

# FINANCE

TRAIL RIDGE LF



# Florida Department of

## Memorandum

## Environmental Protection

**TO:** Fred Wick - MS 4565

**THROUGH:** Emerson C. Raulerson, P.E. *ECR*  
Solid Waste Section Supervisor

**FROM:** Michael Bogin, Engineering Specialist *MB*  
Solid Waste Section

**DATE:** July 10, 2009

**SUBJECT:** Trail Ridge Landfill  
2008 Financial Assurance Cost Estimates  
Permit Number 0013493-010-SC  
WACS ID Number NED/16/00033628

The Department of Environmental Protection has completed review of the Financial Assurance Cost Estimates, Form 62-701.900(28) Florida Administrative Code (F.A.C.), submitted along with the Response to Second Request for Additional Information (received on May 7, 2009) related to Operation Renewal Application. Estimates were signed and sealed by Juanitta Bader Clem, P.E., on May 26, 2009. The submission was made in order to comply with the requirements of Rule 62-701.630, F.A.C., and a copy is enclosed for your review. The following cost estimates have been approved for the subject facility.

**Closure Construction Cost Estimates - \$24,926,244.41**  
**Annual Long-Term Care Cost Estimates - \$1,106,679.57**  
**Total Long-Term Care Cost Estimates - \$33,200,387.18 (30 years)**

The above closure construction costs are for 119 acres, whereas the long-term care costs are for 144 acres. Approximately 25 acres of the originally permitted 144 acres have been closed. They are permitted to do "close-as-you-go," and thus far have done four incremental closures, totaling 25 acres.

The following is for your information:

Applicant name: Trail Ridge Landfill, Inc.  
Contact person: R.D. McConnell  
Title: Area Vice President  
Phone number: 904.289.9100

ECR:mb:cs

Enclosure

cc: Chris Pearson, City of Jacksonville  
Juanitta Bader Clem, England-Thims & Miller, Inc.

<i>F</i>	<b>OCULUS SW</b>
Initials	<i>SC</i>
Date	<i>7-13-09</i>

**Bogin, Michael**

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**From:** Bogin, Michael  
**Sent:** Wednesday, July 01, 2009 12:00 PM  
**To:** 'Juanitta Clem'  
**Subject:** Financial Assurance Cost Estimates for the Trail Ridge Landfill

Juanitta,

Since almost all quotes were submitted in 2008, we are going to approved the Financial Assurance Cost Estimates, submitted along with the Response to Second Request for Additional Information (received on May 7, 2009) related to Operation Renewal Application, as the 2008 Financial Assurance Cost Estimates.

If you have another opinion, please contact me.

Thanks,

*Michael Bogin*  
*Engineering Specialist IV*  
*FDEP Solid Waste Section*  
*7825 Baymeadows Way, Suite B200*  
*Jacksonville, FL 32256-7590*  
*Phone: (904)807-3355*  
*FAX: (904)448-4362*  
[www.dep.state.fl.us/northeast/waste/default.htm](http://www.dep.state.fl.us/northeast/waste/default.htm)>

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**From:** Juanitta Clem [mailto:ClemJ@etminc.com]  
**Sent:** Friday, May 22, 2009 4:14 PM  
**To:** Bogin, Michael  
**Subject:** RE: Trail Ridge Landfill Permit Renewal - RAI 2

Michael –

I inadvertently submitted them without signing and sealing them. If you would like, I can either come to your office and sign and seal your copies or send you new pages. Sorry.

**Juanitta Clem**  
Principal/P.E.

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**From:** Bogin, Michael [mailto:Michael.Bogin@dep.state.fl.us]  
**Sent:** Friday, May 22, 2009 3:54 PM  
**To:** Juanitta Clem  
**Subject:** RE: Trail Ridge Landfill Permit Renewal - RAI 2

Juanitta,

The Financial Assurance Cost Estimates Form was not signed, dated, and sealed by P.E. Please explain.

Thank you.

*Michael Bogin*  
*Engineering Specialist IV*  
*FDEP Solid Waste Section*  
*7825 Baymeadows Way, Suite B200*  
*Jacksonville, FL 32256-7590*  
*Phone: (904)807-3355*  
*FAX: (904)448-4362*



# Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, FL 32399-2400

DEP Form # 62-701.900(28)
Form Title: Financial Assurance Cost Estimate Form
Effective Date:
DEP Application No.
(Filled by DEP)

## FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: March 16, 2009

Date of DEP Approval: \_\_\_\_\_

### I. GENERAL INFORMATION:

Facility Name:	<u>Trail Ridge Class I Landfill</u>	WACS or GMSID #:	<u>NED / 16 / 00033628</u>
Permit Application No.:	<u>0013493-017 (Renewal of SC16-184444)</u>	Expiration Date:	<u>TBD</u>
Facility Address	<u>5110 U.S. Highway 301, Baldwin, Florida 32234</u>		
Permittee:	<u>Trail Ridge Landfill, Inc.</u>		
Mailing Address:	<u>Same as facility address</u>		

Latitude: 30°13'27"N Longitude: 82°02'40"W or UTM: \_\_\_\_\_

### Solid Waste Disposal Units Included in Estimate:

Phase/Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
<u>I - V</u>	<u>144</u>	<u>18-May-92</u>	<u>20 +/- Years</u>

Total Landfill Acreage included in this estimate: 119 Closure 144 Long Term Care

The entire landfill less closed areas (25 Ac +/-), after Fill Phase 10 (the estimated worse case).  
(71.3 acres of top area and 47.7 acres of side slope)

Type of Landfill X Class I \_\_\_\_\_ Class III \_\_\_\_\_ C&D Debris

### II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

_____ Letter of Credit*	_____ Insurance Certificate
_____ Performance Bond*	<u>X</u> Escrow Account
_____ Guaranty Bond*	_____ Trust Fund Agreement

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

Northwest District  
Governmental Center  
Tallahassee, FL 32301-5794  
850-595-8360

Northeast District  
7825 Baymeadows Way, Ste. 8200  
Jacksonville, FL 32256-7590  
904-448-4300

Central District  
3319 Maguire Blvd., Ste. 232  
Orlando, FL 32803-3767  
407-894-7555

Southwest District  
3804 Coconut Palm Dr.  
Tampa, FL 33619  
813-744-6100

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
941-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-681-6600

40 CFR Part 264 H as adopted by reference in Rule 62-701.603, Florida Administrative Code sets forth the method of annual Cost estimates may be adjusted using an inflation factor or be recalculating the maximum cost of closure in current dollars. Select one of the methods of cost estimate adjustment below.

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**(a) Inflation Factor Adjustment**

Inflation adjustments 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 Financial Coordinator at (850) 488-0300.

This adjustment is based on the Department approved closure cost estimate dated: \_\_\_\_\_

Latest Department Approved

Current Year

Inflation Adjusted

X

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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

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:

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**(b) Recalculate Estimates (see section V)**

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance 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 long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Signature of Engineer

Juanitta Bader Clem, P.E.

Name & Title (please type)

43245

Florida Registration Number (affix seal)

14775 Old St. Augustine Road, Jax. FL 32258

Mailing Address

(904) 265-3181

Telephone Number

Signature of Owner/Operator

R. D. McConnell, Area Vice President

Name & Title (please type)

(904) 289-9100

Telephone Number

dmccConnell@wm.com

Owner/Operator E-Mail Address

clemj@etmnc.com

Engineer's E-Mail Address

## V. RECALCULATE ESTIMATED CLOSING COSTS

For the time period in the landfill operation when the extent and manner of its operation makes closing most expensive.

**\*\* Third Party Estimate/Quote must be provided for each item**

**\*\* Costs must be for a third party providing all materials and labor**

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
1. Proposed Monitoring Wells The monitoring wells have been installed as part of operation.	EA			\$0.00
(Do not include wells already in existence)				
2. Slope and Fill (bedding layer between waste and barrier layer):				
Excavation	CY	0	\$0.00	\$0.00
Placement and Spreading	SY	575,960	\$1.65 (a)	\$950,334.00
Compaction Included with Placement and Spreading	CY	0	\$0.00	\$0.00
Off-Site Material Included as part of operation	CY	0	\$0.00	\$0.00
Delivery Included as part of Placement and Spreading	CY	0	\$0.00	\$0.00
Subtotal Monitoring Wells:				\$950,334.00
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY	76,956	\$32.59 (b)	\$2,507,996.04
Synthetics - 40 mil	SY	345,092	\$5.737 (b)	\$1,979,792.80
Synthetics - GCL	SY	0	\$0.00	\$0.00
Synthetics - Geonet	SY	0	\$0.00	\$0.00
Synthetics - Other	SY	0	\$0.00	\$0.00
Subtotal Barrier Layer Cover:				\$4,487,788.84
4. Top Soil:				
Off-Site Material (sand)	CY	115,031	\$18.21 (b)	\$2,094,714.51
Off-Site Material (top soil)	CY	268,943	\$22.85 (b)	\$6,145,347.55
Delivery Included with material	CY	0	\$0.00	\$0.00
Spread Included with material	CY	0	\$0.00	\$0.00
Subtotal Top Soil Cover:				\$8,240,062.06

(a) This estimate is based upon the average of the Budget Unit pricing as provided by J.B. Coxwell Contracting, Inc., R.B. Baker Construction, Inc., and Comanco Environmental Corporation. The price has been reduced by half for J.B. Coxwell Contracting, Inc. and R.B. Baker Construction, Inc., since the contractor would not supply the soil material.

(b) This estimate is based upon the average of the Budget Unit pricing as provided by J.B. Coxwell Contracting, Inc., R.B. Baker Construction, Inc., and Comanco Environmental Corporation.

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
5. Vegetative Layer:				
Sodding	SY	575,960	\$2.72 (a)	\$1,566,611.20
Hydroseeding Included with sodding	AC	0	\$0.00	\$0.00
Fertilizer Included with sodding	AC	0	\$0.00	\$0.00
Mulch	AC N/A	0	\$0.00	\$0.00
Other	SY N/A	0	\$0.00	\$0.00
Subtotal Vegetative Layer:				\$1,566,611.20

6. Stormwater Control System:

Earthwork	CY	8,415	\$15.800 (a)	\$132,957.00
Grading Included with Earthwork	SY	0	\$0.00	\$0.00
Piping	LF	4,240	\$234.485 (a)	\$994,216.40
Ditches	LF N/A	0	\$0.00	\$0.00
Berms	LF N/A	0	\$0.00	\$0.00
Control Structures	EA N/A	0	\$0.00	\$0.00
Other Terrace Drains	EA	56	\$5,020.60 (a) (b)	\$281,153.60
Underdrain	LF	41,861	\$29.26 (a)	\$1,224,852.86
Subtotal Stormwater Controls:				\$2,633,179.86

7. Gas Controls: Passive

Wells	EA N/A	0	\$0.00	\$0.00
Pipe and Fittings	LF N/A	0	\$0.00	\$0.00
Monitoring Probes The gas monitoring probes have been installed.	EA	0	\$0.00	\$0.00
NSPS/Title V requirements	LS	0	\$0.00	\$0.00
Subtotal Passive Gas Controls:				\$0.00

(a) This estimate is based upon the average of the Budget Unit pricing as provided by J.B. Coxwell Contracting, Inc., R.B. Baker Construction, Inc., and Comanco Environmental Corporation.

(b) Based upon 66 feet of 18" HDPE pipe at \$64.123 per LF and 32 feet of 6" HDPE pipe at \$24.64 per LF or \$5,020.60 per terrace drain.

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
8. Gas Control: Active Extraction				
Traps	EA	5	\$13,466.67	\$67,333.35
Sump	EA	0	\$0.00	\$0.00
Installed during operation				
Flare Assembly	EA	1	\$200,000.00	\$200,000.00
Flame Arrestor	EA	0	\$0.00	\$0.00
Installed during operation				
Mist Eliminator	EA	0	\$0.00	\$0.00
Installed during operation				
Flow Meter	EA	0	\$0.00	\$0.00
Installed during operation				
Blowers	EA	0	\$0.00	\$0.00
Included with the Flare Assembly				
Collection System				
6" Pipes and Fittings	LF	7,000	\$32.58	\$228,060.00
8" Pipes and Fittings	LF	1,300	\$36.17	\$47,021.00
10" Pipes and Fittings	LF	4,700	\$42.00	\$197,400.00
Other (describe)				
12" Control Valves	EA	5	\$3,095.00	\$15,475.00
Wells (44 wells @ 140 FT.)	FT	6,160	\$94.83	\$584,152.80
Well Head Assembly	EA	44	\$433.33	\$19,066.52
Subtotal Active Gas Extraction:				\$1,358,508.67

9. Security System:      The security system was installed as part of the operation.

Fencing	LF	0	\$0.00	\$0.00
Gate(s)	EA	0	\$0.00	\$0.00
Sign(s)	EA	0	\$0.00	\$0.00
Ditches	LF	0	\$0.00	\$0.00
Subtotal Security System:				\$0.00

10. Engineering:

Closure Plan Report	LS	1	\$84,000.00	\$84,000.00
Including Closure Permit				
Certified Engineer	LS	0	\$0.00	\$0.00
Included in Certification of Closure				
NSPS/Title V Air Permit	LS	0	\$0.00	\$0.00
A Title V Air Permit has been issued				
Final Survey	LS	1	\$72,000.00	\$72,000.00
Certification of Closure	LS	1	\$24,000.00	\$24,000.00
Other (Detail)				
Construction Drawings	LS	0	\$0	\$0.00
	LS	1	\$300,000	\$300,000.00
Subtotal Engineering:				\$480,000.00

# 11. Professional Services

	Contract Management			Quality Assurance			Total
	Rate/Hr	Hours	LS	Rate/Hr	Hours	LS	
P.E. Supervisor	\$150	104	\$15,600	\$126.00	100	\$12,600	\$28,200
On-Site Engineer	\$0	0	\$0	\$78.00	1200	\$93,600	\$93,600
Office Engineer	\$120	208	\$24,960	\$108.00	400	\$43,200	\$68,160
On-Site Technician	\$90	1300	\$117,000	\$48.00	4800	\$230,400	\$347,400
Other (Explain)							
Clerical			\$7,000				\$7,000
Expenses			\$12,000				\$12,000

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
Quality Assurance Testing	LS	1	\$78,000.00	\$78,000.00

Subtotal Professional Services \$634,360.00

Subtotal of 1-11 Above: \$20,350,844.63

12. Contingency 15 % of Total \$3,052,626.70

Closing Cost Subtotal: \$23,403,471.33

# 13. Site Specific Costs (explain)

Mobilization/Demobilization (5.0% of Construction Cost)		\$961,824.23
Waste Tire Facility (100 tons at \$85.84 per ton)	(a)	\$8,584.00
Materials Recovery Facility	N/A	\$0.00
Special Wastes		\$60,000.00
Leachate Management System Modification	N/A	\$0.00
Other - Bonds (1.0% of Construction Costs)		\$192,364.85
Erosion Control (during construction)		\$300,000.00
Subtotal Site Specific Costs:		\$1,522,773.08
TOTAL CLOSING COSTS:		\$24,926,244.41

- a. Based upon an average disposal fee of \$63.34/ton (based upon \$70/ton per Wheelabrator Ridge Energy, Inc., Auburndale, FL (863-665-2255), \$55/ton per Global Tire Recycling, Inc., 1201 Industrial Dr., Wildwood, FL (352-330-2213), and \$65/ton per RMD Americas USA, LLC, 270 Barnes Road, Rockledge, FL (321-636-3532)) plus transportation at \$22.50/ton.

# VI. ANNUAL COST FOR LONG-TERM CARE

(Check Term Length)

\_\_\_\_\_ 5 Years \_\_\_\_\_ 20 Years   X   30 Years \_\_\_\_\_ Other

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.

