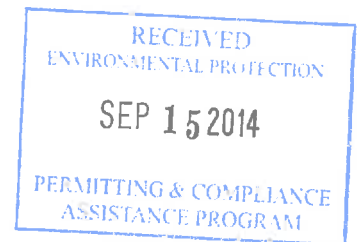




8381 Dix Ellis Trail, Suite 400
Jacksonville, Florida 32256
tel: 904-731-7109
fax: 904-519-7090



September 12, 2014

Mr. Cory Dilmore
Florida Department of Environmental Protection
Solid Waste Section
2600 Blair Stone Road/MS 4565
Tallahassee, FL 32399

Subject: City of Jacksonville
Trail Ridge Landfill 2014 Financial Assurance
Facility ID 33628

Dear Mr. Dilmore:

On behalf of the City of Jacksonville and Waste Management Inc. (WMI), CDM Smith is pleased to submit the enclosed financial assurances information for the City of Jacksonville Trail Ridge Class I Landfill. This form updates the financial assurances previously submitted in February 2014 for the landfill to reflect construction of Phase 6 expansion.

Please contact me directly at 904-527-6726 or SterlingLM@cdmsmith.com if you require any additional information.

Sincerely,

Lisa M. Sterling, P.E.
Project Manager
CDM Smith Inc.

cc: Greg Mathes, WMI (w/enclosure)
Lee Alford, COJ (w/enclosure)
Patrick Victor, (w/o enclosure)
FILE





Florida Department of Environmental Protection

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

DEP Form # 82-701.900(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: Trail Ridge Class I Landfill WACS ID: 33628
 Permit Application or Consent Order No.: _____ Expiration Date: _____
 Facility Address: 5110 U.S. Highway 301, Baldwin, Florida 32234
 Permittee or Owner/Operator: Trail Ridge Landfill, Inc.
 Mailing Address: Same as Facility Address

Latitude: 30° 13' 27N " Longitude: 82° 02' 40W "

Coordinate Method: _____ Datum: NGVD 1929

Collected by: Robert M. Angas Associates Company/Affiliation: Subconsultant

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 1-5	144	18-MAY-1992	20 years +/-	5 years +/-		
Phase 6	30.5	NA	5 years +/-	NA		

Total disposal unit acreage included in this estimate: Closure: 128.2 Long-Term Care: 174.5

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 32256-7890
904-807-3300

Central District
3319 Maguire Blvd., Ste. 282
Orlando, FL 32803-3767
407-884-7555

Southwest District
13051 N. Telecom Pkwy.
Tempe Terrace, FL 33637
813-632-7600

South District
2298 Victoria Ave., Ste. 384
Fort Myers, FL 33901-3881
239-332-6375

Southeast District
400 N. Congress Ave., Ste. 200
West Palm Beach, FL 33401
561-681-6800

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) 245-8708.

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

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	207,000	\$1.75	\$362,250.00
Compaction	CY			
Off-Site Material	CY			
Delivery	CY			
Subtotal Slope and Fill:				\$362,250.00
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY	140,000	\$25.00	\$3,500,000.00
Synthetics - 40 mil	SY	201,000	\$6.10	\$1,226,100.00
Synthetics - GCL	SY			
Synthetics - Geonet	SY	201,000	\$3.00	\$603,000.00
Synthetics - Other (explain)	CY	67,000	\$10.00	\$670,000.00
Sand				
Subtotal Cover Material:				\$5,999,100.00
4. Top Soil Cover:				
Off-Site Material	CY	347,000	\$15.00	\$5,205,000.00
Delivery	CY			
Spread	CY			
Subtotal Top Soil Cover:				\$5,205,000.00
5. Vegetative Layer				
Sodding	SY	620,000	\$2.90	\$1,798,000.00
Hydroseeding	AC			
Fertilizer	AC			
Mulch	AC			
Other (explain)				
Subtotal Vegetative Layer:				\$1,798,000.00
6. Stormwater Control System:				
Earthwork	CY			
Grading	SY			
Piping	LF			
Ditches (Letdown Piping)	LF	10,000	\$123.28	\$1,232,800.00
Berms	LF			
Control Structures	EA	105	\$7,000.00	\$735,000.00
Terrace Drains				
Other (explain) Underdrain	LF	51,000	\$20.00	\$1,020,000.00
Subtotal Stormwater Control System:				\$2,987,800.00

