



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

December 17, 2019

Mr. Tony Perry, Director of Solid Waste
Hardee County Solid Waste Department
685 Airport Road
Wauchula, Florida, 33873
tony.perry@hardeecounty.net

Re: Hardee County Landfill
Detailed Closure Cost Estimate Approval
Permit No.38414-016-SO-01, Hardee County
WACS No: 40612

Dear Mr. Perry:

This letter is to acknowledge receipt of the subject facility's recalculated detailed closure and long-term care cost estimates dated September 6, 2019 and received September 6, 2019 as Attachment E of the Five-Year Submittal for the referenced permit. These cost estimates were prepared by SCS Engineers for the Hardee County Solid Waste Department. The recalculated estimate(s) were submitted to comply with Rule 62-701.630(4)(b), Florida Administrative Code, (F.A.C.). The following cost estimates received on September 6, 2019, are **APPROVED for 2020:**

Closing – \$3,652,070.89
Annual Long-term care – \$164,775.66
Total Long-term care – \$4,943,269.72 for 30 years

The next annual cost estimate update is due between July 1 and September 1, 2020.

A copy of these estimates 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@dep.state.fl.us 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=40612

Mr. Tony Perry
December 17, 2019
Page 2 of 2

Sincerely,




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

Enclosure: Cost Estimate Forms for Hardee County Class I Landfill

cc: Shane Fischer, P.E., SCS Engineers
Cory D. Dilmore, P.E.
Steve Morgan
DEP Financial Assurance
Oculus File

sfischer@scsengineers.com
Cory.Dilmore@FloridaDEP.gov
Steve.Morgan@FloridaDEP.gov



Attachment E
Financial Assurance Cost Estimate Report



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: Hardee County Landfill WACS ID: SWD/25/40612
 Permit Application or Consent Order No.: 38414-016-SO/01 Expiration Date: 11/8/2033
 Facility Address: 685 Airport Road, Wauchula, FL 33873
 Permittee or Owner/Operator: Hardee County
 Mailing Address: 685 Airport Road, Wauchula, FL 33873

Latitude: 27° 34' 17" Longitude: 81° 46' 58"
 Coordinate Method: USGS Mapping Datum: NAD 83/90 West Zone
 Collected by: Hardee Co Property Appraiser Company/Affiliation: SCS Engineers

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
Phase I	12.31	NA	NA	NA	10/26/2010	01/03/2012
Phase II Section I	6.29	05/01/2008	10/01/2019	1 month	NA	NA
Phase II Section II	6.20	05/1/2019	04/01/2045	26 years	NA	NA

Total disposal unit acreage included in this estimate: Closure: 12.49 Long-Term Care: 24.80

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

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

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

Shane R. Fischer, P.E.

Name & Title

Tampa, FL 33619

City, State, Zip Code

Date

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
1. Proposed Monitoring Wells (Do not include wells already in existence.)				
	EA	0	\$0.00	
Subtotal Proposed Monitoring Wells:				
2. Slope and Fill (bedding layer between waste and barrier layer):				
Excavation	CY	12,172	\$5.00	\$60,860.00
Placement and Spreading	CY	24,344	\$1.50	\$36,516.00
Compaction	CY	23,173	\$4.50	\$104,278.50
Off-Site Material	CY	23,173	\$12.00	\$278,076.00
Delivery	CY	0	\$0.00	
Subtotal Slope and Fill:				\$479,730.50
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY	0	\$0.00	
Synthetics - 40 mil	SY	76,685	\$4.69	\$359,652.65
Synthetics - GCL	SY	0	\$0.00	
Synthetics - Geonet	SY	76,685	\$6.36	\$487,716.60
Synthetics - Other (explain)		0	\$0.00	
Subtotal Cover Material:				\$847,369.25
4. Top Soil Cover:				
Off-Site Material	CY	46,689	\$15.50	\$723,679.50
Delivery	CY	0	\$0.00	
Spread	CY	0	\$0.00	
Subtotal Top Soil Cover:				\$723,679.50
5. Vegetative Layer				
Sodding	SY	73,033	\$2.60	\$189,885.80
Hydroseeding	AC	0	\$0.00	
Fertilizer	AC	0	\$0.00	
Mulch	AC	0	\$0.00	
Other (explain)		0	\$0.00	
Subtotal Vegetative Layer:				\$189,885.80
6. Stormwater Control System:				
Earthwork	CY	0	\$0.00	
Grading	SY	0	\$0.00	
Piping	LF	1,080	\$105.00	\$113,400.00
Ditches	LF			
Berms	LF			
Control Structures	EA	4	\$3,600.00	\$14,400.00
Other (explain) <u>Fabric-formed</u>	LF	2,210	\$18.00	\$39,780.00
<u>Concrete Lining</u>				
Subtotal Stormwater Control System:				\$167,580.00