\*\* Third Party Estimate/Quote must be provided for each item  
 \*\* Costs must be for a third party providing all material and labor

All items must be addressed. Attach a detailed explanation for all items marked not applicable (N/A)

Description	Sampling Frequency (Events/yr.)	Number of Wells	\$/Well/Event		\$/Year
<b>1. Groundwater Monitoring (62-701.510(6), and (8)(a))</b>					
Monthly	12	<u>0</u>	<u>\$0.00</u>		<u>\$0.00</u>
Quarterly	4	<u>0</u>	<u>\$0.00</u>		<u>\$0.00</u>
Semi-Annual	2	<u>37</u>	<u>\$216.00</u>	(a)	<u>\$15,984.00</u>
Annual		<u>0</u>	<u>\$0.00</u>		<u>\$0.00</u>
Other					
Sampling	2	<u>1</u>	<u>\$6,126.00</u>	(b)	<u>\$12,252.00</u>
Biennial Report	0.5	<u>1</u>	<u>\$5,200.00</u>	(c)	<u>\$2,600.00</u>
Semi-Annual Report	2	<u>1</u>	<u>\$2,500.00</u>	(c)	<u>\$5,000.00</u>
Permit Renewal	0.20	<u>37</u>	<u>\$615.00</u>	(a)	<u>\$4,551.00</u>
Subtotal Groundwater Monitoring:					<u>\$40,387.00</u>
<b>2. Surface Water Monitoring (62-701.510(4), and (8)(b))</b>					
Monthly	12	<u>0</u>	<u>\$0.00</u>		<u>\$0.00</u>
Quarterly	4	<u>0</u>	<u>\$0.00</u>		<u>\$0.00</u>
Semi-Annual*	2	<u>2</u>	<u>\$380.00</u>	(a)	<u>\$1,520.00</u>
* Sampling and reporting are included with the groundwater monitoring.					
Annual	1	<u>0</u>	<u>\$0.00</u>		<u>\$0.00</u>
Subtotal Surface Water Monitoring:					<u>\$1,520.00</u>
<b>3. Gas Monitoring</b>					
Monthly	12	<u>0</u>	<u>\$0.00</u>		<u>\$0.00</u>
Quarterly	4	<u>10</u>	<u>\$50.00</u>		<u>\$2,000.00</u>
Semi-Annual	2	<u>0</u>	<u>\$0.00</u>		<u>\$0.00</u>
Annual	1	<u>0</u>	<u>\$0.00</u>		<u>\$0.00</u>
Semi-Annual Report	2	<u>1</u>	<u>\$780.00</u>		<u>\$1,560.00</u>
Subtotal Gas Monitoring:					<u>\$3,560.00</u>

(a) Includes laboratory analysis only.

(b) Includes all sampling (ground water, surface water and leachate).

(c) Includes all reporting (groundwater, surface water and leachate).

Description	Sampling Frequency (Events/yr.)	Number of Locations	\$/Location/Event	\$/Year
4. Leachate Monitoring (62-701.510(5), (6)(b) and 62-701.510(8))				
Monthly	12	0	\$0.00	\$0.00
Quarterly	4	0	\$0.00	\$0.00
Semi-Annual*	2	2	\$607.00 (a)	\$2,428.00
Annual	1	0	\$0.00	\$0.00
Composite*	2	1	\$525.00 (a)	\$1,050.00
Subtotal Leachate Monitoring:				\$3,478.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
5. Leachate Collection/Treatment Systems Maintenance				
Maintenance				
Collection Pipes	LF	0	\$0.00	\$0.00
Sumps, Traps	EA	0	\$0.00	\$0.00
Lift Stations	EA	1	\$36,000.00	\$36,000.00
Cleaning	LS	0	\$0.00	\$0.00
Tanks	EA	0	\$0.00	\$0.00
Impoundments				
Liner Repair	SY	0	\$0.00	\$0.00
Sludge Removal	CY	0	\$0.00	\$0.00
Aeration System				
Floating Aerators	EA	0	\$0.00	\$0.00
Spray Aerators	EA	0	\$0.00	\$0.00
Disposal				
Off-Site (Includes Transportation and Disposal)	1000 gallons	5,072.04 (c)	\$47.22 (b)	\$239,501.73
Subtotal Leachate Collection Maintenance				\$275,501.73

(a) Includes laboratory analysis only. Sampling and reporting are included with the groundwater monitoring.

(b) Based upon current transportation cost of \$260 per 6000 gallon load and a disposal cost of \$3.88 per 1000 gallons.

(c) Based upon the average leachate generation rate of 13,896 gallons per day.

## 6. Leachate Collection/Treatment Systems Operations

Operation		Hours	\$/Hour	Total
P.E. Supervisor	HR	52	\$150.00	\$7,800.00
On-Site Engineer	HR	0	\$0.00	\$0.00
Office Engineer	HR	0	\$0.00	\$0.00
On-Site Technician	HR	208	\$90.00	\$18,720.00
Materials	LS	0	\$0.00	\$0.00
Subtotal Leachate Collection/Treatment System Maintenance & Operation:				\$26,520.00

## 7. Maintenance of Groundwater Monitoring Wells Assume replacement of one well per year.

Monitoring Wells	EA	1	\$7,800.00	\$7,800.00
Replacement	EA	0	\$0.00	\$0.00
Abandonment	EA	0	\$0.00	\$0.00
Subtotal Groundwater Monitoring Well Maintenance:				\$7,800.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
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## 8. Gas System Maintenance Assume \$30,000 per year for all maintenance.

Piping, Vents	LF	0	\$0.00	\$0.00
Blowers	EA	0	\$0.00	\$0.00
Flaring Units	EA	0	\$0.00	\$0.00
Meters, Valves	EA	0	\$0.00	\$0.00
Compressors	EA	0	\$0.00	\$0.00
Flame Arrestors	EA	0	\$0.00	\$0.00
Operation	LS	0	\$0.00	\$0.00
Subtotal Gas System:				\$30,000.00

## 9. Landscape

Mowing	AC	155	\$330.96 (a)	\$51,298.80
Fertilizing	AC	155	\$300.00	\$46,500.00
Subtotal Landscape Maintenance				\$97,798.80

(a) Based upon the current fee of \$8,550 per event or \$55.16 per acre and 6 events per year.

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
10. Erosion Control & Cover Maintenance				
Sodding	SY	15,004 *	\$2.72 (a)	\$40,810.88
Regrading Included with Seeding, Soil	SY	15,004 *	\$1.65 (a)	\$24,756.60
Liner Repair Included with Seeding, Soil	SY	7,502 **	\$5.737 (a)	\$43,038.97
Clay	CY	2,501 **	\$32.59 (a)	\$81,507.59
Subtotal Erosion Control and Cover Maintenance:				\$190,114.04
* 2% of the 155 acre landfill				
** 1% of the 155 acre landfill				
11. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	1	\$6,000.00 (b)	\$6,000.00
Ditch Cleaning	LF	10,400	\$2.00	\$20,800.00
Subtotal Storm Water System Maintenance:				\$26,800.00
12. Security System Maintenance				
Assume \$10,000 per year for all maintenance.				
Fences	LF			
Gate(s)	EA			
Sign(s)	EA			
Subtotal Security System:				\$10,000.00
13. Utilities				
Include Leachate Pumps, Blowers, Lighting, etc.	LS	1	\$50,000.00 (c)	\$50,000.00
14. Administrative				
P.E. Supervisor	HR	416	\$150.00 (d)	\$62,400.00
On-Site Engineer	HR	0	\$0.00	\$0.00
Office Engineer	HR	0	\$0.00	\$0.00
On-Site Technician	HR	3,120	\$90.00 (e)	\$280,800.00
Other (Explain)		0	\$0.00	\$0.00
Subtotal Administrative:				\$343,200.00
15. Contingency				
% of Total	N/A	0%	\$1,106,679.57	\$0.00
Subtotal Contingency:				\$0.00

(a) See Unit Costs in Closure Estimates above.

(b) Assuming 1% of the Stormwater Control System as estimated above.

(c) Based on average monthly utility cost of \$5,000.

16. Site Specific Costs (explain)

Unit Costs

_____	LS	_____
_____	LS	_____
_____	LS	_____

Subtotal Administrative: \$0.00

ANNUAL LONG-TERM CARE COST (\$/Year)	<u>\$1,106,679.57</u>
NUMBER OF YEARS OF LONG-TERM CARE	<u>30</u>
TOTAL LONG-TERM CARE COST (\$)	<u>\$33,200,387.18</u>

# Trail Ridge Closure Budget Dec. 2008



J. B. Coxwell Contracting, Inc.

SP122

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
10	12" Intermediate Cover	1.00	SY	3.50	3.50
20	12" Compacted Clay (6.67x10-8)	1.00	CY	33.17	33.17
30	40 mil Textured HDPE Geomembrane Liner	1.00	SY	7.56	7.56
40	12" Sand layer (1x10-3)	1.00	CY	17.94	17.94
50	Vegetative Cover	1.00	CY	22.56	22.56
60	Sod (incl overseeding)	1.00	SY	3.16	3.16
70	General Earthwork	1.00	CY	16.09	16.09
80	30" HDPE Downcomer Pipe	1.00	LF	206.97	206.97
90	24" HDPE Downcomer Pipe	1.00	LF	110.65	110.65
100	18" HDPE Downcomer Pipe	1.00	LF	69.37	69.37
110	6" HDPE Downcomer Pipe	1.00	LF	31.92	31.92
120	6" HDPE Underdrain Pipe	1.00	LF	21.78	21.78
<b>GRAND TOTAL</b>					<b>\$544.67</b>



**R.B. BAKER**  
CONSTRUCTION INC.

December 17, 2008

Juanitta Clem  
England, Thims, & Miller  
14775 Old St. Augustine Road  
Jacksonville, FL 32258

**Re: Trail Ridge Landfill Budget Unit Pricing**

Juanitta;

Thanks you for allowing R. B. Baker construction, Inc. the opportunity to provide assistance on this project. We have put together some budgetary unit prices based on some of our recent landfill bids in the Southeast.

1. 12" Intermediate Cover (clean cover material for clay liner subgrade) - \$5.40/SY including material costs (including delivery to the site), placement, and compaction.
2. 12" Compacted Clay ( $K < 6.67 \times 10^{-8}$  cm/sec) - \$24.60/CY including material costs (including delivery to the site), placement in 6" lifts, and compaction.
3. 40 mil textured HDPE Geomembrane Liner - \$6.15/SY including material costs (including delivery to the site) and placement.
4. 12" Sand Layer ( $K > 1.0 \times 10^{-3}$  cm/sec) - \$16.70/CY including material costs (including delivery to the site) and placement on the textured HDPE liner.
5. Vegetative Cover (top soil material that is free from brush, weeds, etc. - \$21.00/CY including material costs (including delivery to the site) and placement.
6. Sod - \$3.00/SY including material costs (including delivery to the site) and placement.

**Stormwater Controls:**

1. General Earthwork/Fill - \$16.30/CY including material costs (including delivery to the site), placement, and compaction. Mass excavation on-site - \$4.00/CY.

Home Office  
100 Morgan Industrial Blvd., Garden City, GA 31408  
912.964.6513 Fax 912.964.6531

Florida Group  
125 International Golf Parkway, St. Augustine, FL 32095  
904.824.9901 Fax 904.824.9601

[www.rbbaker.com](http://www.rbbaker.com)

DEP002662

2. 30" HDPE Downcomer Pipe - \$262.00/LF including material costs (including delivery to the site), placement, and fittings.
3. 24" HDPE Pipe - \$166.00/LF including material costs (including delivery to the site), placement, and fittings.
4. 18" HDPE Pipe - \$93.00/LF including material costs (including delivery to the site), placement, and fittings.
5. 6" HDPE Pipe - \$22.00/LF including material costs (including delivery to the site), placement, and fittings.
6. 6" HDPE Underdrain Pipe - \$36.00/LF including material costs (including delivery to the site), placement, fittings and sand envelope.

I hope this information is of use to you. Please feel free to call if you have any questions.

