



FLORIDA DEPARTMENT OF Environmental Protection

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

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

September 13, 2018

Transmitted via e-mail to: rsigmond@pascocountyfl.net

Mr. Robert Sigmond
Pasco County Utilities
19420 Central Blvd., Suite 219
Land O' Lakes, FL 34637

RE: West Pasco Class I Landfill
Pasco County
Recalculated Closing and
Long-Term Care (LTC) Cost Estimates Approval
Site Certification No.: PA87-23
WACS No: 45799

Dear Mr. Sigmond:

This letter is to acknowledge receipt of the subject facility's recalculated closing and LTC cost estimates dated August 27, 2018, and received August 31, 2018. The cost estimates were prepared by JMG Engineering, Inc., for the West Pasco Class I Landfill. The cost estimates provided closing and LTC costs for Cells A1, A2, A3, and A4 comprising 50 acres and for Cells SW1 and SW2 comprising 20 acres. The recalculated estimates were submitted to comply with Rule 62-701.630(4)(a), Florida Administrative Code, (F.A.C.). The following cost estimates received in the referenced document are **APPROVED for 2018:**

	<u>Cells A1, A2, A3, and A4</u>	<u>Cells SW1 and SW2</u>
Size	50 acres	20 acres
Closing Cost	\$10,921,326.98	\$5,478,519.44
Annual Long-Term Care Cost	\$320,962.95	\$228,151.57
Total Long-Term Care Cost (30 years)	\$9,628,888.50	\$6,844,547.10

The next annual cost estimate update is due between July 1 and September 1, 2019.

A copy of these estimates will be forwarded to the Financial Coordinator, FDEP, 2600 Blair Stone Road, MS 4565, Tallahassee, Florida 32399-2400. Please contact Susan Eldredge at

Mr. Robert Sigmond
September 13, 2018
Page 2

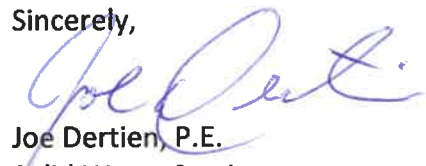
(850) 245-8740 or susan.f.eldredge@dep.state.fl.us directly to assess the facility's compliance with the funding mechanism requirements of Rule 62-701.630, F.A.C.

Most information received or sent by the Department is public record and is placed in OCULUS, an electronic database. You may 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=45799

If you have any questions, you may contact me at (850) 245-8735.

Sincerely,



Joe Dertien, P.E.
Solid Waste Section
Permitting and Compliance Assistance Program

Attachment: West Pasco Class I Landfill, Financial Assurance Closure and Long-Term Care Estimates, Disposal Cells A1, A2, A3, A4, SW1, and SW2, June 2018 (signed 8/27/18).

cc:

Jason Gorrie, P.E., JMG Engineering, Inc. jason@jmg-eng.com
Melissa Madden, FDEP Southwest District, Melissa.Madden@floridadep.gov
Steve Morgan, FDEP Southwest District, Steve.Morgan@florida dep.gov
Cory Dilmore, P.E., FDEP PCAP, Cory.Dilmore@dep.state.fl.us
Solid.Waste.Financial.Coordinator@dep.state.fl.us



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: West Pasco Class I Landfill - Ash Disposal Cells WACS ID: 45799

Permit Application or Consent Order No.: PA87-23 Expiration Date: _____

Facility Address: 14230 Hays Road, Spring Hill, FL 34610

Permittee or Owner/Operator: Pasco County Utilities

Mailing Address: same

Latitude: 28° 22' 30" Longitude: 82° 34' 00"

Coordinate Method: _____ Datum: _____

Collected by: _____ Company/Affiliation: _____

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
A1	10	Feb 1991	5.75			
A2	10	Dec 1996	6.50			
A3	10	May 2003	8.0			
A4	20	Jul 2011	6.83	11		

Total disposal unit acreage included in this estimate: Closure: 50 Long-Term Care: 50

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 32803-3787
407-894-7555

Southwest District
13051 N. Telecom Pkwy.
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 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:	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
Jason Gorrie, President

Name & Title

238 East Davis Blvd., Suite 206

Address

Tampa, FL 33606

City, State, Zip Code

6/12/2018

Date

jason@jmg-eng.com

E-Mail Address

(813) 605-0706

Telephone Number

☒ Recalculated 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.