Description	Unit	Number of Units	Cost / Unit	Total Cost
7. Passive Gas Control:				
Wells	EA	15	\$13,250.00	\$198,750.00
Pipe and Fittings	LF	0	\$0.00	
Monitoring Probes	EA	0	\$0.00	
NSPS/Title V requirements	LS	1	\$0.00	
Subtotal Passive Gas Control:				\$198,750.00
8. Active Gas Extraction Control:				
Traps	EA	0	\$0.00	
Sumps	EA	0	\$0.00	
Flare Assembly	EA	0	\$0.00	
Flame Arrestor	EA	0	\$0.00	
Mist Eliminator	EA	0	\$0.00	
Flow Meter	EA	0	\$0.00	
Blowers	EA	0	\$0.00	
Collection System	LF	0	\$0.00	
Other (explain) _____		0	\$0.00	
Subtotal Active Gas Extraction Control:				
9. Security System:				
Fencing	LF	0	\$0.00	
Gate(s)	EA	0	\$0.00	
Sign(s)	EA	0	\$0.00	
Subtotal Security System:				
10. Engineering:				
Closure Plan Report	LS	1	\$148,973.00	\$148,973.00
Certified Engineering Drawings	LS	1	\$27,161.00	\$27,161.00
NSPS/Title V Air Permit	LS	1	\$0.00	
Final Survey	LS	1	\$48,280.00	\$48,280.00
Certification of Closure	LS	1	\$29,315.00	\$29,315.00
Other (explain) _____				
Subtotal Engineering:				\$253,729.00

Description	Hours	Cost / Hour	Hours	Cost / Hour	Total Cost
11. Professional Services					
	<u>Contract Management</u>		<u>Quality Assurance</u>		
P.E. Supervisor	64	\$225.00	16	\$225.00	\$18,000.00
On-Site Engineer	200	\$150.00	100	\$150.00	\$45,000.00
Office Engineer	40	\$120.00	120	\$120.00	\$19,200.00
On-Site Technician	240	\$95.00	800	\$95.00	\$98,800.00
Other (explain) _____	40	\$80.00	40	\$80.00	\$6,400.00
Admin					

Description	Unit	Number of Units	Cost / Unit	Total Cost
Quality Assurance Testing	LS	1	\$24,980.00	\$24,980.00
Subtotal Professional Services:				\$212,380.00

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	_____	_____	_____
Quarterly	4	_____	_____	_____
Semi-Annually	2	9	\$689.43	\$12,409.74
Annually	1	_____	_____	_____
Subtotal Groundwater Monitoring:				\$12,409.74
2. Surface Water Monitoring [62-701.510(4), and (8)(b)]				
Monthly	12	_____	_____	_____
Quarterly	4	_____	_____	_____
Semi-Annually	2	1	\$689.43	\$1,378.86
Annually	1	_____	_____	_____
Subtotal Surface Water Monitoring:				\$1,378.86
3. Gas Monitoring [62-701.400(10)]				
Monthly	12	_____	_____	_____
Quarterly	4	4	\$1,200.00	\$19,200.00
Semi-Annually	2	_____	_____	_____
Annually	1	_____	_____	_____
Subtotal Gas Monitoring:				\$19,200.00
4. Leachate Monitoring [62-701.510(5), (6)(b) and 62-701.510(8)c]				
Monthly	12	_____	_____	_____
Quarterly	4	_____	_____	_____
Semi-Annually	2	_____	_____	_____
Annually	1	_____	_____	_____
Other (explain) _____	_____	_____	_____	_____
Subtotal Leachate Monitoring:				_____

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. Leachate Collection/Treatment Systems Maintenance				
<u>Maintenance</u>				
Collection Pipes	LF	16,290	\$0.56	\$9,122.40
Sumps, Traps	EA	0	_____	_____
Lift Stations	EA	0	_____	_____
Cleaning	LS	1	_____	_____
Tanks	EA	0.5	\$34,023.40	\$17,011.70