Sincerely,

**R.B. BAKER CONSTRUCTION, INC.**



Brandon Forrest

Vice President - North Florida Group



# LANDFILL CONSTRUCTION COST BID TABULATION

Project Name: LFGEES Expansion - November - 2008

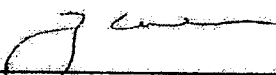
Project Site: Trail Ridge Landfill

Item Description	Qty	Unit	SGS		B&M		TRIGON		Average Unit Cost
			Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Initial Mobilization / Demobilization	1	L.S.	\$42,000.00	\$42,000.00	\$44,750.00	\$44,750.00	\$55,000.00	\$55,000.00	\$47,250.00
Subsequent Mobilizations / Demobilizations	2	Ea.	\$7,500.00	\$15,000.00	\$14,750.00	\$29,500.00	\$15,000.00	\$30,000.00	\$12,416.67
Condensate Knockout at Flare Station	1	L.S.	\$42,000.00	\$42,000.00	\$37,750.00	\$37,750.00	\$44,500.00	\$44,500.00	\$41,416.67
Extraction Well Installation	1,250	VF	\$95.00	\$118,750.00	\$94.50	\$118,125.00	\$95.00	\$118,750.00	\$94.83
New Extraction Wellhead Installation	13	Ea.	\$400.00	\$5,200.00	\$375.00	\$4,875.00	\$525.00	\$6,825.00	\$433.33
Existing Extraction Wellhead re-installation	65	Ea.	\$285.00	\$18,525.00	\$50.00	\$3,250.00	\$410.00	\$26,650.00	\$248.33
4" Gas Collection Pipe	1,890	LF	\$28.00	\$49,140.00	\$28.00	\$52,920.00	\$32.50	\$61,425.00	\$28.83
6" Gas Collection Pipe	2,320	LF	\$28.00	\$64,960.00	\$34.50	\$80,040.00	\$35.25	\$81,780.00	\$32.58
8" Gas Collection Pipe	11,550	LF	\$32.00	\$369,600.00	\$37.00	\$427,350.00	\$39.50	\$456,225.00	\$36.17
10" Gas Collection Pipe	0	LF	\$36.00	\$0.00	\$0.00	\$0.00	\$42.00	\$0.00	\$26.00
12" Gas Collection Pipe	2,395	LF	\$46.00	\$110,170.00	\$48.75	\$116,756.25	\$48.00	\$114,960.00	\$47.58
18" Gas Collection Pipe	2,540	LF	\$71.00	\$180,340.00	\$69.00	\$175,260.00	\$72.00	\$182,880.00	\$70.87
Adder for Trench Excavation and Backfill - 6 to 8 ft.	2,890	LF	\$9.00	\$26,010.00	\$12.00	\$34,680.00	\$8.00	\$23,120.00	\$9.67
Adder for Trench Excavation and Backfill - 9 to 12 ft.	2,310	LF	\$15.00	\$34,650.00	\$37.50	\$86,625.00	\$17.00	\$39,270.00	\$23.17
Adder for Trench Excavation and Backfill - 13 to 16 ft.	1,160	LF	\$20.00	\$23,200.00	\$50.00	\$58,000.00	\$28.00	\$32,480.00	\$32.67
Road Crossing	9	Ea.	\$1,800.00	\$16,200.00	\$1,995.00	\$17,955.00	\$2,825.00	\$25,425.00	\$2,206.67
Final Cover Trench Backfill	775	LF	\$45.00	\$34,875.00	\$55.50	\$43,012.50	\$61.25	\$47,468.75	\$53.92
2" Airlines	16,255	LF	\$2.00	\$32,510.00	\$3.50	\$56,892.50	\$4.00	\$65,020.00	\$3.17
2" Forcemain	16,255	LF	\$2.00	\$32,510.00	\$3.50	\$56,892.50	\$4.00	\$65,020.00	\$3.17
2" Flanged Risers	20	Ea.	\$150.00	\$3,000.00	\$85.00	\$1,700.00	\$230.00	\$4,600.00	\$155.00
6" Tie-ins with Flanges to Existing 6" Header Piping	5	Ea.	\$350.00	\$1,750.00	\$1,750.00	\$8,750.00	\$2,450.00	\$12,250.00	\$1,516.67
6" Tie-ins with Flanges to Existing 6" Header Flanges	3	Ea.	\$1,800.00	\$5,400.00	\$1,750.00	\$5,250.00	\$2,450.00	\$7,350.00	\$2,000.00
18" Tie-ins with Flanges to Existing 18" Header Flanges	1	Ea.	\$2,500.00	\$2,500.00	\$2,275.00	\$2,275.00	\$5,600.00	\$5,600.00	\$3,458.33
6" Tie-ins to Existing 6" Header Valves	0	Ea.	\$800.00	\$0.00	\$1,750.00	\$0.00	\$1,950.00	\$0.00	\$1,500.00
8" Tie-ins to Existing 6" Header Valves	8	Ea.	\$850.00	\$6,800.00	\$1,750.00	\$14,000.00	\$2,300.00	\$18,400.00	\$1,633.33
12" Tie-ins to Existing 10" Header Valves	1	Ea.	\$1,200.00	\$1,200.00	\$2,225.00	\$2,225.00	\$3,150.00	\$3,150.00	\$2,191.67
12" Cut-in Tees	1	Ea.	\$700.00	\$700.00	\$2,225.00	\$2,225.00	\$3,400.00	\$3,400.00	\$2,108.33
Flanges (8"-12")	13	Ea.	\$450.00	\$5,850.00	\$325.00	\$4,225.00	\$1,850.00	\$24,050.00	\$875.00
Flanges (18")	0	Ea.	\$900.00	\$0.00	\$350.00	\$0.00	\$4,200.00	\$0.00	\$1,816.67
Valve Relocations 4"-10"	1	Ea.	\$3,000.00	\$3,000.00	\$4,500.00	\$4,500.00	\$2,600.00	\$2,600.00	\$3,366.67
8" Isolation Valve	1	Ea.	\$2,000.00	\$2,000.00	\$1,825.00	\$1,825.00	\$2,550.00	\$2,550.00	\$2,125.00
10" Isolation Valve	0	Ea.	\$2,500.00	\$0.00	\$0.00	\$0.00	\$2,750.00	\$0.00	\$1,750.00
12" Isolation Valve	1	Ea.	\$3,500.00	\$3,500.00	\$2,585.00	\$2,585.00	\$3,200.00	\$3,200.00	\$3,095.00
18" Isolation Valve	1	Ea.	\$12,000.00	\$12,000.00	\$11,350.00	\$11,350.00	\$14,500.00	\$14,500.00	\$12,616.67
20" Spacer for Isolation Valve	1	Ea.	\$3,000.00	\$3,000.00	\$2,250.00	\$2,250.00	\$1,450.00	\$1,450.00	\$2,233.33
18" Condensate Drop	2	Ea.	\$18,000.00	\$36,000.00	\$11,175.00	\$22,350.00	\$15,500.00	\$31,000.00	\$14,891.67
Gravel Sump Condensate Drop	3	Ea.	\$15,000.00	\$45,000.00	\$12,500.00	\$37,500.00	\$12,900.00	\$38,700.00	\$13,466.67
Performance & Payment Bond	1	LS	\$18,589.00	\$18,589.00	\$35,000.00	\$35,000.00	\$64,000.00	\$64,000.00	\$39,196.33
<b>TOTAL</b>				<b>\$1,365,929.00</b>		<b>\$1,602,643.75</b>		<b>\$1,743,598.75</b>	

Invoice/Credit No.	66051397	Invoice Date	February 27, 2008
Terms	Net 30 Days		
Remit to	TestAmerica Laboratories, Inc. Box 4305, Philadelphia PA, 19175-4305 Tax ID: 23-2919996		

<b>Bill to:</b>
City of Jacksonville Attn: Accounts Payable 1031 Superior St. Jacksonville, FL 32254

<b>Ship to:</b>
HDR, Inc. 200 W. Forsyth St., Suite 800 Jacksonville, FL 32202

P.O. Number		W.O. Number		Contract Number		Work Ordered by	
PO802538:7						Mr. Brad Stone (904) 598-8953	
Job Description		Site Name		SDG Number		Invoice Contact	
See below		HDR/Trail Ridge Landfill				Ms. Zora Coleman	
Job No.	Job Description	Receipt Date		Quantity	Unit Price	Amount	
	Method/Test Description						
J20847-1	Trail Ridge Landfill	01/30/2008					
	350.1 - Nitrogen (Ammonia, Colorimetric, Automated Phenate)			24.00	10.00	240.00	
	200.7 - Total Recoverable ICP Metals -			24.00	48.00	1,152.00	
	200.7 Rev 4.4 - Dissolved Dissolved ICP Metals			1.00	48.00	48.00	
	245.1 - Dissolved Mercury in Water by CVAA			1.00	12.00	12.00	
	245.1 - Mercury in Water by CVAA			24.00	12.00	288.00	
	SM 2540C - Total Dissolved Solids (Dried at 180 °C)			24.00	10.00	240.00	
	353.2 - Nitrate			24.00	10.00	240.00	
	504.1 - EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography			24.00	30.00	720.00	
	8260B - Volatile Organic Compounds by GC/MS			24.00	60.00	1,440.00	
	SM 4500 Cl- E - Chloride (Colorimetric, Automated Ferricyanide)			24.00	7.00	168.00	
	200.8 - Dissolved Dissolved Thallium			1.00	20.00	20.00	
	200.8 - Total Recoverable Thallium			24.00	20.00	480.00	
2/27/08 - Approved for Payment 							
\$ 216/w							
Project Number		Client Number		Project Manager		Subtotal	
66000337		1350446		Nancy Robertson			
Latest Sample Receipt Date		Latest Report Date		Phone Number		Total	
01/30/2008		02/27/2008		(813) 885-7427		\$5,048.00	

For proper credit, please include invoice number on all remittance.

TestAmerica Tampa - 6712 Benjamin Road, Suite 100, Tampa, FL 33634

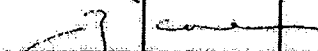
Page 1 of 1

Annual Well  
Analyses

Invoice/Credit No.	66054556	Invoice Date	August 26, 2008
Terms	Net 30 Days		
Remit to	TestAmerica Laboratories, Inc. Dept 2314, P.O. Box 122314, Dallas, TX 75312-2314		

<b>Bill to:</b>
City of Jacksonville Attn: Accounts Payable 1031 Superior St. Jacksonville, FL 32254

<b>Ship to:</b>
HDR, Inc. 200 W. Forsyth St., Suite 800 Jacksonville, FL 32202

P.O. Number		W.O. Number		Contract Number		Work Ordered by	
PO802538.7						Mr. Brad Stone (904) 598-8953	
Job Description		Site Name		SDG Number		Invoice Contact	
See below		HDR/Trail Ridge Landfill				Ms. Zora Coleman	
Job No.	Job Description	Receipt Date		Quantity	Unit Price	Amount	
	Method/Test Description						
J24424-1	Trail Ridge Landfill		08/02/2008				
	200.7 - Total Recoverable ICP Metals			9.00	60.00	540.00	
	200.7 Rev 4.4 - Dissolved 200.7 Dissolved			1.00	40.00	40.00	
	SM 2320B - Bicarbonate			9.00	10.00	90.00	
	245.1 - IIG			9.00	12.00	108.00	
	SM 2540C - Total Dissolved Solids (Dried at 180 °C)			9.00	10.00	90.00	
	350.1 - Ammonia			9.00	10.00	90.00	
	353.2 - Nitrate			9.00	10.00	90.00	
	SM 4500.CN E- Cyanide			9.00	10.00	90.00	
	504.1 - EDB, DBCP			9.00	25.00	225.00	
	8081A - Organochlorine Pesticides			9.00	80.00	720.00	
	8082 - PCBs			9.00	20.00	180.00	
	8141A - Organophosphorus Pesticides			9.00	80.00	720.00	
	8260B - Volatiles			9.00	60.00	540.00	
	8270C - Appendix 2			9.00	80.00	720.00	
	SM 4500 Cl- E - Chloride			9.00	7.00	63.00	
	SM 4500 S2 F- Sulfide			9.00	10.00	90.00	
	200.8 - Total Recoverable 200.8 TL			9.00	23.00	207.00	
	8151A - Chlorinated Herbicides by GC			9.00	100.00	900.00	
	8/29/08 - Approved for Payment 						
Project Number		Client Number		Project Manager		Subtotal	\$5,503.00
66000337		1350446		Nancy Robertson			
Latest Sample Receipt Date		Latest Report Date		Phone Number		Total	\$5,503.00
08/02/2008		08/22/2008		(813) 885-7427			

For proper credit, please include invoice number on all remittance.

TestAmerica Tampa - 6712 Benjamin Road, Suite 100, Tampa, FL 33634

Permit Renewal  
Well Analyses

**Juanitta Clem**

---

**From:** Stone, Bradford M [Brad.Stone@hdrinc.com]

**Sent:** Sunday, January 11, 2009 4:34 PM

**To:** Juanitta Clem

**Subject:** TRL - cost for monitoring

Juanita - per your request for Trail Ridge Landfill we are currently charging Waste Management 2500 per semiannual report. This cost does not include sampling, laboratory analysis, or resampling. Test America does the analytical work, Protech does the sampling. Let me know if you need anything more....

**Brad Stone, P.E.**

**HDR | ONE COMPANY - *Many Solutions***

200 W. Forsyth St., Ste 800

Jacksonville, FL 32202

Phone (904) 598-8953

Fax (904) 598-8988

Cell (904) 607-6316

Email: brad.stone@hdrinc.com

1/12/2009

DEP002667

**Juanitta Clem**

**From:** Triplett, Mark [MTriple1@wm.com]  
**Sent:** Monday, January 12, 2009 2:08 PM  
**To:** Juanitta Clem  
**Subject:** RE: Trail Ridge

Annually, I have a proposed budget number of \$12,252 for all their sampling at Trail Ridge.

Will that be enough for this submittal?

-----Original Message-----

**From:** Juanitta Clem [mailto:ClemJ@etmnc.com]  
**Sent:** Monday, January 12, 2009 12:38 PM  
**To:** Triplett, Mark  
**Cc:** Dolihite, Brian  
**Subject:** Trail Ridge

Mark --

I got the report costs from Brad Stone but his costs do not include the sampling costs from Protech. Do you have their costs?

**Juanitta Clem**

Principal/P.E.

 **England-Thimys & Miller, Inc.**  
*Vision • Experience • Results*  
14775 Old St. Augustine Road • Jacksonville, Florida 32258

Direct: 904-265-3181 Fax: 904-646-9485  
Cell: 904-710-3162 Email: ClemJ@etmnc.com

This message may contain confidential information. If you have received this message by mistake, please inform the sender by sending an e-mail reply. At the same time please delete the message and any attachments from your system without making, distributing or retaining any copies. Although all our e-mail messages and any attachments upon sending are automatically virus scanned we assume no responsibility for any loss or damage arising from the receipt and/or use.

1/12/2009

DEP002668

Invoice/Credit No.	66051400	Invoice Date	February 27, 2008
Terms	Net 30 Days		
Remit to	TestAmerica Laboratories, Inc. Box 4305, Philadelphia PA, 19175-4305 Tax ID: 23-2919996		

**Bill to:**

City of Jacksonville  
Attn: Accounts Payable  
1031 Superior St.  
Jacksonville, FL 32254

**Ship to:**

HDR, Inc.  
200 W. Forsyth St., Suite 800  
Jacksonville, FL 32202

P.O. Number		W.O. Number	Contract Number	Work Ordered by	
PO802538:7				Mr. Brad Stone (904) 598-8953	
Job Description		Site Name	SDG Number	Invoice Contact	
See below		HDR/Trail Ridge Landfill		Ms. Zora Coleman	
Job No.	Job Description	Receipt Date	Quantity	Unit Price	Amount
J20884-1	Trail Ridge Landfill	01/31/2008			
	350.1 - Nitrogen (Ammonia, Colorimetric, Automated Phenate)		2.00	10.00	20.00
	351.2 - Nitrogen, Total Kjeldahl (Colorimetric, Semi-Automated Block Digester, AAII)		2.00	15.00	30.00
	200.7 Rev 4.4 - Total Recoverable ICP Metals by 200.7		2.00		
	245.1 - Mercury		2.00	48.00	96.00
	SM 2540C - Total Dissolved Solids (Dried at 180 °C)		2.00	12.00	24.00
	SM 2540D - Total Suspended Solids Dried at 103-105°C		2.00	10.00	20.00
	353.2 - Nitrate		2.00	5.00	10.00
	365.4 - Total Phosphorus		2.00	10.00	20.00
	504.1 - EDB, DBCP, and 123 TCP in Water by Microextraction and Gas Chromatography		2.00	12.00	24.00
	SM 5210B - 5 Day BOD test		2.00	30.00	60.00
	SM 5220D - Chemical Oxygen Demand (COD) Colorimetric		2.00	20.00	40.00
	SM 5310C - Total Organic Carbon/Persulfate - Ultraviolet Oxidation Method		2.00	12.00	24.00
	8260B - VOCs		2.00	18.00	36.00
	SM 4500 Cl- E - Chloride (Colorimetric, Automated Ferriyanide)		2.00	60.00	120.00
	9221E - Fecal coliforms sub to AEL		2.00	7.00	14.00
	SM 10200H - Chlorophyll-A subbed to AEL		2.00	31.00	62.00
	Unionized NH3 - Unionized Ammonia by Florida DEP SOP		2.00	50.00	100.00
	200.8 - Total Recoverable Thallium		2.00	10.00	20.00
			2.00	20.00	40.00
Project Number		Client Number	Project Manager	Subtotal	
66000337		1350446	Nancy Robertson		\$760.00
Latest Sample Receipt Date		Latest Report Date	Phone Number	Total	
01/31/2008		02/27/2008	(813) 885-7427		\$760.00

2/27/08 -  
Approved for  
Payment  
Coe

For proper credit, please include invoice number on all remittance.

