



# FLORIDA DEPARTMENT OF Environmental Protection

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

**Ron DeSantis**  
Governor

**Jeanette Nuñez**  
Lt. Governor

**Noah Valenstein**  
Secretary

June 3, 2021

Mr. Robert Shankle  
Solid Waste Division Manager  
Manatee County Utilities  
3333 Lena Road  
Bradenton, FL 34211  
[robert.shankle@mymanatee.org](mailto:robert.shankle@mymanatee.org)

Re: Manatee County Lena Road Class I Landfill  
Detailed Closure Cost Estimate Approval  
Permit No. 39884-021-SO-01  
WACS No: 44795

Dear Mr. Shankle:

This letter is to acknowledge receipt of the subject facility's updated detailed closure and long-term care cost estimate dated March 22, 2021 and received March 22, 2021. The cost estimate was prepared by SCS Engineers for Manatee County. The recalculated estimate was updated in accordance with Specific Condition 2.A.5 of the referenced permit as part of the required 5-year submittal. The following cost estimate received on March 22, 2021 is **approved**:

Closing – \$61,473,651.84  
Annual Long-term care – \$678,584.22  
Total Long-term care – \$20,357,526.64 for 30 years

The next annual cost estimate update is due by March 1, 2022.

A copy of this estimate will be forwarded to the Financial Coordinator, FDEP, 2600 Blair Stone Road, MS 4565, Tallahassee, Florida 32399-2400. Please work with Tor Bejnar at (850) 245-8743 or [Tor.Bejnar@FloridaDEP.gov](mailto:Tor.Bejnar@FloridaDEP.gov) 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 (850) 850-245-8742.

Most information received or sent by the Department is public record and is placed in OCULUS, an electronic database. You can view this and other documents for this facility at the following link:

[http://appprod.dep.state.fl.us/WWW\\_WACS/Reports/SW\\_Facility\\_Docs.asp?wacsid=44795](http://appprod.dep.state.fl.us/WWW_WACS/Reports/SW_Facility_Docs.asp?wacsid=44795)

Mr. Robert Shankle  
June 3, 2021  
Page 2 of 2

Sincerely,



Philip J. Ciaravella  
Solid Waste Section  
Permitting and Compliance Assistance Program

Enclosure: Cost Estimate Form for Manatee County Lena Road Class I LF

cc:

Shane Fischer, P.E

[sfischer@scsengineers.com](mailto:sfischer@scsengineers.com)

Emily Wargo

[Emily.Wargo@FloridaDEP.gov](mailto:Emily.Wargo@FloridaDEP.gov)

Steve Morgan

[Steve.Morgan@FloridaDEP.gov](mailto:Steve.Morgan@FloridaDEP.gov)

DEP Financial Assurance

[Financial.Assurance.Working.Group@FloridaDEP.gov](mailto:Financial.Assurance.Working.Group@FloridaDEP.gov)

Oculus File



# 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: SWD4144795  
Permit Application or Consent Order No.: 39884-021-SO-01 Expiration Date: 3/24/36  
Facility Address: 3333 Lena Road, Bradenton FL 34211  
Permittee or Owner/Operator: Manatee County Utilities Department  
Mailing Address: 3333 Lena Road, Bradenton FL 34211

Latitude: 27° 28' 10" Longitude: 82° 26' 35"  
Coordinate Method: State Plane NAD83 W Datum: NGVD29  
Collected by: Jeff Young, PSM Company/Affiliation: Pickett and Associates, Inc.

### 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-AC Closed)	132	1972	68	18		
Stage III	66	2004	10	0		
Stage II	118	2016	30	21		

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

Northwest District  
160 Government Center  
Pensacola, FL 32502-5794  
850-595-8360

Northeast District  
7825 Baymeadows Way, Ste. B200  
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

**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 Deflatory 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](http://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