DEP FORM 62-701.900(28)
Effective January 6, 2010

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) _____	_____	_____	_____	_____
Subtotal Active Gas Extraction Control:				_____
9. Security System:				
Fencing	LF	_____	_____	_____
Gate(s)	EA	_____	_____	_____
Sign(s)	EA	1	\$2,000.00	\$2,000.00
Subtotal Security System:				\$2,000.00
10. Engineering:				
Closure Plan Report	LS	1	\$120,000.00	\$120,000.00
Certified Engineering Drawings	LS	1	\$275,000.00	\$275,000.00
NSPS/Title V Air Permit	LS	1	_____	_____
Final Survey	LS	1	\$20,000.00	\$20,000.00
Certification of Closure	LS	1	\$5,000.00	\$5,000.00
Other (explain) _____	_____	_____	_____	_____
Subtotal Engineering:				\$420,000.00

Description	Hours	Cost / Hour	Hours	Cost / Hour	Total Cost
11. Professional Services					
	<u>Contract Management</u>		<u>Quality Assurance</u>		
P.E. Supervisor	640	\$150.00	640	\$150.00	\$192,000.00
On-Site Engineer	_____	_____	640	\$125.00	\$80,000.00
Office Engineer	320	\$125.00	320	\$125.00	\$80,000.00
On-Site Technician	_____	_____	_____	\$90.00	_____
Other (explain) _____	960	\$50.00	_____	_____	\$48,000.00
Admin Assistant	_____	_____	_____	_____	_____

Description	Unit	Number of Units	Cost / Unit	Total Cost
Quality Assurance Testing	LS	1	\$50,000.00	\$50,000.00
Subtotal Professional Services:				\$450,000.00

Subtotal of 1-11 Above: \$10,401,263.79

12. Contingency	<u>5</u>	% of Subtotal of 1-11 Above	<u>\$520,063.19</u>
		Subtotal Contingency:	\$520,063.19

Estimated Closing Cost Subtotal: \$10,921,326.98

Description	Total Cost
13. Site Specific Costs	
Mobilization	
Waste Tire Facility	
Materials Recovery Facility	
Special Wastes	
Leachate Management System Modification	
Other (explain) _____	

	Subtotal Site Specific Costs: _____

TOTAL ESTIMATED CLOSING COSTS (\$): \$10,921,326.98

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	20	\$350.00	\$14,000.00
Annually	1	_____	_____	_____
Subtotal Groundwater Monitoring:				\$14,000.00
2. Surface Water Monitoring [62-701.510(4), and (8)(b)]				
Monthly	12	_____	_____	_____
Quarterly	4	_____	_____	_____
Semi-Annually	2	_____	_____	_____
Annually	1	_____	_____	_____
Subtotal Surface Water Monitoring:				_____
3. Gas Monitoring [62-701.400(10)]				
Monthly	12	_____	_____	_____
Quarterly	4	_____	_____	_____
Semi-Annually	2	_____	_____	_____
Annually	1	_____	_____	_____
Subtotal Gas Monitoring:				_____
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) EA _____	1	1	\$350.00	\$350.00
TCLP Analysis _____				
Subtotal Leachate Monitoring:				\$350.00