TestAmerica Tampa - 6712 Benjamin Road, Suite 100, Tampa, FL 33634

4380/100000  
Page 1 of 1

Annual Surface  
Water Analyses

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Invoice/Credit No.	66051401	Invoice Date	February 27, 2008
Terms	Net 30 Days		
Remit to	TestAmerica Laboratories, Inc. Box 4305, Philadelphia PA, 19175-4305 Tax ID: 23-2919996		

**Bill to:**

City of Jacksonville  
Attn: Accounts Payable  
1031 Superior St.  
Jacksonville, FL 32254

**Ship to:**

HDR, Inc.  
200 W. Forsyth St., Suite 800  
Jacksonville, FL 32202

P.O. Number	W.O. Number	Contract Number	Work Ordered by		
PO802538:7			Mr. Brad Stone (904) 598-8953		
Job Description	Site Name	SDG Number	Invoice Contact		
See below	HDR/Trail Ridge Landfill		Ms. Zora Coleman		
Job No.	Job Description	Receipt Date	Quantity	Unit Price	Amount
J20885-1	Trail Ridge Landfill	01/31/2008			
	350.1 - Nitrogen (Ammonia, Colorimetric, Automated Phenate)		2.00	10.00	20.00
	200.7 Rev 4.4 - Total Recoverable All Metals Use this list not local		2.00	72.00	144.00
	SM 2320B - Bicarbonate		2.00	10.00	20.00
	245.1 - Mercury in Water by CVAA		2.00	12.00	24.00
	SM 2540C - Total Dissolved Solids (Dried at 180 °C)		2.00	10.00	20.00
	353.2 - Nitrogen, Nitrate-Nitrite (Colorimetric, Automated, Cadmium Reduction)		2.00	10.00	20.00
	SM 4500 CN E - Cyanide, Total: Colorimetric Method		2.00	20.00	40.00
	504.1 - EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography		2.00	30.00	60.00
	8081A - Organochlorine Pesticides by Gas Chromatography		2.00	60.00	120.00
	8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography		2.00	20.00	40.00
	8141A - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique		2.00	70.00	140.00
	8151A - Chlorinated Herbicides by GC		2.00	110.00	220.00
	8260B - Volatile Organic Compounds by GC/MS		2.00	60.00	120.00
	8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)		2.00	70.00	140.00
	SM 4500 Cl - E - Chloride (Colorimetric, Automated Ferricyanide)		2.00	7.00	14.00
	SM 4500 S2 F - Sulfide (Titrimetric, Iodine)		2.00	36.00	72.00
Project Number	Client Number	Project Manager	Subtotal		
66000337	1350446	Nancy Robertson		\$1,214.00	
Latest Sample Receipt Date	Latest Report Date	Phone Number	Total		
01/31/2008	02/27/2008	(813) 885-7427		\$1,214.00	

2/27/08 -  
Approved  
for  
Payment  
*[Signature]*

For proper credit, please include invoice number on all remittance.

TestAmerica Tampa - 6712 Benjamin Road, Suite 100, Tampa, FL 33634

607/each

Page 1 of 1

Annual Leachak  
Analyses

DEP002670

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Invoice/Credit No.	66051402	Invoice Date	February 27, 2008
Terms	Net 30 Days		
Remit to	TestAmerica Laboratories, Inc. Box 4305, Philadelphia PA, 19175-4305 Tax ID: 23-2919996		

<b>Bill to:</b>
City of Jacksonville Attn: Accounts Payable 1031 Superior St. Jacksonville, FL 32254

<b>Ship to:</b>
HDR, Inc. 200 W. Forsyth St., Suite 800 Jacksonville, FL 32202

P.O. Number		W.O. Number	Contract Number	Work Ordered by	
PO802538:7				Mr. Brad Stone (904) 598-8953	
Job Description		Site Name	SDG Number	Invoice Contact	
See below		HDR/Trail Ridge Landfill		Ms. Zora Coleman	
Job No.	Job Description	Receipt Date	Quantity	Unit Price	Amount
J20886-1	Method/Test Description				
	Trail Ridge Landfill		01/31/2008		
	6010B - TCLP RCRA metals		1.00	33.00	33.00
	7470A - TCLP Mercury in Liquid Waste (Manual Cold Vapor Technique)		1.00	12.00	12.00
	8081A - TCLP Organochlorine Pesticides by Gas Chromatography		1.00	120.00	120.00
	8151A - TCLP Chlorinated Herbicides by GC		1.00	120.00	120.00
	8270C - TCLP Semivolatiles		1.00	120.00	120.00
	8260B - TCLP Volatiles		1.00	120.00	120.00
	2/27/08 -				
	Approved for Payment				
J [Signature]					
Project Number		Client Number	Project Manager	Subtotal	\$525.00
66000337		1350446	Nancy Robertson		
Latest Sample Receipt Date		Latest Report Date	Phone Number	Total	\$525.00
01/31/2008		02/27/2008	(813) 885-7427		

For proper credit, please include invoice number on all remittance.

TestAmerica Tampa - 6712 Benjamin Road, Suite 100, Tampa, FL 33634

Page 1 of 1

Composite  
Annual Leachate  
Analyses

DEP002671

**Juanitta Clem**

**From:** Parnell, Daniel P. - Manager, Industrial Pretreatment [ParnDP@jea.com]  
**Sent:** Friday, January 09, 2009 11:52 AM  
**To:** Juanitta Clem  
**Subject:** Leachate Rates

Juanitta,

JEA charges the City of Jacksonville \$0.00388/gallon for landfill leachate.

Dan Parnell  
Manager, Industrial Pretreatment  
JEA  
904-665-4796 (office)  
904-502-9017 (cell)  
904-665-8334 (fax)

-----  
Florida has a very broad Public Records Law. Virtually all written communications to or from State and Local Officials and employees are public records available to the public and media upon request. JEA does not differentiate between personal and business e-mails. E-mail sent on the JEA system will be considered public and will only be withheld from disclosure if deemed confidential pursuant to State Law. Under Florida law, e-mail addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact JEA by phone or in writing.

1/9/2009

DEP002672



ENVIRONMENTAL CORPORATION

March 5, 2009

Ms. Juanitta Clem  
Principal/P.E.  
England-Thims & Miller, Inc.  
14775 Old St. Augustine Road  
Jacksonville, FL 32258  
Phone (904) 265-3181  
Fax (904) 646-9485

*sent via email*  
Clem.J@etm-inc.com

REFERENCE:

TRAIL RIDGE LANDFILL  
CLOSURE CONSTRUCTION  
JACKSONVILLE, FLORIDA

SUBJECT: BUDGET PROPOSAL

Dear Ms. Clem:

COMANCO Environmental Corporation is pleased to provide the following budget pricing for closure work at the Trail Ridge Landfill located in Jacksonville, Florida. All pricing is being provided on a budgetary basis and has been derived assuming standard construction practices and materials. All pricing assumes availability of soil materials locally. Prior to any agreement for work to be performed, a final design would need to be furnished and all work repriced based upon the final scope and quantities of work to be performed. Our budget pricing for the various work items is as follows:

Final Cover Materials:

12" Intermediate Cover (clean cover material for clay liner subgrade) - \$ .50 /SY not including material costs and placement but including compaction -- *Work includes grading and compaction only.*

12" Compacted Clay ( $K \leq 6.67 \times 10^{-8}$  cm/sec) - \$40/CY including material costs (including delivery to the site), placement in 6" lifts, and compaction. *Please note that clay material meeting this spec will likely be difficult to find locally. Please consider the use of a Geosynthetic Clay Liner (GCL) instead.*

40 mil textured HDPE Geomembrane Liner - \$3.50/SY including material costs (including delivery to the site) and placement

12" Sand Layer ( $K \geq 1.0 \times 10^{-3}$  cm/sec) - \$20/CY including material costs (including delivery to the site) and placement on the textured HDPE liner

Vegetative Cover (top soil material that is free from brush, weeds, etc. - \$25/CY including material costs (including delivery to the site) and placement

Sod - \$2.00/SY including material costs (including delivery to the site) and placement

---

4901 Sterling Commerce Drive • Plant City, Florida 33566-7872 • (813) 988-8829 • FAX (813) 496-7305

[www.COMANCO.com](http://www.COMANCO.com)

1 of 2

DEP002673



Stormwater Controls:

General Earthwork/Fill - \$15/CY including material costs (including delivery to the site), placement, and compaction

30" HDPE Downcomer Pipe - \$40/LF including material costs (including delivery to the site), placement, and fittings. Assumes N-12 or equivalent materials (Smooth walled corrugated plastic pipe).

24" HDPE Pipe - \$35/LF including material costs (including delivery to the site), placement, and fittings. Assumes N-12 or equivalent materials (Smooth walled corrugated plastic pipe).

18" HDPE Pipe - \$30/LF including material costs (including delivery to the site), placement, and fittings. Assumes N-12 or equivalent materials (Smooth walled corrugated plastic pipe).

6" HDPE Pipe - \$20/LF including material costs (including delivery to the site), placement, and fittings. Assumes N-12 or equivalent materials (Smooth walled corrugated plastic pipe).

6" HDPE Underdrain Pipe - \$30/LF including material costs (including delivery to the site), placement, fittings and sand envelope. Assumes N-12 or equivalent materials (Smooth walled corrugated plastic pipe).

Again, these prices are being provided on a budgetary basis and are reasonable prices for standard landfill closure work in this geographical area. These numbers are valid for any user or regulatory authority for use in establishing probable construction cost for such projects. Please do keep in mind, however, that the size and scope of each project is unique and, therefore, pricing for each specific project will need to be developed based upon timing, size, and market conditions at the time that the project is to be constructed.

We at COMANCO appreciate the opportunity to submit this pricing and we hope to work with you on future construction projects.

Sincerely,  
COMANCO Environmental Corporation

John Jacobs  
Senior Estimator

<b>ID:</b>	<b>299972</b>	This ID is read by a scanner. Do not mark.
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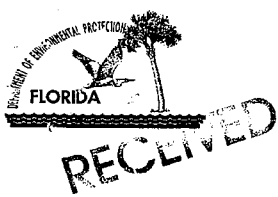
## DWM Preindex Coversheet

ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

### Submittal Data

Catalog **Solid Waste**  
Profile **Fiscal**  
County **DUVAL**  
Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**  
Document Date **07-10-2009**  
Received Date **07-10-2009**  
Document\_Type **COST ESTIMATE RELATED**  
Contractor ID \_\_\_\_\_  
Facility Type **CLASS I LANDFILL (100)**  
Document Subject **2008 financial assurance cost estimates and approval memo**

<input type="checkbox"/> Double Sided	<input type="checkbox"/> Oversized Pages	Prepped By _____
<input type="checkbox"/> Data Sheet	Page Count _____	Scanned By _____
Comments <i>F</i>		QC By _____
		Indexed By _____
		QA By _____
Created By _____		Date 7/10/09
bogin_m <i>[Signature]</i>		



# Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, FL 32399-2400

DEP Form # 62-701.900(28)  
Form Title: Financial Assurance Cost Estimate Form  
Effective Date:  
DEP Application No. **RECEIVED**  
(Filed by DEP)

SEP 09 2008

## FINANCIAL ASSURANCE COST ESTIMATE FORM

EV: LSAW

Date: September 2, 2008

Date of DEP Approval: \_\_\_\_\_

### I. GENERAL INFORMATION:

Facility Name: Trail Ridge Class I Landfill WACS or GMSID #: GMS3116P02787  
Permit Application No.: 0013493-002-SC (Renewal of SC16-184444) Expiration Date: November 25, 2007  
Facility Address: 5110 U.S. Highway 301, Baldwin, Florida 32234  
Permittee: Trail Ridge Landfill, Inc.  
Mailing Address: Same as facility address

Latitude: 30°14'00"N

Longitude: 82°02'30"W

or UTM: \_\_\_\_\_

### Solid Waste Disposal Units Included in Estimate:

Phase/Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
<u>I - V</u>	<u>144</u>	<u>18-May-92</u>	<u>20 +/- Years</u>

Total Landfill Acreage included in this estimate: 119 Closure 144 Long Term Care

The entire landfill less closed areas (25 Ac +/-), after Fill Phase 10 (the estimated worse case).  
(71.3 acres of top area and 47.7 acres of side slope)

Type of Landfill X Class I \_\_\_\_\_ Class III \_\_\_\_\_ C&D Debris

### II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

\_\_\_\_ Letter of Credit\* \_\_\_\_\_ Insurance Certificate  
\_\_\_\_ Performance Bond\* \_\_\_\_\_ Escrow Account  
\_\_\_\_ Guaranty Bond\* \_\_\_\_\_ Trust Fund Agreement

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

Northwest District  
160 Governmental Center  
Pensacola, FL 32501-5794  
850-595-8360

Northeast District  
7825 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7590  
904-448-4300

Central District  
3319 Maguire Blvd., Ste. 232  
Orlando, FL 32803-3767  
407-894-7555

Southwest District  
3804 Coconut Palm Dr.  
Tampa, FL 33619  
813-744-6100

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
941-332-6975  
South District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
861-681-6660

**OCULUS**  
Initials JB SW  
Date 12-8-08

DEP002676

40 CFR Part 264 H as adopted by reference in Rule 62-701.603, Florida Administrative Code sets forth the method of annual Cost estimates may be adjusted using an inflation factor or be recalculating the maximum cost of closure in current dollars. Select one of the methods of cost estimate adjustment below.

☒

**(a) Inflation Factor Adjustment**

Inflation adjustments 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 Financial Coordinator at (850) 488-0300.

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

Dec. 13, 2003 (w/renewal application)

Latest Department Approved		Current Year		Inflation Adjusted
<u>\$15,509,345.27</u>	X	<u>1.0250</u>	=	<u>\$15,897,078.90</u>

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		Inflation Adjusted Annual Long-Term Care Cost Estimate
<u>\$799,862.03</u>	X	<u>1.0250</u>	=	<u>\$819,858.58</u>
Number of Years of Long-Term Care Remaining:			X	<u>30</u>
Inflation Adjusted Long-Term Care Cost Estimate:			=	<u>\$24,595,757.42</u>

☐

**(b) Recalculate Estimates (see section V)**

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance 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 long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department **annually**, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Juanitta Bader Clem  
Signature of Engineer

Juanitta Bader Clem, P.E.  
Name & Title (please type)

43245  
Florida Registration Number (affix seal)

14775 St. Augustine Road, Jax. FL 32258  
Mailing Address

(904) 642-8990  
Telephone Number

Greg Mathes  
Signature of Owner/Operator

Greg Mathes, Director of Landfill Operations  
Name & Title (please type)

(904) 289-9100  
Telephone Number

gmathes@wm.com  
Owner/Operator E-Mail Address

clemj@etmnc.com  
Engineer's E-Mail Address



# England-Thims & Miller, Inc.

14775 Old St. Augustine Road • Jacksonville, Florida 32258  
tel 904.642.8990 • fax 904.646.9485 • www.etm-inc.com

## PRINCIPALS

Douglas C. Miller, P.E., CEO  
N. Hugh Mathews, P.E., President  
Joseph A. Tarver, Exec. V.P.  
Juanitta Bader Clem, P.E., V.P.  
Scott A. Wild, P.E., PSM, V.P.  
Samuel R. Crissinger, CFO, V.P.  
Robert A. Mizell, Jr., P.E., V.P.  
Thomas N. Fallin, P.E., V.P.  
Buckley K. Williams, C.C.C.A., V.P.  
K.T. Peter Ma, P.E., V.P.

## EMERITUS

James E. England, P.E.  
Robert E. Thims

September 2, 2008

DATE

September 2, 2008

Mr. Greg Mathes  
Trail Ridge Landfill  
5110 U.S. Highway 301  
Baldwin, FL 32234

Reference: Trail Ridge Landfill  
2008 Financial Assurance Cost Estimates  
ET&M Project No. E05-191

RECEIVED

SEP 12 2008

NORTHEAST DISTRICT  
DEP-JACKSONVILLE

Dear Greg: Dear

Please find herewith ~~five~~ <sup>a</sup> signed and sealed ~~copies~~ <sup>copy</sup> of the 2008 Financial Assurance Cost Estimates for Trail Ridge Landfill. ~~Please sign all five copies and send two copies of the estimates to the Florida Department of Environmental Protection, one copy to the City of Jacksonville and one copy to me.~~

If you have any questions, please feel free to give me a call.

Sincerely,

ENGLAND, THIMS & MILLER, INC.