3922 Coconut Palm Drive, Suite 102

Address

Shane R. Fischer, PE, Vice President

Name & Title

Tampa, FL 33619

City, State, Zip Code

3/22/2021

Date

sfischer@scsengineers.com

E-Mail Address

813-804-6714

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
<b>1. Proposed Monitoring Wells (Do not include wells already in existence.)</b>				
	EA	0	\$0.00	
Subtotal Proposed Monitoring Wells:				
<b>2. Slope and Fill (bedding layer between waste and barrier layer):</b>				
Excavation	CY	235,321	\$3.50	\$823,623.50
Placement and Spreading	CY			
Compaction	CY	235,321	\$0.41	\$95,305.01
Off-Site Material	CY	235,321	\$18.00	\$4,235,778.00
Delivery	CY			
Subtotal Slope and Fill:				\$5,154,706.50
<b>3. Cover Material (Barrier Layer):</b>				
Off-Site Clay	CY			
Synthetics - 40 mil	SY	1,411,921	\$3.27	\$4,612,903.43
Synthetics - GCL	SY			
Synthetics - Geonet	SY	1,411,921	\$4.87	\$6,876,220.81
Synthetics - Other (explain)				
Subtotal Cover Material:				\$11,489,124.25
<b>4. Top Soil Cover:</b>				
Off-Site Material	CY	941,284	\$22.50	\$21,178,890.00
Delivery	CY			
Spread	CY			
Subtotal Top Soil Cover:				\$21,178,890.00
<b>5. Vegetative Layer</b>				
Sodding	SY	1,411,921	\$2.70	\$3,812,200.20
Hydroseeding	AC			
Fertilizer	AC			
Mulch	AC			
Other (explain)				
Subtotal Vegetative Layer:				\$3,812,200.20
<b>6. Stormwater Control System:</b>				
Earthwork	CY			
Grading	SY			
Piping	LF	15,500	\$35.00	\$542,500.00
Ditches	LF			
Berms	LF	61,500	\$10.66	\$655,590.00
Control Structures	EA	177	\$1,466.10	\$259,500.05
Other (explain)	SF	17,700	\$36.00	\$637,200.00
Fabriform concrete				
Subtotal Stormwater Control System:				\$2,094,790.05

Description	Unit	Number of Units	Cost / Unit	Total Cost
<b>7. Passive Gas Control:</b>				
Wells	EA	_____	_____	_____
Pipe and Fittings	LF	_____	_____	_____
Monitoring Probes	EA	_____	_____	_____
NSPS/Title V requirements	LS	1	_____	_____
Subtotal Passive Gas Control:				_____
<b>8. Active Gas Extraction Control:</b>				
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 attachment)</u>	LS	1	\$2,537,400.00	\$2,537,400.00
Subtotal Active Gas Extraction Control:				\$2,537,400.00
<b>9. Security System:</b>				
Fencing	LF	_____	_____	_____
Gate(s)	EA	_____	_____	_____
Sign(s)	EA	_____	_____	_____
Subtotal Security System:				_____
<b>10. Engineering:</b>				
Closure Plan Report	LS	1	\$1,269,450.00	\$1,269,450.00
Certified Engineering Drawings	LS	1	\$224,850.00	\$224,850.00
NSPS/Title V Air Permit	LS	1	\$50,000.00	\$50,000.00
Final Survey	LS	1	\$478,480.00	\$478,480.00
Certification of Closure	LS	1	\$233,390.00	\$233,390.00
Other (explain) <u>Bidding</u>	LS	1	\$168,390.00	\$168,390.00
Subtotal Engineering:				\$2,424,560.00

Description	Hours	Cost / Hour	Hours	Cost / Hour	Total Cost
<b>11. Professional Services</b>					
	<u>Contract Management</u>		<u>Quality Assurance</u>		
P.E. Supervisor	640	\$179.00	160	\$179.00	\$143,200.00
On-Site Engineer	2,000	\$94.00	1,000	\$94.00	\$282,000.00
Office Engineer	400	\$77.00	1,200	\$77.00	\$123,200.00
On-Site Technician	2,400	\$73.00	9,600	\$73.00	\$876,000.00
Other (explain)	400	\$104.45	400	\$904.75	\$403,680.00
<u>Admin&amp;Reimbursables</u>					

Description	Unit	Number of Units	Cost / Unit	Total Cost
Quality Assurance Testing	LS	1	\$572,000.00	\$572,000.00
Subtotal Professional Services:				\$2,400,080.00