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. Leachate Collection/Treatment Systems Maintenance				
<u>Maintenance</u>				
Collection Pipes	LF	_____	_____	_____
Sumps, Traps	EA	_____	_____	_____
Lift Stations	EA	_____	_____	_____
Cleaning	LS	1	\$9,000.00	\$9,000.00
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>1,286</u>	<u>\$70.00</u>	<u>\$90,020.00</u>
Subtotal Leachate Collection / Treatment Systems Maintenance:				<u>\$99,020.00</u>
6. Groundwater Monitoring Well Maintenance				
Monitoring Wells	LF	_____	_____	_____
Replacement	EA	<u>20</u>	<u>\$150.00</u>	<u>\$3,000.00</u>
Abandonment	EA	_____	_____	_____
Subtotal Groundwater Monitoring Well Maintenance:				<u>\$3,000.00</u>
7. Gas System Maintenance				
Piping, Vents	LF	_____	_____	_____
Blowers	EA	_____	_____	_____
Flaring Units	EA	_____	_____	_____
Meters, Valves	EA	_____	_____	_____
Compressors	EA	_____	_____	_____
Flame Arrestors	EA	_____	_____	_____
Operation	LS	<u>1</u>	_____	_____
Subtotal Gas System Maintenance:				_____
8. Landscape Maintenance				
Mowing	AC	<u>50</u>	<u>\$180.00</u>	<u>\$9,000.00</u>
Fertilizer	AC	_____	_____	_____
Subtotal Landscape Maintenance:				<u>\$9,000.00</u>
9. Erosion Control and Cover Maintenance				
Sodding	SY	<u>11,858</u>	<u>\$2.75</u>	<u>\$32,609.50</u>
Regrading	AC	<u>0.3</u>	<u>\$9,750.00</u>	<u>\$2,925.00</u>
Liner Repair	SY	_____	_____	_____
Clay	CY	_____	_____	_____
Subtotal Erosion Control and Cover Maintenance:				<u>\$35,534.50</u>
10. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	<u>1</u>	<u>\$3,150.00</u>	<u>\$3,150.00</u>
Subtotal Storm Water Management System Maintenance:				<u>\$3,150.00</u>
11. Security System Maintenance				
Fences	LS	<u>1</u>	<u>\$1,210.00</u>	<u>\$1,210.00</u>
Gate(s)	EA	<u>2</u>	<u>\$40.00</u>	<u>\$80.00</u>
Sign(s)	EA	_____	_____	_____
Subtotal Security System Maintenance:				<u>\$1,290.00</u>

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
12. Utilities	LS	1	\$1,640.00	\$1,640.00
Subtotal Utilities:				\$1,640.00

13. Leachate Collection/Treatment Systems Operation

Operation

P.E. Supervisor	HR			
On-Site Engineer	HR			
Office Engineer	HR			
OnSite Technician	HR	2,080	\$35.00	\$72,800.00
Materials	LS	1		

Subtotal Leachate Collection/Treatment Systems Operation: \$72,800.00

14. Administrative

P.E. Supervisor	HR			
On-Site Engineer	HR			
Office Engineer	HR			
OnSite Technician	HR	2,080	\$25.00	\$52,000.00
Other _____				

Subtotal Administrative: \$52,000.00

Subtotal of 1-14 Above: \$291,784.50

15. Contingency	10	% of Subtotal of 1-14 Above		\$29,178.45
Subtotal Contingency:				\$29,178.45

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

ANNUAL LONG-TERM CARE COST (\$ / YEAR): \$320,962.95

Number of Years of Long-Term Care: 30

TOTAL LONG-TERM CARE COST (\$): \$9,628,888.50

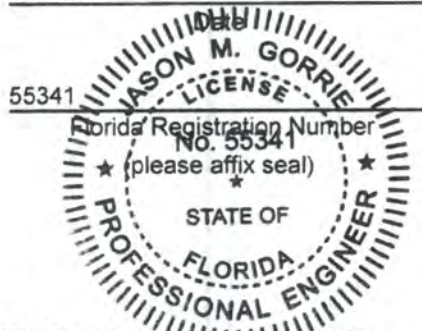
VI. CERTIFICATION BY ENGINEER

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

Jason Gorrie
Name and Title (please type)

8/27/2018



238 East Davis Blvd., Suite 206
Mailing Address

Tampa, FL 33606
City, State, Zip Code

jason@jmg-eng.com
E-Mail address (if available)

(813) 605-0706
Telephone Number

VII. SIGNATURE BY OWNER/OPERATOR


Signature of Applicant

Robert Sigmond
Name and Title (please type)

rsigmond@pascocountyfl.net
E-Mail address (if available)

19420 Central Blvd., Suite 219
Mailing Address

Land O' Lakes, FL 34637
City, State, Zip Code

(813) 235-6196
Telephone Number



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: West Pasco Class I Landfill - Solid Waste Disposal Cells WACS ID: 45799

Permit Application or Consent Order No.: PA87-23 Expiration Date: _____

Facility Address: 14230 Hays Road, Spring Hill, FL 34610

Permittee or Owner/Operator: Pasco County Utilities

Mailing Address: same

Latitude: 28 ° 22 ' 30 " Longitude: 82 ° 34 ' 00 "

Coordinate Method: _____ Datum: _____

Collected by: _____ Company/Affiliation: _____

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
SW1	10	Jun 1990	14.33			
SW2	10	Nov 2004	13.50	3		

Total disposal unit acreage included in this estimate: Closure: 20 Long-Term Care: 20