Juanitta Bader Clem

Juanitta Bader Clem, P.E.  
Vice President

Attachments

Greg Mathes

Director of Landfill Operations  
North Florida Market Area

~~Greg Mathes~~

ENGINEERS • PLANNERS • SURVEYORS • GIS • LANDSCAPE ARCHITECTS

JACKSONVILLE • PANAMA CITY

CA-00002584 LC-0000316

DEP002678

**ID:****200336**This ID is read by a scanner.  
Do not mark.**DWM Preindex Coversheet**

ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

**Submittal Data**Catalog **Solid Waste**Profile **Fiscal**County **DUVAL**Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**Document Date **09-02-2008**Received Date **09-12-2008**Document\_Type **COST ESTIMATE RELATED**

Contractor ID

Facility Type **CLASS I LANDFILL (100)**Document Subject **2008 Annual Cost Estimates**☐ Double Sided☐ Oversized Pages

Prepped By \_\_\_\_\_

☐ Data Sheet

Page Count \_\_\_\_\_

Scanned By \_\_\_\_\_

Comments

QC By \_\_\_\_\_

Indexed By \_\_\_\_\_

QA By \_\_\_\_\_

Created By \_\_\_\_\_

boesch\_j *EC*

Date 12/3/08



November 1, 2006

STATE OF FLORIDA  
DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION

2006 NOV -6 A 9:59

NORTHEAST DISTRICT  
JACKSONVILLE, FL

**VIA UPS NEXT DAY DELIVERY**

Mary Nogas  
Solid Waste Section Supervisor  
Northeast District Office  
Florida Department of Environmental Protection  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256

(904) 807-3355

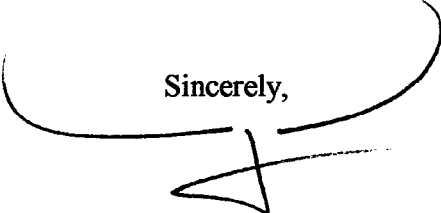
**RE: Trail Ridge Landfill  
Financial Assurance Annual Update  
I.D. Number GMS3116PO2787  
Permit # 0013493-002-SC**

Dear Ms. Nogas:

Please find attached the Financial Assurance Cost Estimate Form for the Trail Ridge Landfill.

If additional information is required, please feel free to contact me at (386) 984-6608 or at [aburson@wm.com](mailto:aburson@wm.com).

Sincerely,



Alfred (Al) L. Burson, Sr.  
Environmental Protection Manager  
Waste Management of North Florida

AB/ab

Attachment

Cc w/ attachment: Frank Hornbrook, Solid Waste Financial Coordinator  
Greg Mathes



# Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, FL 32399-2400

DEP Form # 62-701.900(28)
Form Title: Financial Assurance Cost Estimate Form
Effective Date:
DEP Application No.
(Filled by DEP)

## FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: November 1, 2006 Date of DEP Approval: \_\_\_\_\_

### I. GENERAL INFORMATION:

Facility Name:	<u>Trail Ridge Class I Landfill</u>	WACS or GMSID #: <u>GMS3116P02787</u>
Permit Application No.:	<u>0013493-002-SC (Renewal of SC16-184444)</u>	Expiration Date: <u>November 25, 2007</u>
Facility Address	<u>5110 U.S. Highway 301, Baldwin, Florida 32234</u>	
Permittee:	<u>Trail Ridge Landfill, Inc.</u>	
Mailing Address:	<u>Same as facility address</u>	

Latitude: 30°14'00"N Longitude: 82°02'30"W or UTM: \_\_\_\_\_

### Solid Waste Disposal Units Included in Estimate:

Phase/Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
<u>I - V</u>	<u>144</u>	<u>18-May-92</u>	<u>20 +/- Years</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Total Landfill Acreage included in this estimate: 119 Closure 144 Long Term Care

The entire landfill less closed areas (25 Ac +/-), after Fill Phase 10 (the estimated worse case).  
(71.3 acres of top area and 47.7 acres of side slope)

Type of Landfill X Class I \_\_\_\_\_ Class III \_\_\_\_\_ C&D Debris

### II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

_____ Letter of Credit*	_____ Insurance Certificate	* Indicates mechanisms that require use of a Standby Trust Fund Agreement
_____ Performance Bond*	_____ Escrow Account	
_____ Guaranty Bond*	_____ Trust Fund Agreement	

Northwest District  
160 Governmental Center  
Pensacola, FL 32501-5794  
850-595-8360

Northeast District  
7825 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7590  
904-448-4300

Central District  
3319 Maguire Blvd., Ste. 232  
Orlando, FL 32803-3767  
407-894-7555

Southwest District  
3804 Coconut Palm Dr.  
Tampa, FL 33619  
813-744-6100

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
941-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-681-6600

DEP002681

40 FR Part 264 H as adopted by reference in Rule 62-701.603, Florida Administrative Code sets forth the method of annual Cost estimates may be adjusted using an inflation factor or be recalculating the maximum cost of closure in current dollars. Select one of the methods of cost estimate adjustment below.



**(a) Inflation Factor Adjustment**

Inflation adjustments 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 Financial Coordinator at (850) 488-0300.

This adjustment is based on the Department approved closure cost estimate dated: Dec. 13, 2003 (w/renewal application)

Latest Department Approved		Current Year		Inflation Adjusted
<u>\$14,619,045.41</u>	X	<u>1.0300</u>	=	<u>\$15,057,616.77</u>

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		Inflation Adjusted Annual Long-Term Care Cost Estimate
<u>\$753,946.68</u>	X	<u>1.0300</u>	=	<u>\$776,565.08</u>
Number of Years of Long-Term Care Remaining:			X	<u>30</u>
Inflation Adjusted Long-Term Care Cost Estimate:			=	<u>\$23,296,952.27</u>



**(b) Recalculate Estimates (see section V)**

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance 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 long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Juanitta Bader Clem  
Signature of Engineer

Juanitta Bader Clem, P.E.  
Name & Title (please type)

43245  
Florida Registration Number (affix seal)

14775 St. Augustine Road, Jax. FL 32258  
Mailing Address

(904) 642-8990  
Telephone Number

Greg Mathes  
Signature of Owner/Operator

Greg Mathes, Director of Landfill Operations  
Name & Title (please type)

(904) 289-9100  
Telephone Number

gmathes@wm.com  
Owner/Operator E-Mail Address

clemj@etminc.com  
Engineer's E-Mail Address

File

# Florida Department of

## Memorandum

## Environmental Protection

**TO:** Fred Wick - MS 4565

**THROUGH:** Emerson C. Raulerson, P.E.  
Solid Waste Supervisor *ECR*

**FROM:** Julia Boesch, Engineering Specialist *JB*  
Solid Waste Section

**DATE:** September 6, 2007

**SUBJECT:** Trail Ridge Landfill  
Review of the Financial Assurance Annual Cost Adjustments  
Permit Number 0013493-010-SC  
WACS ID Number NED/16/00033628

The Department has completed review of the cost estimates (copy enclosed for your files) received on August 21, 2007 (dated August 16, 2007) to comply with the requirements of Florida Administrative Code Chapter 62-701 and the subject permit. The following cost estimates have been approved for the subject facility.

### Active Class I Landfill

**Closure Construction Cost Estimates - \$15,509,345.27**

**Annual Long-Term Care Cost Estimates - \$799,862.03**

**Total Long-Term Care Cost Estimates - \$23,995,860.97 (30 years)**

The above closure construction costs are for 119 acres, whereas the long-term care costs are for 144 acres. Approximately 25 acres of the originally permitted 144 acres have been closed. They are permitted to do "close-as-you-go," and thus far have done four incremental closures, totaling 25 acres.

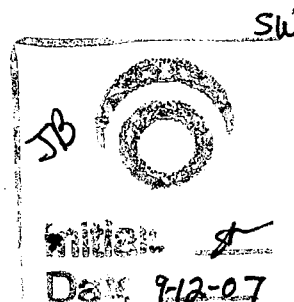
The following is for your information:

Applicant name: Trail Ridge Landfill, Inc.  
Contact person: Greg Mathes  
Title: Director of Landfill Operations  
Phone number: 904.289.9100

Enclosure

ECR/JB:cg *✓*

cc: Chris Pearson, City of Jacksonville  
Juanitta Bader Clem, England Thims & Miller





# Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, FL 32399-2400

DEP Form # 62-701.900(28)

Form Title: Financial Assurance Cost Estimate Form

Effective Date:

DEP Application No.

(Filled by DEP)

## SOLID WASTE SECTION

AUG 2 1 2007

### FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: August 16, 2007

Date of DEP Approval:

#### I. GENERAL INFORMATION:

Facility Name: Trail Ridge Class I Landfill  
Permit Application No.: 0013493-002-SC (Renewal of SC16-184444)  
Facility Address: 5110 U.S. Highway 301, Baldwin, Florida 32234  
Permittee: Trail Ridge Landfill, Inc.  
Mailing Address: Same as facility address

WACS or GMSID #: GMS3116P02787  
Expiration Date: November 25, 2007

Latitude: 30°14'00"N

Longitude: 82°02'30"W

or UTM:

#### Solid Waste Disposal Units Included in Estimate:

Phase/Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
I - V	144	18-May-92	20 +/- Years

RECEIVED

AUG 2 1 2007

BY: BSLAV

Total Landfill Acreage included in this estimate: 119 Closure 144 Long Term Care

The entire landfill less closed areas (25 Ac +/-), after Fill Phase 10 (the estimated worse case).  
(71.3 acres of top area and 47.7 acres of side slope)

Type of Landfill ☒ Class I ☐ Class III ☐ C&D Debris

#### II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

☐ Letter of Credit\* ☐ Insurance Certificate  
☐ Performance Bond\* ☐ Escrow Account  
☐ Guaranty Bond\* ☐ Trust Fund Agreement

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

Northwest District  
160 Governmental Center  
Pensacola, FL 32501-5794  
850-595-8360

Northeast District  
7825 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7590  
904-448-4300

Central District  
3319 Maguire Blvd., Ste. 232  
Orlando, FL 32803-3767  
407-894-7555

Southwest District  
3804 Coconut Palm Dr.  
Tampa, FL 33619  
813-744-6100

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
941-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-681-6600

DEP002684

40 CFR Part 264 H as adopted by reference in Rule 62-701.603, Florida Administrative Code sets forth the method of annual Cost estimates may be adjusted using an inflation factor or be recalculating the maximum cost of closure in current dollars. Select one of the methods of cost estimate adjustment below.



**(a) Inflation Factor Adjustment**

Inflation adjustments 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 Financial Coordinator at (850) 488-0300.

This adjustment is based on the Department approved closure cost estimate dated: Dec. 13, 2003 (w/renewal application)

Latest Department Approved		Current Year		Inflation Adjusted
<u>\$15,057,616.77</u>	X	<u>1.0300</u>	=	<u>\$15,509,345.27</u>

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		Inflation Adjusted Annual Long-Term Care Cost Estimate
<u>\$776,565.08</u>	X	<u>1.0300</u>	=	<u>\$799,862.03</u>
Number of Years of Long-Term Care Remaining:			X	<u>30</u>
Inflation Adjusted Long-Term Care Cost Estimate:			=	<u>\$23,995,860.97</u>



**(b) Recalculate Estimates (see section V)**

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance 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 long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department **annually**, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Juanitta Bader Clem  
Signature of Engineer

Juanitta Bader Clem, P.E.  
Name & Title (please type)

43245  
Florida Registration Number (affix seal)

14775 St. Augustine Road, Jax. FL 32258  
Mailing Address

(904) 642-8990  
Telephone Number

Greg Mathes  
Signature of Owner/Operator

Greg Mathes, Director of Landfill Operations  
Name & Title (please type)

(904) 289-9100  
Telephone Number

gmathes@wm.com  
Owner/Operator E-Mail Address

clemj@etmnc.com  
Engineer's E-Mail Address



# Florida Department of Environmental Protection

Northeast District Office  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256-7590

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

August 1, 2007

Mr. Greg Mathes  
General Manager  
Trail Ridge Landfill, Inc  
5110 U.S. Highway 301  
Jacksonville, Florida 32234

Re: Trail Ridge Landfill, Inc.  
Modification No. 0013493-014 to Permit No. 0013493-010-SC  
WACS I.D. Number: NED/16/00033628  
Duval County-Solid Waste

Dear Mr. Mathes:

The Florida Department of Environmental Protection (DEP) has received and reviewed your letter request, dated and received May 9, 2007, for a time extension of Permit No. 0013493-010-SC from November 25, 2007, to December 18, 2008, which will allot a full five years from the permit issuance date.

Additionally, DEP has realized that Specific Condition Numbers 10 and 11, each include unintended limitations regarding the entities that can provide the financial assurance and cost estimates. Therefore, DEP herein removes those limitations, and clarifies who all may provide it.

This Notice of Modification alters the permit expiration date, including on the cover page, but does not alter the General Conditions or the Specific Conditions, with the exception of the modification of Specific Condition Numbers 6, 10, and 11. Complete and modified versions of the cover page, and the above-referenced Specific Condition(s) are attached.

**This letter and Attachment 1 must be included as part of the original permit. Attachment 2 shows the additions underlined and the deletions struck-through to the original permit and is included for your convenience.**

Since the proposed time extension and modification are not expected to result in any adverse environmental impact or water quality degradation, the permit is hereby modified as noted. By copy of this letter, we are notifying all necessary parties of the modifications.

This notice of time extension and specific condition modification is final and effective on the date filed with the clerk of DEP unless a timely petition for an administrative hearing is filed

under Sections 120.569 and 120.57, Florida Statutes (FS) before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by DEP's proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, FS. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of DEP at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Petitions by the applicant or any of the parties listed below must be filed within 14 days of receipt of this written notice. Petitions filed by other persons must be filed within 14 days of publication of the notice or receipt of the written notice, whichever occurs first. Under Section 120.60(3), FS, however, any person who asked DEP for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, FS, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, Florida Administrative Code (FAC).

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, DEP file number, and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of DEP's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are or will be affected by DEP's action or proposed action;
- (d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;
- (e) A statement of the ultimate facts alleged, including a statement of the specific facts, which the petitioner contends warrants reversal or modification of DEP's action or proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends requires reversal or modification of DEP's action or proposed action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants DEP to take with respect to DEP's action or proposed action.

A petition that does not dispute the material facts on which DEP's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, FAC.

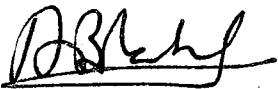
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that DEP's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of DEP have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available in this proceeding.

Any party to this order has the right to seek judicial review of it under Section 120.68, FS, by filing a notice of appeal under Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of DEP in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this order is filed with the clerk of DEP.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



*for*  
\_\_\_\_\_  
Michael J. Fitzsimmons  
Waste Program Administrator

Enclosure

*ECR*  
ECR:jb:cg

Copies furnished to: Juanitta Bader Clem, P.E., England-Thims & Miller, Inc.

#### CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this PERMIT MODIFICATION was mailed before the close of business on August 1, 2007.