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	0	
Subtotal Passive Gas Control:				\$ 0.00
8. Active Gas Extraction Control:				
Traps	EA	9	\$14,292.00	\$128,628.00
Sumps	EA			
Flare Assembly	EA		\$212,260.00	
6"-10" Pipes and Fittings (LF)	EA	30,600	\$34.80	\$1,058,760.00
Flare Arrester	EA			
12"-18" Pipes and Fittings (LF)	EA	15,000	\$50.90	\$763,500.00
Mist Eliminator	EA			
Well Drilling	(LE)	12,300	\$100.60	\$1,237,380.00
Flow Meter	EA			
8"-10" Control Valve	(EA)	26	\$3,000.00	\$78,000.00
Blowers	EA			
12"-18" Control Valves	(EA)	32	\$3,285.00	\$105,120.00
Collection System	LF		\$460.00	\$40,480.00
Other (explain) Well head Assy	EA			
Subtotal Active Gas Extraction Control:				\$3,411,868.00
9. Security System:				
Fencing	LF			
Gate(s)	EA			
Sign(s)	EA			
Subtotal Security System:				
10. Engineering:				
Closure Plan Report	LS	1	\$89,150.00	\$89,150.00
Certified Engineering Drawings	LS	1	\$318,400.00	\$318,400.00
NSPS/Title V Air Permit	LS	1	0	
Final Survey	LS	1	\$76,420.00	\$76,420.00
Certification of Closure	LS	1	\$25,500.00	\$25,500.00
Other (explain)				
Subtotal Engineering:				\$509,470.00

Description	Hours	Cost / Hour	Hours	Cost / Hour	Total Cost
11. Professional Services					
<u>Contract Management</u>			<u>Quality Assurance</u>		
P.E. Supervisor	15	\$160.00	15	\$134.00	\$4,410.00
On-Site Engineer			170	\$83.00	\$14,110.00
Office Engineer	30	\$128.00	57	\$118.00	\$10,395.00
On-Site Technician	188	\$98.00	690	\$51.00	\$53,046.00
Other (explain)					

Description	Unit	Number of Units	Cost / Unit	Total Cost
Quality Assurance Testing	LS	1	\$15,000.00	\$15,000.00
Subtotal Professional Services:				\$96,961.00

Subtotal of 1-11 Above: \$20,370,449.00

12. Contingency 10 % of Subtotal of 1-11 Above \$2,037,044.90

Subtotal Contingency: \$2,037,044.90

Estimated Closing Cost Subtotal: \$22,407,493.90

Description	Total Cost
13. Site Specific Costs	
Mobilization	<u>\$427,575.80</u>
Waste Tire Facility	<u>\$10,000.00</u>
Materials Recovery Facility	
Special Wastes	<u>\$83,700.00</u>
Erosion Control (1% of Construction Cost)	<u>\$23,000.00</u>
Leachate Management System Modification	<u>\$5,000.00</u>
Other (explain) Bonds (1.2% of Construction Cost)	<u>\$285,000.00</u>
Subtotal Site Specific Costs:	<u>\$1,023,275.80</u>

TOTAL ESTIMATED CLOSING COSTS (\$): \$23,430,769.50

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 Permit Renewal	4	1.65	\$660.00	\$4,356.00
Semi-Annually	2	21	\$1,365.00	\$57,330.00
Annually Cost for Biennial Tech Report	1	1	\$2,600.00	\$2,600.00
Subtotal Groundwater Monitoring:				\$64,286.00
2. Surface Water Monitoring [62-701.510(4), and (8)(b)]				
Monthly	12			
Quarterly	4			
Semi-Annually	2	7	\$410.00	\$5,740.00
Annually	1			
Subtotal Surface Water Monitoring:				\$5,740.00
3. Gas Monitoring [62-701.400(10)]				
Monthly	12			
Quarterly	4	30	\$60.00	\$7,200.00
Semi-Annually	2	1	\$830.00	\$1,660.00
Annually	1			
Subtotal Gas Monitoring:				\$8,860.00
4. Leachate Monitoring [62-701.510(5), (8)(b) and 62-701.510(8)c]				
Monthly	12			
Quarterly	4			
Semi-Annually	2	2	\$850.00	\$2,600.00
Annually	1			
Other (explain) Composite	2	1	\$560.00	\$1,120.00
Subtotal Leachate Monitoring:				\$3,720.00