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. (continued)				
<u>Impoundments</u>				
Liner Repair	SY	<u>0</u>	<u>\$0.00</u>	
Sludge Removal	CY	<u>0</u>	<u>\$0.00</u>	
<u>Aeration Systems</u>				
Floating Aerators	EA	<u>0</u>	<u>\$0.00</u>	
Spray Aerators	EA	<u>0</u>	<u>\$0.00</u>	
<u>Disposal</u>				
Off-site (Includes transportation and disposal)	1000 gallon	<u>4,400</u>	<u>\$8.04</u>	<u>\$35,376.00</u>
Subtotal Leachate Collection / Treatment Systems Maintenance:				<u>\$61,510.10</u>
6. Groundwater Monitoring Well Maintenance				
Monitoring Wells	LF	<u>30</u>	<u>\$0.00</u>	
Replacement	EA	<u>1</u>	<u>\$2,250.00</u>	<u>\$2,250.00</u>
Abandonment	EA	<u>1</u>	<u>\$1,050.00</u>	<u>\$1,050.00</u>
Subtotal Groundwater Monitoring Well Maintenance:				<u>\$3,300.00</u>
7. Gas System Maintenance				
Piping, Vents	LF	<u>10</u>	<u>\$140.00</u>	<u>\$1,400.00</u>
Blowers	EA	<u>0</u>		
Flaring Units	EA	<u>0</u>		
Meters, Valves	EA	<u>0</u>		
Compressors	EA	<u>0</u>		
Flame Arrestors	EA	<u>0</u>		
Operation	LS	<u>1</u>		
Subtotal Gas System Maintenance:				<u>\$1,400.00</u>
8. Landscape Maintenance				
Mowing	AC	<u>24.8</u>	<u>\$255.64</u>	<u>\$6,339.87</u>
Fertilizer	AC	<u>0</u>		
Subtotal Landscape Maintenance:				<u>\$6,339.87</u>
9. Erosion Control and Cover Maintenance				
Sodding	SY	<u>2,420</u>	<u>\$2.60</u>	<u>\$6,292.00</u>
Regrading	AC	<u>0.248</u>	<u>\$7,260.00</u>	<u>\$1,800.48</u>
Liner Repair	SY	<u>50</u>	<u>\$11.04</u>	<u>\$552.00</u>
Clay	CY			
Subtotal Erosion Control and Cover Maintenance:				<u>\$8,644.48</u>
10. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	<u>1</u>	<u>\$2,350.00</u>	<u>\$2,350.00</u>
Subtotal Storm Water Management System Maintenance:				<u>\$2,350.00</u>
11. Security System Maintenance				
Fences	LS	<u>1</u>	<u>\$1,993.00</u>	<u>\$1,993.00</u>
Gate(s)	EA	<u>1</u>	<u>\$1,210.00</u>	<u>\$1,210.00</u>
Sign(s)	EA			
Subtotal Security System Maintenance:				<u>\$3,203.00</u>

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
12. Utilities	LS	1	\$15,000.00	\$15,000.00
			Subtotal Utilities:	\$15,000.00
13. Leachate Collection/Treatment Systems Operation				
<u>Operation</u>				
P.E. Supervisor	HR	24	\$165.00	\$3,960.00
On-Site Engineer	HR	0		
Office Engineer	HR	0		
OnSite Technician	HR	48	\$95.00	\$4,560.00
Materials	LS	1	\$0.00	
			Subtotal Leachate Collection/Treatment Systems Operation:	\$8,520.00
14. Administrative				
P.E. Supervisor	HR	12	\$165.00	\$1,980.00
On-Site Engineer	HR	0		
Office Engineer	HR	0		
OnSite Technician	HR	48	\$95.00	\$4,560.00
Other consulting	LS	0		
			Subtotal Administrative:	\$6,540.00
Subtotal of 1-14 Above:				\$149,796.05
15. Contingency	10	% of Subtotal of 1-14 Above		\$14,979.61
			Subtotal Contingency:	\$14,979.61

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
16. Site Specific Costs				
NA	0	0		
NA	0	0		
NA	0	0		
			Subtotal Site Specific Costs:	

ANNUAL LONG-TERM CARE COST (\$ / YEAR): \$164,775.66

Number of Years of Long-Term Care: 30


TOTAL LONG-TERM CARE COST (\$): \$4,943,269.72

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	Mailing Address
Shane R. Fischer, P.E.	3922 Coconut Palm Drive, Suite 102 Tampa, Florida 33619
Name and Title (please type)	City, State, Zip Code
	sfischer@scsengineers.com
Date	E-Mail address (if available)
58026	(813) 804-6714
Florida Registration Number (please affix seal)	Telephone Number

VII. SIGNATURE BY OWNER/OPERATOR

 Signature of Applicant	Mailing Address
Tony Perry, Director Solid Waste/Animal Control	Solid 685 Airport Road Wauchula, Florida 33873
Name and Title (please type)	City, State, Zip Code
tony.perry@hardeecounty.net	(863) 773-5089
E-Mail address (if available)	Telephone Number