FILED on this date pursuant to Section 120.52,  
F.S., with the designated Department Clerk,  
receipt of which is hereby acknowledged.  
*Carla Grate* 8/1/07  
Clerk

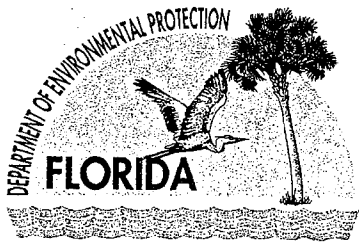
# Florida Department of Environmental Protection

Northeast District Office  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256-7590

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary



**PERMITTEE:**

Trail Ridge Landfill, Inc.  
5110 U.S. Highway 301  
Baldwin, Florida 32234

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: December 19, 2003  
Expiration Date: December 18, 2008  
Lat/Long: 30°14'00"/82°02'30"  
Section/Town/Range: 18,19,20,21/3S/23E  
Project: Trail Ridge Landfill - Class I  
Operation - Renewal of Permit 0013493-002-SC

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (FAC) Chapters 62-4, 62-25, 62-522, 62-550 and 62-701. The above-named Permittee is hereby authorized to perform the work or maintain the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the Department and made a part hereof, and specifically described as follows:

To continue operating the municipal solid waste Class I landfill referred to as the Trail Ridge Landfill. The Trail Ridge Landfill has a total disposal area of approximately 153 acres. The Class I Landfill was constructed in sixteen (16) phases: Phases IA, IB, IC, IIA, IIB, IIC, IIIA, IIIB, IVA, IVB, IIIC, IVC, VA, VB, VC and VD, each of the phases is constructed and authorized to accept waste. Each phase has a double liner system consisting of a primary and secondary liner system, and consists of the following materials, from top to bottom (for the Primary liner system): 24-inch protective soil layer with a minimum permeability of  $1 \times 10^{-3}$  cm/sec; 16 oz. geotextile fabric; 20-mil drainage layer (geonet); 60-mil high density polyethylene (HDPE) primary liner; geosynthetic clay liner (bentonite mat) and (for the Secondary/Leak detection system), 6 oz. geotextile fabric; 20-mil geonet; 60-mil HDPE secondary liner; and a 6-inch compacted subgrade with a maximum saturated hydraulic conductivity of  $1 \times 10^{-5}$  cm/sec. As an exception in Phases IA, IB, IC, IIA, IIB and IIC the GCL is located below the secondary liner as opposed to the primary liner. The 60-mil HDPE primary and secondary liners shall have a maximum water vapor transmission rate of  $0.24 \text{ g/m}^2 \times \text{day}$ . The facility will be operated and closed in phases.

This permit also authorizes the Permittee to construct and operate an active gas collection system and to continue operating a waste tire processing facility.

The facility design includes wetland mitigation, a surface water management system, groundwater and methane gas monitoring systems.

The main entrance to the Trail Ridge Landfill is located on 5110 U.S. Highway 301, in Duval County, Florida.

Frail Ridge Landfill, Inc.

Modification No. 0013493-014 to Permit No. 0013493-010-SC

Page 2

**Specific Condition Number 6 shall now read as follows:**

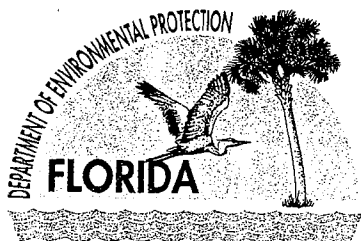
6. **Permit Renewal.** Pursuant to FAC Rule 62-4.090, by October 19, 2008 the Permittee shall apply for a renewal of the permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five (5) years as required by FAC Rule 62-701.330(2).

**Specific Condition Number 10 shall now read as follows:**

10. **Financial Assurance.** The Owner and/or Operator of the landfill shall maintain, in good standing, the financial assurance mechanisms established to demonstrate proof of financial assurance. Support documentation and evidence of inflation adjustment increases shall be submitted within the time frames specified in Rule 62-701.630, F.A.C. All submittals in response to this specific condition shall be sent to:  
Florida Department of Environmental Protection  
Financial Coordinator - Solid Waste Section  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida 32399-

**Specific Condition Number 11 shall now read as follows:**

11. **Annual Cost Estimates.** The Owner and/or Operator of the landfill shall annually adjust the closure cost estimate for inflation using Form 62-701.900(28). Adjustments shall be made in accordance with Rule 62-701.630(4), FAC and 40 CFR Part 264.142(a) and 264.144(a). An owner or operator using a letter of credit, guarantee bond, performance bond, financial test, corporate guarantee, trust fund or insurance shall submit the adjusted cost estimate between January 1 and March 1. An owner or operator using an escrow account shall submit the adjusted estimate between July 1 and September 1 of each year. Closure costs shall include an annual estimate of the remaining life and capacity in cubic yards of the existing constructed landfills, and the remaining capacity and site life of other permitted areas not yet constructed. All submittals in response to this specific condition shall be sent to: Solid Waste Supervisor, Florida Department of Environmental Protection, 7825 Baymeadows Way Suite 200 B, Jacksonville, Florida 32256-7590 with a copy to: Financial Coordinator, Solid Waste Section, Florida Department of Environmental Protection, Mail Station Number 4565, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.



# Florida Department of Environmental Protection

Northeast District Office  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256-7590

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

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Secretary

## PERMITTEE:

Trail Ridge Landfill, Inc.  
5110 U.S. Highway 301  
Baldwin, Florida 32234

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: December 19, 2003  
Expiration Date: December 18, 2008 ~~November 25, 2007~~  
Lat/Long: 30°14'00"/82°02'30"  
Section/Town/Range: 18,19,20,21/3S/23E  
Project: Trail Ridge Landfill - Class I  
Operation - Renewal of Permit 0013493-002-SC

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (FAC) Chapters 62-4, 62-25, 62-522, 62-550 and 62-701. The above-named Permittee is hereby authorized to perform the work or maintain the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the Department and made a part hereof, and specifically described as follows:

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Attachment 2 (cont'd)

Trail Ridge Landfill, Inc.

Modification No. 0013493-014 to Permit No. 0013493-010-SC

Page 2

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Florida Department of Environmental Protection  
Financial Coordinator - Solid Waste Section  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida 32399-

~~The Permittee shall file with the Department a signed duplicate of the escrow account agreement and an annual audit of the account. The audit shall be conducted by an independent Certified Public Accountant and shall be filed no later than December 31 of each year, unless a Single Audit accounting system is utilized, then the audit shall be submitted by March 31 of the following year.~~

**Specific Condition Number 11 shall now read as follows:**

11. **Annual Cost Estimates.** The ~~Owner and/or Operator of the landfill Permittee~~ shall annually adjust the closure cost estimate for inflation using Form 62-701.900(28). Adjustments shall be made in accordance with Rule 62-701.630(4), FAC and 40 CFR Part 264.142(a) and 264.144(a). An owner or operator using a letter of credit, guarantee bond, performance bond, financial test, corporate guarantee, trust fund or insurance shall submit the adjusted cost estimate between January 1 and March 1. An owner or operator using an escrow account shall submit the adjusted estimate between July 1 and September 1 of each year. Closure costs shall include an annual estimate of the remaining life and capacity in cubic yards of the existing constructed landfills, and the remaining capacity and site life of other permitted areas not yet constructed. All submittals in response to this specific condition shall be sent to: Solid Waste Supervisor, Florida Department of Environmental Protection, 7825 Baymeadows Way Suite 200 B, Jacksonville, Florida 32256-7590 with a copy to: Financial Coordinator, Solid Waste Section, Florida Department of Environmental Protection, Mail Station Number 4565, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.



# Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, FL 32399-2400

DEP Form # 62-701.900(23)
Form Title: Financial Assurance Cost Estimate Form
Effective Date:
DEP Application No.
(Filled by DEP)

## FINANCIAL ASSURANCE COST ESTIMATE FORM

SOLID WASTE  
SECTION

AUG 2 1 2007

Date: August 16, 2007

Date of DEP Approval: \_\_\_\_\_

### I. GENERAL INFORMATION:

Facility Name:	<u>Trail Ridge Class I Landfill</u>	WACS or GMSID #: <u>GMS3116P02787</u>
Permit Application No.:	<u>0013493-002-SC (Renewal of SC16-184444)</u>	Expiration Date: <u>November 25, 2007</u>
Facility Address	<u>5110 U.S. Highway 301, Baldwin, Florida 32234</u>	
Permittee:	<u>Trail Ridge Landfill, Inc.</u>	
Mailing Address:	<u>Same as facility address</u>	

Latitude: 30°14'00"N Longitude: 82°02'30"W or UTM: \_\_\_\_\_

### Solid Waste Disposal Units Included in Estimate:

Phase/Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
<u>I - V</u>	<u>144</u>	<u>18-May-92</u>	<u>20 +/- Years</u>

Total Landfill Acreage included in this estimate: 119 Closure 144 Long Term Care

The entire landfill less closed areas (25 Ac +/-), after Fill Phase 10 (the estimated worse case).  
(71.3 acres of top area and 47.7 acres of side slope)

Type of Landfill X Class I    Class III    C&D Debris   

### II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

<u>  </u> Letter of Credit*	<u>  </u> Insurance Certificate
<u>  </u> Performance Bond*	<u>  </u> Escrow Account
<u>  </u> Guaranty Bond*	<u>  </u> Trust Fund Agreement

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

Northwest District  
160 Governmental Center  
Pensacola, FL 32501-5794  
850-595-8360

Northeast District  
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Southwest District  
3804 Coconut Palm Dr.  
Tampa, FL 33619  
813-744-6100

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
941-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-681-6600

DEP002693

Part 264 H as adopted by reference in Rule 62-701.603, Florida Administrative Code sets forth the method of annual estimates may be adjusted using an inflation factor or be recalculating the maximum cost of closure in current dollars. Select one of the methods of cost estimate adjustment below.

☒ (a) Inflation Factor Adjustment

Inflation adjustments 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 Financial Coordinator at (850) 488-0300.

This adjustment is based on the Department approved closure cost estimate dated: Dec. 13, 2003 (w/renewal application)

Latest Department Approved		Current Year		Inflation Adjusted
<u>\$15,057,616.77</u>	X	<u>1.0300</u>	=	<u>\$15,509,345.27</u>

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

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<u>\$776,565.08</u>	X	<u>1.0300</u>	=	<u>\$799,862.03</u>
Number of Years of Long-Term Care Remaining:			X	<u>30</u>
Inflation Adjusted Long-Term Care Cost Estimate:			=	<u>\$23,995,860.97</u>

☐ (b) Recalculate Estimates (see section V)

IV. CERTIFICATION BY ENGINEER

This is to certify that the Financial Assurance 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 long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Juanitta Bader Clem  
Signature of Engineer

Juanitta Bader Clem, P.E.  
Name & Title (please type)

43245  
Florida Registration Number (affix seal)

14775 St. Augustine Road, Jax. FL 32258  
Mailing Address

(904) 642-8990  
Telephone Number

Greg Mathes  
Signature of Owner/Operator

Greg Mathes, Director of Landfill Operations  
Name & Title (please type)

(904) 289-9100  
Telephone Number

gmathes@wm.com  
Owner/Operator E-Mail Address

clemj@etminc.com  
Engineer's E-Mail Address

# Florida Department of

## Memorandum

## Environmental Protection

**TO:** Fred Wick - MS 4565

**THROUGH:** Emerson C. Raulerson, P.E.  
Solid Waste Supervisor *ER*

**FROM:** Julia Boesch, Engineering Specialist *JB*  
Solid Waste Section

**DATE:** March 27, 2007

**SUBJECT:** Trail Ridge Landfill  
Review of the Financial Assurance Annual Cost Adjustments  
Permit Number 0013493-010-SC  
WACS ID Number NED/16/00033628

The Department has completed review of the cost estimates (copy enclosed for your files) submitted on November 6, 2006 (dated November 1, 2006) to comply with the requirements of Florida Administrative Code Chapter 62-701 and the subject permit. The following cost estimates have been approved for the subject facility.

### Active Class I Landfill

**Closure Construction Cost Estimates - \$15,057,616.77**

**Annual Long-Term Care Cost Estimates - \$776,565.08**

**Total Long-Term Care Cost Estimates - \$23,296,952.4 (30 years)**

The above closure construction costs are for 119 acres, whereas the long-term care costs are for 144 acres. Approximately 25 acres of the originally permitted 144 acres have been closed. They are permitted to do "close-as-you-go," and thus far have done four incremental closures, totaling 25 acres.

The following is for your information:

Applicant name: Trail Ridge Landfill, Inc.  
Contact person: Greg Mathes  
Title: Director of Landfill Operations  
Phone number: 904.289.9100

Enclosure

*Y*  
cc: Chris Pearson, City of Jacksonville  
Juanitta Bader Clem, England Thims & Miller



November 1, 2006

STATE OF FLORIDA  
DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION

2006 NOV -6 A 9:59

NORTHEAST DISTRICT  
JACKSONVILLE, FL

**VIA UPS NEXT DAY DELIVERY**

Mary Nogas  
Solid Waste Section Supervisor  
Northeast District Office  
Florida Department of Environmental Protection  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256

(904) 807-3355

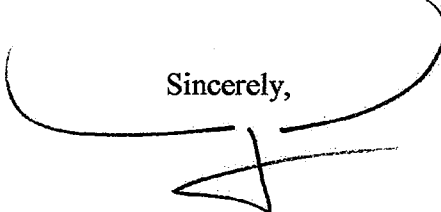
**RE: Trail Ridge Landfill  
Financial Assurance Annual Update  
I.D. Number GMS3116PO2787  
Permit # 0013493-002-SC**

Dear Ms. Nogas:

Please find attached the Financial Assurance Cost Estimate Form for the Trail Ridge Landfill.

If additional information is required, please feel free to contact me at (386) 984-6608 or at [aburson@wm.com](mailto:aburson@wm.com).

Sincerely,



Alfred (Al) L. Burson, Sr.  
Environmental Protection Manager  
Waste Management of North Florida

AB/ab

Attachment

Cc w/ attachment: Frank Hornbrook, Solid Waste Financial Coordinator  
Greg Mathes

North Florida & South Georgia Environmental Protection Department  
5110 U.S. Hwy 301 South Baldwin, Florida 32234 • Telephone: (904) 289-7792 • Fax: (904) 289-9013

DEP002696



# Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, FL 32399-2400

DEP Form # 62-701.900(28)

Form Title: Financial Assurance Cost Estimate Form

Effective Date:

DEP Application No.

(Filled by DEP)

## FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: November 1, 2006

Date of DEP Approval: \_\_\_\_\_

### I. GENERAL INFORMATION:

Facility Name: Trail Ridge Class I Landfill  
Permit Application No.: 0013493-002-SC (Renewal of SC16-184444)  
Facility Address: 5110 U.S. Highway 301, Baldwin, Florida 32234  
Permittee: Trail Ridge Landfill, Inc.  
Mailing Address: Same as facility address

WACS or GMSID #: GMS3116P02787  
Expiration Date: November 25, 2007

Latitude: 30°14'00"N

Longitude: 82°02'30"W

or UTM: \_\_\_\_\_

### Solid Waste Disposal Units Included in Estimate:

Phase/Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
<u>I - V</u>	<u>144</u>	<u>18-May-92</u>	<u>20 +/- Years</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Total Landfill Acreage included in this estimate: 119 Closure 144 Long Term Care

The entire landfill less closed areas (25 Ac +/-), after Fill Phase 10 (the estimated worse case).  
(71.3 acres of top area and 47.7 acres of side slope)

Type of Landfill X Class I \_\_\_\_\_ Class III \_\_\_\_\_ C&D Debris

### II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

\_\_\_\_\_ Letter of Credit\* \_\_\_\_\_ Insurance Certificate  
\_\_\_\_\_ Performance Bond\* \_\_\_\_\_ Escrow Account  
\_\_\_\_\_ Guaranty Bond\* \_\_\_\_\_ Trust Fund Agreement

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

Northwest District  
160 Governmental Center  
Pensacola, FL 32501-5794  
850-595-8360

Northeast District  
7825 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7590  
904-448-4300

Central District  
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Orlando, FL 32803-3767  
407-894-7555

Southwest District  
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Tampa, FL 33619  
813-744-6100

South District  
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Fort Myers, FL 33901-3881  
941-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-681-6600

DEP002697

Part 264 H as adopted by reference in Rule 62-701.603, Florida Administrative Code sets forth the method of annual estimates may be adjusted using an inflation factor or be recalculating the maximum cost of closure in current dollars. Select of the methods of cost estimate adjustment below.

☒

**(a) Inflation Factor Adjustment**

Inflation adjustments 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 Financial Coordinator at (850) 488-0300.