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	\$46,000.00	\$46,000.00
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>6,000</u>	<u>\$51.00</u>	<u>\$306,000.00</u>
Subtotal Leachate Collection / Treatment Systems Maintenance:				<u>\$352,000.00</u>
6. Groundwater Monitoring Well Maintenance				
Monitoring Wells	LF	<u>1</u>	<u>\$8,300.00</u>	<u>\$8,300.00</u>
Replacement	EA	_____	_____	_____
Abandonment	EA	_____	_____	_____
Subtotal Groundwater Monitoring Well Maintenance:				<u>\$8,300.00</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>	<u>\$32,000.00</u>	<u>\$32,000.00</u>
Subtotal Gas System Maintenance:				<u>\$32,000.00</u>
8. Landscape Maintenance				
Mowing	AC	<u>174</u>	<u>\$360.00</u>	<u>\$82,640.00</u>
Fertilizer	AC	<u>174</u>	<u>\$320.00</u>	<u>\$55,680.00</u>
Subtotal Landscape Maintenance:				<u>\$118,320.00</u>
9. Erosion Control and Cover Maintenance				
Sodding	SY	<u>4,000</u>	<u>\$2.90</u>	<u>\$11,600.00</u>
Regrading	AC	<u>0.8</u>	<u>\$8,500.00</u>	<u>\$7,650.00</u>
Liner Repair	SY	<u>2,000</u>	<u>\$6.10</u>	<u>\$12,200.00</u>
Clay	CY	<u>1,000</u>	<u>\$25.00</u>	<u>\$25,000.00</u>
Subtotal Erosion Control and Cover Maintenance:				<u>\$56,450.00</u>
10. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	<u>1</u>	<u>\$3,851.00</u>	<u>\$3,851.00</u>
Subtotal Storm Water Management System Maintenance:				<u>\$3,851.00</u>
11. Security System Maintenance				
Fences	LS	<u>1</u>	<u>\$10,620.00</u>	<u>\$10,620.00</u>
Gate(s)	EA	_____	_____	_____
Sign(s)	EA	_____	_____	_____
Subtotal Security System Maintenance:				<u>\$10,620.00</u>

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
12. Utilities	LS	<u>1</u>	<u>\$53,100.00</u>	<u>\$53,100.00</u>
			Subtotal Utilities:	<u>\$53,100.00</u>
13. Leachate Collection/Treatment Systems Operation				
<u>Operation</u>				
P.E. Supervisor	HR	<u>55</u>	<u>\$160.00</u>	<u>\$8,800.00</u>
On-Site Engineer	HR	<u> </u>	<u> </u>	<u> </u>
Office Engineer	HR	<u> </u>	<u> </u>	<u> </u>
OnSite Technician	HR	<u>210</u>	<u>\$100.00</u>	<u>\$21,000.00</u>
Materials	LS	<u>1</u>	<u>0</u>	<u>0</u>
			Subtotal Leachate Collection/Treatment Systems Operation:	<u>\$29,800.00</u>
14. Administrative				
P.E. Supervisor	HR	<u>200</u>	<u>\$160.00</u>	<u>\$32,000.00</u>
On-Site Engineer	HR	<u> </u>	<u> </u>	<u> </u>
Office Engineer	HR	<u> </u>	<u> </u>	<u> </u>
OnSite Technician	HR	<u>1,500</u>	<u>\$100.00</u>	<u>\$150,000.00</u>
Other <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
			Subtotal Administrative:	<u>\$182,000.00</u>
			Subtotal of 1-14 Above:	<u>\$929,047.00</u>
15. Contingency	<u>10</u>	% of Subtotal of 1-14 Above		<u>\$92,904.70</u>
			Subtotal Contingency:	<u>\$92,904.70</u>

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


ANNUAL LONG-TERM CARE COST (\$ / YEAR): \$1,021,951.70

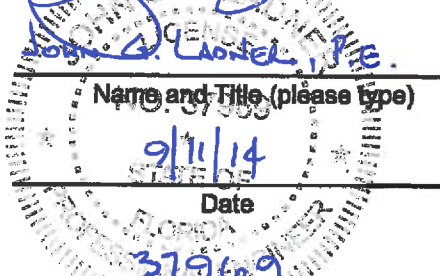
Number of Years of Long-Term Care: 30

TOTAL LONG-TERM CARE COST (\$): \$30,658,551.00

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


Name and Title (please type)

9/11/14

Date

37553

Florida Registration Number
(please affix seal)

2301 MAYLAND CENTER PARKWAY

Mailing Address

MAYLAND, FL. 32751

City, State, Zip Code

Ladnerjg@cdmsmith.com

E-Mail address (if available)

407-660-2552

Telephone Number

VII. SIGNATURE BY OWNER/OPERATOR



Signature of Applicant

Name and Title (please type)

E-Mail address (if available)

Mailing Address

City, State, Zip Code

Telephone Number