**Subtotal of 1-11 Above:** \$51,091,751.01

**12. Contingency**      10    % of Subtotal of 1-11 Above      \$5,109,175.10

Subtotal Contingency: \$5,109,175.10

**Estimated Closing Cost Subtotal:** \$56,200,926.11

<b>Description</b>	<b>Total Cost</b>
<b>13. Site Specific Costs</b>	
Mobilization	<u>\$5,109,175.10</u>
Waste Tire Facility	<u>\$42,000.00</u>
Materials Recovery Facility	<u></u>
Special Wastes	<u>\$121,550.63</u>
Leachate Management System Modification	<u></u>
Other (explain) _____	<u></u>
_____	
Subtotal Site Specific Costs:	<u>\$5,272,725.73</u>

**TOTAL ESTIMATED CLOSING COSTS (\$):** \$61,473,651.84

**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
<b>1. Groundwater Monitoring [62-701.510(6), and (8)(a)]</b>				
Monthly	12	_____	_____	_____
Quarterly	4	_____	_____	_____
Semi-Annually	2	26	\$1,221.39	\$63,512.28
Annually	1	_____	_____	_____
Subtotal Groundwater Monitoring:				\$63,512.28
<b>2. Surface Water Monitoring [62-701.510(4), and (8)(b)]</b>				
Monthly	12	_____	_____	_____
Quarterly	4	_____	_____	_____
Semi-Annually	2	2	\$1,221.39	\$4,885.56
Annually	1	_____	_____	_____
Subtotal Surface Water Monitoring:				\$4,885.56
<b>3. Gas Monitoring [62-701.400(10)]</b>				
Monthly	12	_____	_____	_____
Quarterly	4	_____	_____	_____
Semi-Annually	2	_____	_____	_____
Annually	1	1	\$142,813.00	\$142,813.00
Subtotal Gas Monitoring:				\$142,813.00
<b>4. Leachate Monitoring [62-701.510(5), (6)(b) and 62-701.510(8)c]</b>				
Monthly	12	_____	_____	_____
Quarterly	4	_____	_____	_____
Semi-Annually	2	_____	_____	_____
Annually	1	1	\$78,207.00	\$78,207.00
Other (explain) _____	_____	_____	_____	_____
Subtotal Leachate Monitoring:				\$78,207.00

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
<b>5. Leachate Collection/Treatment Systems Maintenance</b>				
<u>Maintenance</u>				
Collection Pipes	LF	38,633	\$0.16	\$6,181.28
Sumps, Traps	EA	_____	_____	_____
Lift Stations	EA	1	\$8,000.00	\$8,000.00
Cleaning	LS	1	_____	_____
Tanks	EA	_____	_____	_____



Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
<b>5. (continued)</b>				
<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>1</u>	<u>\$31,789.60</u>	<u>\$31,789.60</u>
Subtotal Leachate Collection / Treatment Systems Maintenance:				<u>\$45,970.88</u>
<b>6. Groundwater Monitoring Well Maintenance</b>				
Monitoring Wells	LF	<u>1</u>	<u>\$1,000.00</u>	<u>\$1,000.00</u>
Replacement	EA	_____	_____	_____
Abandonment	EA	_____	_____	_____
Subtotal Groundwater Monitoring Well Maintenance:				<u>\$1,000.00</u>
<b>7. Gas System Maintenance</b>				
Piping, Vents	LF	_____	_____	_____
Blowers	EA	_____	_____	_____
Flaring Units	EA	_____	_____	_____
Meters, Valves	EA	_____	_____	_____
Compressors	EA	_____	_____	_____
Flame Arrestors	EA	_____	_____	_____
Operation	LS	<u>1</u>	<u>\$43,800.00</u>	<u>\$43,800.00</u>
Subtotal Gas System Maintenance:				<u>\$43,800.00</u>
<b>8. Landscape Maintenance</b>				
Mowing	AC	<u>328.9</u>	<u>\$337.03</u>	<u>\$110,849.17</u>
Fertilizer	AC	_____	_____	_____
Subtotal Landscape Maintenance:				<u>\$110,849.17</u>
<b>9. Erosion Control and Cover Maintenance</b>				
Sodding	SY	<u>4.840</u>	<u>\$2.70</u>	<u>\$13,068.00</u>
Regrading	AC	<u>1</u>	<u>\$7,647.20</u>	<u>\$7,647.20</u>
Liner Repair	SY	<u>500</u>	<u>\$7.44</u>	<u>\$3,720.00</u>
Clay	CY	_____	_____	_____
Subtotal Erosion Control and Cover Maintenance:				<u>\$24,435.20</u>
<b>10. Storm Water Management System Maintenance</b>				
Conveyance Maintenance	LS	<u>1</u>	<u>\$8,750.00</u>	<u>\$8,750.00</u>
Subtotal Storm Water Management System Maintenance:				<u>\$8,750.00</u>
<b>11. Security System Maintenance</b>				
Fences	LS	<u>1</u>	<u>\$2,093.00</u>	<u>\$2,093.00</u>
Gate(s)	EA	<u>0.2</u>	<u>\$6,353.00</u>	<u>\$1,270.60</u>
Sign(s)	EA	_____	_____	_____
Subtotal Security System Maintenance:				<u>\$3,363.60</u>