This adjustment is based on the Department approved closure cost estimate dated: Dec. 13, 2003 (w/renewal application)

Latest Department Approved		Current Year		Inflation Adjusted
<u>\$14,619,045.41</u>	X	<u>1.0300</u>	=	<u>\$15,057,616.77</u>

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		Inflation Adjusted Annual Long-Term Care Cost Estimate
<u>\$753,946.68</u>	X	<u>1.0300</u>	=	<u>\$776,565.08</u>
Number of Years of Long-Term Care Remaining:			X	<u>30</u>
Inflation Adjusted Long-Term Care Cost Estimate:			=	<u>\$23,296,952.27</u>

☐

**(b) Recalculate Estimates (see section V)**

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance 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 long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Juanitta Bader Clem  
Signature of Engineer  
11/1/06

Juanitta Bader Clem, P.E.  
Name & Title (please type)

43245  
Florida Registration Number (affix seal)

14775 St. Augustine Road, Jax. FL 32258  
Mailing Address

(904) 642-8990  
Telephone Number

Greg Mathes  
Signature of Owner/Operator

Greg Mathes, Director of Landfill Operations  
Name & Title (please type)

(904) 289-9100  
Telephone Number

gmathes@wm.com  
Owner/Operator E-Mail Address

clemj@etminc.com  
Engineer's E-Mail Address

# Florida Department of Environmental Protection

## Memorandum

**TO:** Fred Wick - MS 4565

**THROUGH:** Emerson C. Raulerson, P.E.  
Solid Waste Section *ECR*

**FROM:** Julia Boesch, Engineering Specialist  
Solid Waste Section

**DATE:** January 17, 2006

**SUBJECT:** Trail Ridge Landfill  
Review of the Financial Assurance Annual Cost Adjustments  
Permit No. Permit Number: 0013493-010-SC

The Department has completed review of the cost estimates (copy enclosed for your files), submitted on November 30, 2005, to comply with the requirements of Florida Administrative Code Chapter 62-701 and the subject permit. The following cost estimates have been approved for the subject facility.

### Active Class I Landfill

**Closure Construction Cost Estimates - \$14,619,045.41**

**Annual Long-Term Care Cost Estimates - \$753,946.68**

**Total Long-Term Care Cost Estimates - \$22,618,400.40 (30 years)**

The above closure construction costs are for 119 acres, whereas the long-term care costs are for 144 acres. Approximately 25 acres of the originally permitted 144 acres have been closed. They are permitted to do close-as-you-go, and thus far have done 4 incremental closures, totaling 25 acres.

The following is for your information:

Applicant name: Trail Ridge Landfill, Inc.  
Contact person: Greg Mathes  
Title: District Manager  
Phone number: 904.289.9100

JB/ml *ml*

Enclosure

cc Chris Pearson, City of Jacksonville  
Juanitta Bader Clem, England Thims & Miller



# RECEIVED

Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, FL 32399-2400

NOV 30 2005

## FINANCIAL ASSURANCE COST ESTIMATE FORM

STATE OF FLORIDA  
DEPARTMENT OF ENV. PROTECTION  
NORTHEAST DISTRICT - JACKSONVILLE

DEP Form # 62-701.900(28)

Form Title: Financial Assurance Cost Estimate Form

Effective Date:

DEP Application No.

(Filled by DEP)

Date: November 15, 2005

Date of DEP Approval: \_\_\_\_\_

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Facility Name: Trail Ridge Class I Landfill  
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Facility Address: 5110 U.S. Highway 301, Baldwin, Florida 32234  
Permittee: Trail Ridge Landfill, Inc.  
Mailing Address: Same as facility address

WACS or GMSID #: GMS3116P02787

Expiration Date: November 25, 2007

Latitude: 30°14'00"N

Longitude: 82°02'30"W

or UTM: \_\_\_\_\_

### Solid Waste Disposal Units Included in Estimate:

Phase/Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
I - V	144	18-May-92	20 +/- Years

Total Landfill Acreage included in this estimate: 119 Closure 144 Long Term Care

The entire landfill less closed areas (25 Ac +/-), after Fill Phase 10 (the estimated worse case).  
(71.3 acres of top area and 47.7 acres of side slope)

Type of Landfill X Class I \_\_\_\_\_ Class III \_\_\_\_\_ C&D Debris

### II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

\_\_\_\_ Letter of Credit\* \_\_\_\_\_ Insurance Certificate  
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941-332-6975

Southeast District  
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West Palm Beach, FL 33401  
561-681-6600

DEP002700

49 CFR Part 264 H as adopted by reference. Rule 62-701.603, Florida Administrative Code sets the method of annual Cost estimates may be adjusted using an inflation factor or be recalculating the maximum cost of closure in current dollars. Select one of the methods of cost estimate adjustment below.



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This adjustment is based on the Department approved closure cost estimate dated: Dec. 13, 2003 (w/renewal application)

Latest Department Approved		Current Year		Inflation Adjusted
<u>\$14,332,397.46</u>	X	<u>1.0200</u>	=	<u>\$14,619,045.41</u>

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

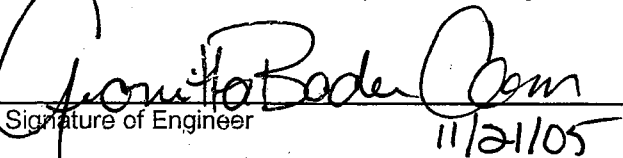
Latest Department Approved Annual Long-Term Care Cost Estimate		Current Year Inflation Factor		Inflation Adjusted Annual Long-Term Care Cost Estimate
<u>\$739,163.41</u>	X	<u>1.0200</u>	=	<u>\$753,946.68</u>
Number of Years of Long-Term Care Remaining:			X	<u>30</u>
Inflation Adjusted Long-Term Care Cost Estimate:			=	<u>\$22,618,400.26</u>



**(b) Recalculate Estimates (see section V)**

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance 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 long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department **annually**, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

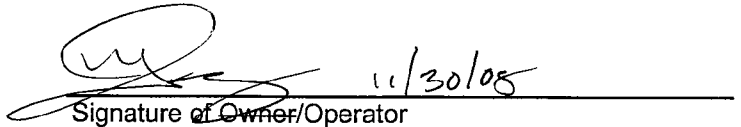
  
Signature of Engineer

Juanitta Bader Clem, P.E.  
Name & Title (please type)

43245  
Florida Registration Number (affix seal)

14775 St. Augustine Road, Jax. FL 32258  
Mailing Address

(904) 642-8990  
Telephone Number

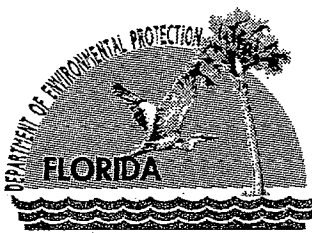
  
Signature of Owner/Operator

Greg Mathes, Director of Landfill Operations  
Name & Title (please type)

(904) 289-9100  
Telephone Number

gmathes@wm.com  
Owner/Operator E-Mail Address

clemj@etminc.com  
Engineer's E-Mail Address



# Department of Environmental Protection

Jeb Bush  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Colleen M. Castille  
Secretary

November 29, 2005

L. Chris Pearson  
Operations Manager  
Environmental Resource Management Department  
Solid Waste Division  
1031 Superior Street  
Jacksonville, FL 32254

Re: **Trail Ridge Landfill**  
**Cost estimates**  
**I. D. Number: NED/16/00033628**  
**Permit Number: 0013493-010-SC**  
**Duval County**

Dear Mr. Pearson:

The Department has received your letter, dated September 1, 2004 (an apparent typographical error), and received September 2, 2005, and has the following comments. Concerning your first issue in which you request guidance on what estimate to provide, please be advised that the cost estimates expected by the Department are for a one time final closure to reflect the cost to close the facility during the time it is expected to cost the most, based on your operations and phasing plan. If the Permittee walks away from the site, the Department expects to step in and close the facility, rather than continue to operate and close the facility in phases as the facility is permitted to do and is now doing. Of course, if the Permittee chooses to provide cost estimates covering the cost to do the incremental closures, and they are more than the one time final closure cost, the Department would not reject those estimates.

Concerning your second issue as to what party should sign the Financial Assurance Cost Estimate Form, the short answer is the Permittee. Based on FAC Rule 62-701.630(1), the owner or operator is to provide cost estimates, demonstrate and provide proof of financial assurance to the Department and to follow the applicable requirements of that rule in providing these items. Additionally, FAC Rule 62-701.630(1)(a) states the following: "Owner or operator" means, in addition to the usual meanings of the term, any owner of record of any interest in land whereon a landfill is or has been located and any person or corporation that owns a majority interest in any other corporation that is the owner or operator of a landfill. In addition to being the owner or operator, the entity that provides the cost estimates, financial assurance, and supporting documentation, should also be the Permittee. In the case of the Trail Ridge Landfill facility, as of the date of this letter, the operator and Permittee is Trail Ridge Landfill, Inc. The Department expects the Permittee to provide and sign the cost estimates by December 1, 2005, and the financial assurance by February 1, 2006.

*"More Protection, Less Process"*

*Printed on recycled paper.*

DEP002702

Mr. L. Chris Pearson  
November 29, 2005  
Page two


I hope this letter addresses and answers your questions.

If you have any comments concerning this matter, please contact Julia Boesch or me at the letterhead address or telephone numbers 904.807.3356 or 904.807.3365, respectively.

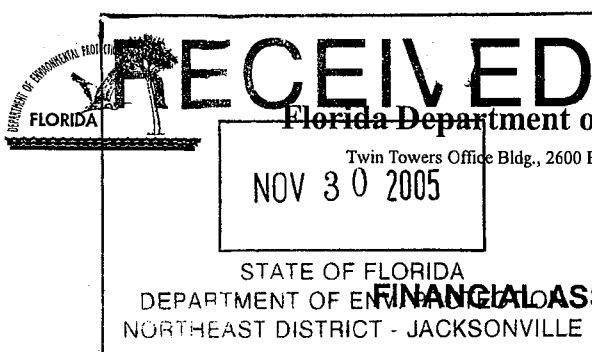
Sincerely,

A handwritten signature in cursive script, appearing to read "Emerson Raulerson".

Emerson Raulerson, P. E.  
Solid Waste Section

JB/ml 

cc Tom Clayton, Esq.



DEP Form # 62-701.900(28)  
Form Title: Financial Assurance Cost Estimate Form  
Effective Date:  
DEP Application No.  
(Filled by DEP)

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**FINANCIAL ASSURANCE COST ESTIMATE FORM**  
NORTHEAST DISTRICT - JACKSONVILLE

Date: November 15, 2005 Date of DEP Approval: \_\_\_\_\_

**I. GENERAL INFORMATION:**

Facility Name: Trail Ridge Class I Landfill WACS or GMSID #: GMS3116P02787  
Permit Application No.: 0013493-002-SC (Renewal of SC16-184444) Expiration Date: November 25, 2007  
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Permittee: Trail Ridge Landfill, Inc.  
Mailing Address: Same as facility address

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**Solid Waste Disposal Units Included in Estimate:**

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_____	_____	_____	_____
_____	_____	_____	_____
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(71.3 acres of top area and 47.7 acres of side slope)

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**II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)**

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DEP002704

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Juanitta Bader Clem  
Signature of Engineer

Juanitta Bader Clem, P.E.  
Name & Title (please type)

43245  
Florida Registration Number (affix seal)

14775 St. Augustine Road, Jax. FL 32258  
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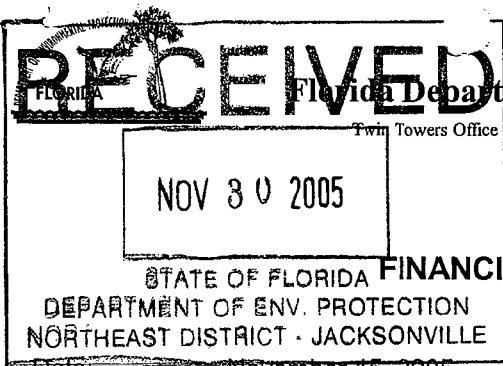
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gmathes@wm.com  
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clemj@etminc.com  
Engineer's E-Mail Address



13493

DEP Form # 62-701.900(28)  
Form Title: Financial Assurance Cost Estimate Form  
Effective Date:  
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STATE OF FLORIDA FINANCIAL ASSURANCE COST ESTIMATE FORM

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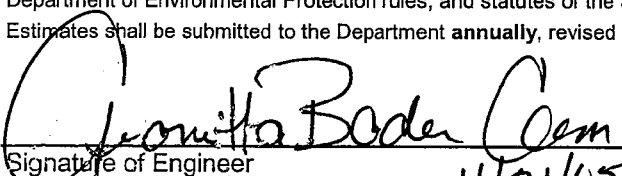
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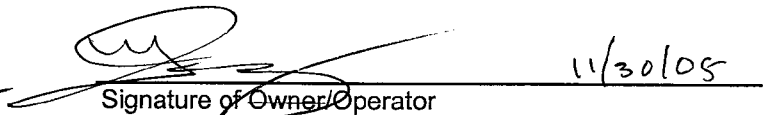
  
Signature of Engineer

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(904) 642-8990  
Telephone Number

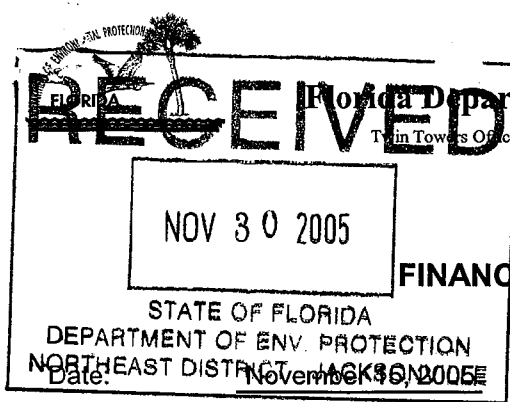
  
Signature of Owner/Operator

Greg Mathes, Director of Landfill Operations  
Name & Title (please type)

(904) 289-9100  
Telephone Number

gmathes@wm.com  
Owner/Operator E-Mail Address

clemj@etminc.com  
Engineer's E-Mail Address



# Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, FL 32399-2400

DEP Form # 62-701.900(28)

Form Title: Financial Assurance Cost Estimate Form

Effective Date:

DEP Application No.

(Filled by DEP)

13493

## FINANCIAL ASSURANCE COST ESTIMATE FORM

Date of DEP Approval: \_\_\_\_\_

### I. GENERAL INFORMATION:

Facility Name: Trail Ridge Class I Landfill WACS or GMSID #: GMS3116P02787  
Permit Application No.: 0013493-002-SC (Renewal of SC16-184444) Expiration Date: November 25, 2007  
Facility Address: 5110 U.S. Highway 301, Baldwin, Florida 32234  
Permittee: Trail Ridge Landfill, Inc.  
Mailing Address: Same as facility address

Latitude: 30°14'00"N

Longitude: 82°02'30"W

or UTM: \_\_\_\_\_

### Solid Waste Disposal Units Included in Estimate:

Phase/Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
I - V	144	18-May-92	20 +/- Years

Total Landfill Acreage included in this estimate: 119 Closure 144 Long Term Care

The entire landfill less closed areas (25 Ac +/-), after Fill Phase 10 (the estimated worse case).  
(71.3 acres of top area and 47.7 acres of side slope)

Type of Landfill X Class I   Class III   C&D Debris

### II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

  Letter of Credit\*   Insurance Certificate  
  Performance Bond\*   Escrow Account  
✓ Guaranty Bond\*   Trust Fund Agreement

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

Northwest District  
160 Governmental Center  
Pensacola, FL 32501-5794  
850-595-8360

Northeast District  
7825 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7590  
904-448-4300

Central District  
3319 Maguire Blvd., Ste. 232  
Orlando, FL 32803-3767  
407-894-7555

Southwest District  
3804 Coconut Palm Dr.  
Tampa, FL 33619  
813-744-6100

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
941-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-681-6600

DEP002708

40 CFR Part 264 H as adopted by reference in Rule 62-701.603, Florida Administrative Code sets forth the method of annual Cost estimates may be adjusted using an inflation factor or be recalculating the maximum cost of closure in current dollars. Select one of the methods of cost estimate adjustment below.