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 Pkwy.
Tempe 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 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:	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)

238 East Davis Blvd., Suite 206

Address

Jason Gorrie, President

Name & Title

Tampa, FL 33606

City, State, Zip Code

4/12/2018

Date

jason@jmg-eng.com

E-Mail Address

(813) 605-0706

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			
Placement and Spreading	CY	35,574	\$4.50	\$160,083.00
Compaction	CY	35,574	\$0.52	\$18,498.48
Off-Site Material	CY	35,574	\$10.00	\$355,740.00
Delivery	CY	35,574	\$4.00	\$142,296.00
Subtotal Slope and Fill:				\$676,617.48
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY			
Synthetics - 40 mil	SY	101,640	\$5.50	\$559,020.00
Synthetics - GCL	SY			
Synthetics - Geonet	SY			
Synthetics - Other (explain)	SY	101,640	\$7.50	\$762,300.00
Geocomposite				
Subtotal Cover Material:				\$1,321,320.00
4. Top Soil Cover:				
Off-Site Material	CY	88,935	\$10.00	\$889,350.00
Delivery	CY	88,935	\$4.00	\$355,740.00
Spread	CY	88,935	\$5.00	\$444,675.00
Subtotal Top Soil Cover:				\$1,689,765.00
5. Vegetative Layer				
Sodding	SY	101,640	\$2.75	\$279,510.00
Hydroseeding	AC			
Fertilizer	AC			
Mulch	AC			
Other (explain)				
Subtotal Vegetative Layer:				\$279,510.00
6. Stormwater Control System:				
Earthwork	CY	29,472	\$5.45	\$160,622.40
Grading	SY			
Piping	LF	2,600	\$11.80	\$30,680.00
Ditches	LF			
Berms	LF			
Control Structures	EA	7	\$22,625.00	\$158,375.00
Other (explain)	CY	7,046	\$4.08	\$28,747.68
pipe trenches				
Subtotal Stormwater Control System:				\$378,425.08

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) _____	_____	_____	_____	_____
Subtotal Active Gas Extraction Control:				_____
9. Security System:				
Fencing	LF	_____	_____	_____
Gate(s)	EA	_____	_____	_____
Sign(s)	EA	1	\$2,000.00	\$2,000.00
Subtotal Security System:				\$2,000.00
10. Engineering:				
Closure Plan Report	LS	1	\$120,000.00	\$120,000.00
Certified Engineering Drawings	LS	1	\$275,000.00	\$275,000.00
NSPS/Title V Air Permit	LS	1	_____	_____
Final Survey	LS	1	\$20,000.00	\$20,000.00
Certification of Closure	LS	1	\$5,000.00	\$5,000.00
Other (explain) _____	_____	_____	_____	_____
Subtotal Engineering:				\$420,000.00

Description	Hours	Cost / Hour	Hours	Cost / Hour	Total Cost
11. Professional Services					
	<u>Contract Management</u>		<u>Quality Assurance</u>		
P.E. Supervisor	640	\$150.00	640	\$150.00	\$192,000.00
On-Site Engineer	_____	_____	640	\$125.00	\$80,000.00
Office Engineer	320	\$125.00	320	\$125.00	\$80,000.00
On-Site Technician	_____	_____	_____	\$90.00	_____
Other (explain) _____	960	\$50.00	_____	_____	\$48,000.00
Admin Assistant	_____	_____	_____	_____	_____

Description	Unit	Number of Units	Cost / Unit	Total Cost
Quality Assurance Testing	LS	1	\$50,000.00	\$50,000.00
Subtotal Professional Services:				\$450,000.00

Subtotal of 1-11 Above: \$5,217,637.56

12. Contingency	<u>5</u>	% of Subtotal of 1-11 Above	\$260,881.88
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Subtotal Contingency:	\$260,881.88
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Estimated Closing Cost Subtotal: \$5,478,519.44

Description	Total Cost
13. Site Specific Costs	
Mobilization	
Waste Tire Facility	
Materials Recovery Facility	
Special Wastes	
Leachate Management System Modification	
Other (explain) _____	

Subtotal Site Specific Costs:	