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
<b>12. Utilities</b>	LS	<u>1</u>	<u>\$22,000.00</u>	<u>\$22,000.00</u>
			Subtotal Utilities:	<u>\$22,000.00</u>
<b>13. Leachate Collection/Treatment Systems Operation</b>				
<u>Operation</u>				
P.E. Supervisor	HR	<u>24</u>	<u>\$179.00</u>	<u>\$4,296.00</u>
On-Site Engineer	HR	<u>0</u>	<u></u>	<u></u>
Office Engineer	HR	<u>0</u>	<u></u>	<u></u>
OnSite Technician	HR	<u>480</u>	<u>\$94.00</u>	<u>\$45,120.00</u>
Materials	LS	<u>1</u>	<u></u>	<u></u>
			Subtotal Leachate Collection/Treatment Systems Operation:	<u>\$49,416.00</u>
<b>14. Administrative</b>				
P.E. Supervisor	HR	<u>12</u>	<u>\$179.00</u>	<u>\$2,148.00</u>
On-Site Engineer	HR	<u></u>	<u></u>	<u></u>
Office Engineer	HR	<u></u>	<u></u>	<u></u>
OnSite Technician	HR	<u>480</u>	<u>\$94.00</u>	<u>\$45,120.00</u>
Other _____	_____	_____	_____	_____
			Subtotal Administrative:	<u>\$47,268.00</u>
			<b>Subtotal of 1-14 Above:</b>	<u>\$646,270.69</u>
<b>15. Contingency</b>	<u>5</u>	% of Subtotal of 1-14 Above		<u>\$32,313.53</u>
			Subtotal Contingency:	<u>\$32,313.53</u>

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
<b>16. Site Specific Costs</b>				
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
			Subtotal Site Specific Costs:	_____

**ANNUAL LONG-TERM CARE COST (\$ / YEAR):** \$678,584.22

Number of Years of Long-Term Care: 30

**TOTAL LONG-TERM CARE COST (\$):** \$20,357,526.64

**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

Shane R. Fischer, PE, Vice President  
\_\_\_\_\_  
Name and Title (please type)

3/22/2021  
\_\_\_\_\_  
Date

58026  
\_\_\_\_\_  
Florida Registration Number  
(please affix seal)

3922 Coconut Palm Drive, Suite 102  
\_\_\_\_\_  
Mailing Address

Tampa, FL 33619  
\_\_\_\_\_  
City, State, Zip Code

sfischer@scsengineers.com  
\_\_\_\_\_  
E-Mail address (if available)

813-804-6714  
\_\_\_\_\_  
Telephone Number

**VII. SIGNATURE BY OWNER/OPERATOR**

  
\_\_\_\_\_  
Signature of Applicant

Robert Shankle, Solid Waste Manager  
\_\_\_\_\_  
Name and Title (please type)

robert.shankle@mymanatee.org  
\_\_\_\_\_  
E-Mail address (if available)

3333 Lena Road  
\_\_\_\_\_  
Mailing Address

Bradenton, FL 34211  
\_\_\_\_\_  
City, State, Zip Code

941-748-5543 x5275  
\_\_\_\_\_  
Telephone Number