	<u>\$60,000.00</u>
Subtotal Gas System Maintenance:				<u>\$91,000.00</u>
8. Landscape Maintenance				
Mowing	AC	<u>350</u>	<u>\$260.00</u>	<u>\$91,000.00</u>
Fertilizer	AC	_____	_____	_____
Subtotal Landscape Maintenance:				<u>\$91,000.00</u>
9. Erosion Control and Cover Maintenance				
Sodding	SY	<u>500</u>	<u>\$1.85</u>	<u>\$925.00</u>
Regrading	AC	<u>2</u>	<u>\$500.00</u>	<u>\$1,000.00</u>
Liner Repair	SY	<u>25</u>	<u>\$100.00</u>	<u>\$2,500.00</u>
Clay	CY	_____	_____	_____
Subtotal Erosion Control and Cover Maintenance:				<u>\$4,425.00</u>
10. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	<u>1</u>	<u>\$6,000.00</u>	<u>\$6,000.00</u>
Subtotal Storm Water Management System Maintenance:				<u>\$6,000.00</u>
11. Security System Maintenance				
Fences	LS	<u>1</u>	<u>\$500.00</u>	<u>\$500.00</u>
Gate(s)	EA	<u>1</u>	<u>\$500.00</u>	<u>\$500.00</u>
Sign(s)	EA	<u>1</u>	<u>\$200.00</u>	<u>\$200.00</u>
Subtotal Security System Maintenance:				<u>\$1,200.00</u>

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
12. Utilities	LS	<u>1</u>	<u>\$23,000.00</u>	<u>\$23,000.00</u>
			Subtotal Utilities:	<u>\$23,000.00</u>
13. Leachate Collection/Treatment Systems Operation				
<u>Operation</u>				
P.E. Supervisor	HR	<u>25</u>	<u>\$150.00</u>	<u>\$3,750.00</u>
On-Site Engineer	HR	<u>100</u>	<u>\$100.00</u>	<u>\$10,000.00</u>
Office Engineer	HR			
OnSite Technician	HR	<u>250</u>	<u>\$80.00</u>	<u>\$20,000.00</u>
Materials	LS	<u>1</u>	<u>\$12,000.00</u>	<u>\$12,000.00</u>
			Subtotal Leachate Collection/Treatment Systems Operation:	<u>\$45,750.00</u>
14. Administrative				
P.E. Supervisor	HR	<u>25</u>	<u>\$150.00</u>	<u>\$3,750.00</u>
On-Site Engineer	HR	<u>100</u>	<u>\$100.00</u>	<u>\$10,000.00</u>
Office Engineer	HR			
OnSite Technician	HR	<u>250</u>	<u>\$80.00</u>	<u>\$20,000.00</u>
Other _____	_____	_____	_____	_____
			Subtotal Administrative:	<u>\$33,750.00</u>
			Subtotal of 1-14 Above:	<u>\$384,994.04</u>
15. Contingency	<u>5</u>	% of Subtotal of 1-14 Above		<u>\$19,249.70</u>
			Subtotal Contingency:	<u>\$19,249.70</u>

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
16. Site Specific Costs				
DEP Monthly/Quarterly/Annual Report	Each	<u>1</u>	<u>\$30,000.00</u>	<u>\$30,000.00</u>
Long-term Care Permit Renewal	Each	<u>0.1</u>	<u>\$50,000.00</u>	<u>\$5,000.00</u>
Title V Surface Emission Monitoring	Each	<u>1</u>	<u>\$3,650.00</u>	<u>\$3,650.00</u>
			Subtotal Site Specific Costs:	<u>\$38,650.00</u>

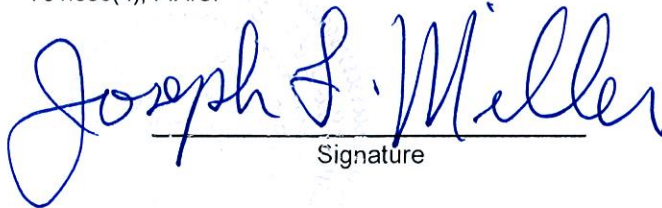
ANNUAL LONG-TERM CARE COST (\$ / YEAR): \$442,893.74

Number of Years of Long-Term Care: 30

TOTAL LONG-TERM CARE COST (\$): \$13,286,812.26

VI. CERTIFICATION BY ENGINEER

This is to certify that the Cost Estimates pertaining to the engineering features of this solid waste management facility have been examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and/or long-term care of the facility and comply with the requirements of Rule 62-701.630 F.A.C. and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.


Signature

PBS&J, 482 South Keller Road
Mailing Address

Joseph L. Miller, Project Manager
Name and Title (please type)

Orlando, Florida 32810
City, State, Zip Code

October 1, 2010
Date

jlmiller@pbsj.com
E-Mail address (if available)

39177
Florida Registration Number
(please affix seal)

407-806-4153
Telephone Number

VII. SIGNATURE BY OWNER/OPERATOR

Signature of Applicant

4410 66th Street West
Mailing Address

Daniel T. Gray, Director
Name and Title (please type)

Bradenton, FL 34210
City, State, Zip Code

dan.gray@mymanatee.org
E-Mail address (if available)

941-792-8811
Telephone Number