TOTAL ESTIMATED CLOSING COSTS (\$): \$5,478,519.44

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	\$350.00	\$6,300.00
Annually	1	_____	_____	_____
Subtotal Groundwater Monitoring:				\$6,300.00
2. Surface Water Monitoring [62-701.510(4), and (8)(b)]				
Monthly	12	_____	_____	_____
Quarterly	4	_____	_____	_____
Semi-Annually	2	_____	_____	_____
Annually	1	_____	_____	_____
Subtotal Surface Water Monitoring:				_____
3. Gas Monitoring [62-701.400(10)]				
Monthly	12	_____	_____	_____
Quarterly	4	6	\$20.00	\$480.00
Semi-Annually	2	_____	_____	_____
Annually	1	_____	_____	_____
Subtotal Gas Monitoring:				\$480.00
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) EA	1	1	\$350.00	\$350.00
TCLP Analysis	_____	_____	_____	_____
Subtotal Leachate Monitoring:				\$350.00

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. Leachate Collection/Treatment Systems Maintenance				
<u>Maintenance</u>				
Collection Pipes	LF	_____	_____	_____
Sumps, Traps	EA	_____	_____	_____
Lift Stations	EA	_____	_____	_____
Cleaning	LS	1	\$9,000.00	\$9,000.00
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	514	\$70.00	\$35,980.00
Subtotal Leachate Collection / Treatment Systems Maintenance:				\$44,980.00
6. Groundwater Monitoring Well Maintenance				
Monitoring Wells	LF	_____	_____	_____
Replacement	EA	29	\$150.00	\$4,350.00
Abandonment	EA	_____	_____	_____
Subtotal Groundwater Monitoring Well Maintenance:				\$4,350.00
7. Gas System Maintenance				
Piping, Vents	LF LS	6	\$416.67	\$2,500.02
Blowers	EA	_____	_____	_____
Flaring Units	EA	_____	_____	_____
Meters, Valves	EA	_____	_____	_____
Compressors	EA	_____	_____	_____
Flame Arrestors	EA	_____	_____	_____
Operation	LS	1	_____	_____
Subtotal Gas System Maintenance:				\$2,500.02
8. Landscape Maintenance				
Mowing	AC	20	\$180.00	\$3,600.00
Fertilizer	AC	_____	_____	_____
Subtotal Landscape Maintenance:				\$3,600.00
9. Erosion Control and Cover Maintenance				
Sodding	SY	5.082	\$2.75	\$13,975.50
Regrading	AC	0.1	\$9,750.00	\$975.00
Liner Repair	SY	_____	_____	_____
Clay	CY	_____	_____	_____
Subtotal Erosion Control and Cover Maintenance:				\$14,950.50
10. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	1	\$3,150.00	\$3,150.00
Subtotal Storm Water Management System Maintenance:				\$3,150.00
11. Security System Maintenance				
Fences	LS	1	\$1,210.00	\$1,210.00
Gate(s)	EA	2	\$40.00	\$80.00
Sign(s)	EA	_____	_____	_____
Subtotal Security System Maintenance:				\$1,290.00

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
12. Utilities	LS	1	\$660.00	\$660.00
			Subtotal Utilities:	\$660.00

13. Leachate Collection/Treatment Systems Operation

Operation

P.E. Supervisor	HR			
On-Site Engineer	HR			
Office Engineer	HR			
OnSite Technician	HR	2,080	\$35.00	\$72,800.00
Materials	LS	1		

Subtotal Leachate Collection/Treatment Systems Operation: \$72,800.00

14. Administrative

P.E. Supervisor	HR			
On-Site Engineer	HR			
Office Engineer	HR			
OnSite Technician	HR	2,080	\$25.00	\$52,000.00
Other				

Subtotal Administrative: \$52,000.00

Subtotal of 1-14 Above: \$207,410.52

15. Contingency	10	% of Subtotal of 1-14 Above		\$20,741.05
			Subtotal Contingency:	\$20,741.05

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

ANNUAL LONG-TERM CARE COST (\$ / YEAR): \$228,151.57

Number of Years of Long-Term Care: 30

TOTAL LONG-TERM CARE COST (\$): \$6,844,547.16

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

Jason Gorrie

Name and Title (please type)

8/27/2018

Date

55341

Florida Registration Number



238 East Davis Blvd., Suite 206

Mailing Address

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City, State, Zip Code


jason@jmg-eng.com

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(813) 605-0706

Telephone Number

VII. SIGNATURE BY OWNER/OPERATOR



Signature of Applicant

Robert Sigmond

Name and Title (please type)

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E-Mail address (if available)

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