☒ (a) Inflation Factor Adjustment

Inflation adjustments 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 Financial Coordinator at (850) 488-0300.

This adjustment is based on the Department approved closure cost estimate dated: Dec. 13, 2003 (w/renewal application)

Latest Department Approved		Current Year		Inflation Adjusted
<u>\$14,332,397.46</u>	X	<u>1.0200</u>	=	<u>\$14,619,045.41</u>

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		Inflation Adjusted Annual Long-Term Care Cost Estimate
<u>\$739,163.41</u>	X	<u>1.0200</u>	=	<u>\$753,946.68</u>
Number of Years of Long-Term Care Remaining:			X	<u>30</u>
Inflation Adjusted Long-Term Care Cost Estimate:			=	<u>\$22,618,400.26</u>

☐ (b) Recalculate Estimates (see section V)

#### IV. CERTIFICATION BY ENGINEER

This is to certify that the Financial Assurance 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 long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department **annually**, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Juanitta Bader Clem  
Signature of Engineer

Juanitta Bader Clem, P.E.  
Name & Title (please type)

43245  
Florida Registration Number (affix seal)

14775 St. Augustine Road, Jax. FL 32258  
Mailing Address

(904) 642-8990  
Telephone Number

Greg Mathes 11/30/05  
Signature of Owner/Operator

Greg Mathes, Director of Landfill Operations  
Name & Title (please type)

(904) 289-9100  
Telephone Number

gmathes@wm.com  
Owner/Operator E-Mail Address

clemj@etmnc.com  
Engineer's E-Mail Address



Jeb Bush  
Governor

# Department of Environmental Protection

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Colleen M. Castille  
Secretary

November 29, 2005

L. Chris Pearson  
Operations Manager  
Environmental Resource Management Department  
Solid Waste Division  
1031 Superior Street  
Jacksonville, FL 32254

Re: **Trail Ridge Landfill**  
**Cost estimates**  
**I. D. Number: NED/16/00033628**  
**Permit Number: 0013493-010-SC**  
**Duval County**

Dear Mr. Pearson:

The Department has received your letter, dated September 1, 2004 (an apparent typographical error), and received September 2, 2005, and has the following comments. Concerning your first issue in which you request guidance on what estimate to provide, please be advised that the cost estimates expected by the Department are for a one time final closure to reflect the cost to close the facility during the time it is expected to cost the most, based on your operations and phasing plan. If the Permittee walks away from the site, the Department expects to step in and close the facility, rather than continue to operate and close the facility in phases as the facility is permitted to do and is now doing. Of course, if the Permittee chooses to provide cost estimates covering the cost to do the incremental closures, and they are more than the one time final closure cost, the Department would not reject those estimates.

Concerning your second issue as to what party should sign the Financial Assurance Cost Estimate Form, the short answer is the Permittee. Based on FAC Rule 62-701.630(1), the owner or operator is to provide cost estimates, demonstrate and provide proof of financial assurance to the Department and to follow the applicable requirements of that rule in providing these items. Additionally, FAC Rule 62-701.630(1)(a) states the following: "Owner or operator" means, in addition to the usual meanings of the term, any owner of record of any interest in land whereon a landfill is or has been located and any person or corporation that owns a majority interest in any other corporation that is the owner or operator of a landfill. In addition to being the owner or operator, the entity that provides the cost estimates, financial assurance, and supporting documentation, should also be the Permittee. In the case of the Trail Ridge Landfill facility, as of the date of this letter, the operator and Permittee is Trail Ridge Landfill, Inc. The Department expects the Permittee to provide and sign the cost estimates by December 1, 2005, and the financial assurance by February 1, 2006.

*"More Protection, Less Process"*

*Printed on recycled paper.*

DEP002710

Mr. L. Chris Pearson  
November 29, 2005  
Page two


I hope this letter addresses and answers your questions.

If you have any comments concerning this matter, please contact Julia Boesch or me at the letterhead address or telephone numbers 904.807.3356 or 904.807.3365, respectively.

Sincerely,

A handwritten signature in black ink, appearing to read "Emerson Raulerson", written in a cursive style.

Emerson Raulerson, P. E.  
Solid Waste Section

JB/ml 

cc Tom Clayton, Esq.

## Nogas, Mary

---

**From:** Mathes, Greg [gmathes@wm.com]  
**Sent:** Wednesday, November 30, 2005 11:33 AM  
**To:** Nogas, Mary  
**Cc:** Boesch, Julia  
**Subject:** RE: trail ridge financial assurance



finan. assur.pdf

Mary. Thank you for the clarification. The signed Financial Assurance Form will be delivered to your attention today. A copy of the unsigned form is attached. Trail Ridge Landfill will deliver the financial instrument to Fred Wick within the 60 day time period with a copy to your attention. Again, Thanks, Greg.

-----Original Message-----

**From:** Nogas, Mary [mailto:Mary.Nogas@dep.state.fl.us]  
**Sent:** Tuesday, November 29, 2005 10:44 AM  
**To:** Mathes, Greg  
**Cc:** Boesch, Julia  
**Subject:** RE: trail ridge financial assurance

Fred Wick just corrected me -- You have 60 days, not 30 days, to provide the financial instrument (regardless of Department response).

-----Original Message-----

**From:** Nogas, Mary  
**Sent:** Monday, November 28, 2005 6:47 AM  
**To:** 'Mathes, Greg'  
**Cc:** Boesch, Julia; Wick, Fred  
**Subject:** RE: trail ridge financial assurance

My understanding of the procedure is that the Permittee is obligated to submit the financial instrument within 30 days of submitting the updated cost estimate, whether or not any response from the Department. Fred, if I am incorrect, please advise.

-----Original Message-----

**From:** Mathes, Greg [mailto:gmathes@wm.com]  
**Sent:** Tuesday, November 22, 2005 10:43 PM  
**To:** Nogas, Mary  
**Subject:** RE: trail ridge financial assurance

Hi Mary.

I appreciate your inquiry. Currently I am on vacation and will return on November 30, 2005. Trail Ridge Landfill will provide the Financial Assurance and Post Closure cost estimate form to your office by December 01, 2005 as we are the permittee. We will work out the contractual obligation the City has to Trail ridge Landfill Inc. directly with the City. It is my understanding that once your office approves the cost estimate for closure/post closure

care you will then notify

Trail Ridge Landfill Inc. of the acceptability of the document. Trail Ridge Landfill Inc. will then submit the appropriate instrument to the Tallahassee Office (Fred Wick) with a copy to you. Please let me know if this is not the correct procedure. Thank you for your patience and understanding in this matter. In the event you need to reach me please do not hesitate to contact me. My cell # is (904) 591-6113.

Greg.

-----Original Message-----

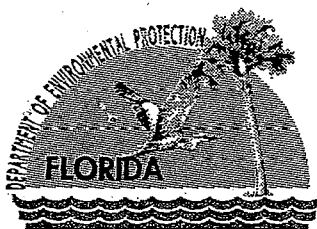
From: Nogas, Mary [mailto:Mary.Nogas@dep.state.fl.us]

Sent: Monday, November 21, 2005 8:27 AM

To: Mathes, Greg

Subject: trail ridge financial assurance

before we send this -- did i misunderstand your position? <<CityInt\$.doc>>



# Department of Environmental Protection

Jeb Bush  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Colleen M. Castille  
Secretary

November 29, 2005

L. Chris Pearson  
Operations Manager  
Environmental Resource Management Department  
Solid Waste Division  
1031 Superior Street  
Jacksonville, FL 32254

Re: **Trail Ridge Landfill**  
**Cost estimates**  
**I. D. Number: NED/16/00033628**  
**Permit Number: 0013493-010-SC**  
**Duval County**

Dear Mr. Pearson:

The Department has received your letter, dated September 1, 2004 (an apparent typographical error), and received September 2, 2005, and has the following comments. Concerning your first issue in which you request guidance on what estimate to provide, please be advised that the cost estimates expected by the Department are for a one time final closure to reflect the cost to close the facility during the time it is expected to cost the most, based on your operations and phasing plan. If the Permittee walks away from the site, the Department expects to step in and close the facility, rather than continue to operate and close the facility in phases as the facility is permitted to do and is now doing. Of course, if the Permittee chooses to provide cost estimates covering the cost to do the incremental closures, and they are more than the one time final closure cost, the Department would not reject those estimates.

Concerning your second issue as to what party should sign the Financial Assurance Cost Estimate Form, the short answer is the Permittee. Based on FAC Rule 62-701.630(1), the owner or operator is to provide cost estimates, demonstrate and provide proof of financial assurance to the Department and to follow the applicable requirements of that rule in providing these items. Additionally, FAC Rule 62-701.630(1)(a) states the following: "Owner or operator" means, in addition to the usual meanings of the term, any owner of record of any interest in land whereon a landfill is or has been located and any person or corporation that owns a majority interest in any other corporation that is the owner or operator of a landfill. In addition to being the owner or operator, the entity that provides the cost estimates, financial assurance, and supporting documentation, should also be the Permittee. In the case of the Trail Ridge Landfill facility, as of the date of this letter, the operator and Permittee is Trail Ridge Landfill, Inc. The Department expects the Permittee to provide and sign the cost estimates by December 1, 2005, and the financial assurance by February 1, 2006.

*"More Protection, Less Process"*

*Printed on recycled paper.*

DEP002714

Mr. L. Chris Pearson  
November 29, 2005  
Page two

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I hope this letter addresses and answers your questions.

If you have any comments concerning this matter, please contact Julia Boesch or me at the letterhead address or telephone numbers 904.807.3356 or 904.807.3365, respectively.

Sincerely,



Emerson Raulerson, P. E.  
Solid Waste Section

JB/ml 

cc Tom Clayton, Esq.

**Nogas, Mary**

---

**From:** Burson, Al [ABurson@wm.com]  
**Sent:** Wednesday, August 31, 2005 12:30 PM  
**To:** Wick, Fred  
**Cc:** Mathes, Greg; Nogas, Mary  
**Subject:** Trail Ridge Landfill

Dear Mr. Wick:

Trail Ridge Landfill (I.D. Number GMS3116PO2787, Permit # 0013493-002-SC) utilizes an escrow account for financial assurance. The landfill is operated by Waste Management and owned by the City of Jacksonville.

In the past, the City of Jacksonville has submitted the closure and post closure costs for the landfill based upon information provided by an independent engineer. The closure and post closure costs are due to the Florida Department of Environmental Protection by September 1st of each year.

Even though Waste Management has agreed with the information provided by the engineer, the City of Jacksonville has expressed some concerns about the closure amount. Because of this, the annual financial assurance documentation will not be submitted by the September 1st deadline.

On behalf of Trail Ridge Landfill, Waste Management is requesting a one month (to October 1, 2005) extension to submit the financial assurance documentation to the Florida Department of Environmental Protection. Waste Management is working with the City of Jacksonville to resolve this issue as soon as possible and submit the appropriate documentation.

If additional information is required, please feel free to contact me at aburson@wm.com or at (386) 984-6608.

Al

Al Burson  
Environmental Protection Manager  
North Florida  
☎ (386) 984-6608  
✉ aburson@wm.com

9/1/2005

DEP002716

**Nogas, Mary**

---

**From:** Nogas, Mary  
**Sent:** Wednesday, September 21, 2005 11:43 AM  
**To:** 'Burson, Al'  
**Cc:** Mathes, Greg; Boesch, Julia; Raulerson, Emerson  
**Subject:** RE: Trail Ridge Landfill

Your request for an extension to submit the annual cost estimates is acceptable to the Department. The City and your consultant have been in contact with us, and it appears that the issues may need even more time than requested; please be aware that an extension until December 1 is acceptable, if needed.

-----Original Message-----

**From:** Burson, Al [mailto:ABurson@wm.com]  
**Sent:** Wednesday, August 31, 2005 12:30 PM  
**To:** Wick, Fred  
**Cc:** Mathes, Greg; Nogas, Mary  
**Subject:** Trail Ridge Landfill

Dear Mr. Wick:

Trail Ridge Landfill (I.D. Number GMS3116PO2787, Permit # 0013493-002-SC) utilizes an escrow account for financial assurance. The landfill is operated by Waste Management and owned by the City of Jacksonville.

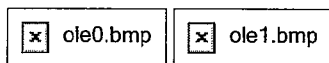
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If additional information is required, please feel free to contact me at aburson@wm.com or at (386) 984-6608.

Al



**Al Burson**  
**Environmental Protection Manager**  
**North Florida**  
☎ (386) 984-6608  
✉ aburson@wm.com

9/21/2005

DEP002717



Jeb Bush  
Governor

# Department of Environmental Protection

Twin Towers Office Building  
2600 Blair Stone Road MS 4565  
Tallahassee, Florida 32399-2400

Colleen M. Castille  
Secretary

May 9, 2005

Mr. Kevin Stork  
City Controller  
117 W. Duval Street, Suite 375  
Jacksonville, Florida 32202

Re: GMS 3116P02787 - Trail Ridge Landfill  
GMS 3116M10016 - North Duval Landfill  
GMS 3116M10002 - East Duval Landfill

Dear Mr. Stork:

I reviewed the fiscal year end 2004 Independent Auditor's Report submitted to demonstrate financial assurance for the above referenced facilities. The September 30, 2004 escrow balances of \$786,465 for North Duval Landfill, \$336,145 for East Duval Landfill and \$25,195,731 for Trail Ridge Landfill adequately meets the funding requirements of Rule 62-701.630, Florida Administrative Code (F.A.C.). Therefore, the above referenced facilities are in compliance with the financial assurance requirements of Rule 62-701.630, F.A.C., at this time.

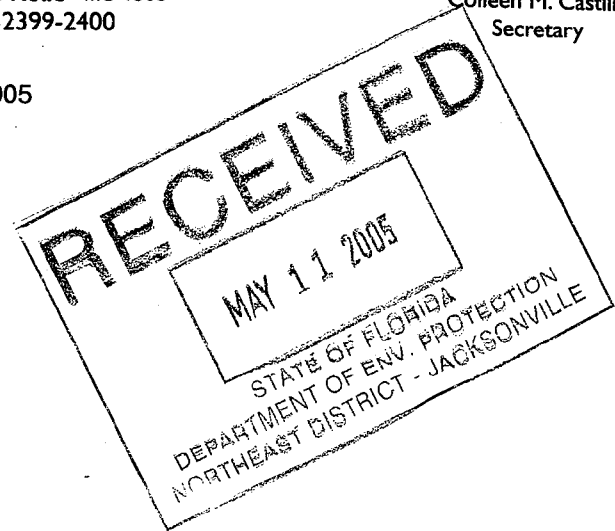
If you have any questions, please contact me at (850) 245-8732.

Sincerely,

Frank Hornbrook  
Environmental Specialist  
Solid Waste Section

FH

cc: Fred Wick, DEP/TLH  
Mary Nogas, DEP/JAX



Visit our Web Site: <http://www.dep.state.fl.us/waste/categories/swfr/>  
"More Protection, Less Process"

Printed on recycled paper.

DEP002718



Jeb Bush  
Governor

# Department of Environmental Protection

Twin Towers Office Building  
2600 Blair Stone Road MS 4585  
Tallahassee, Florida 32399-2400

Colleen M. Castille  
Secretary

May 3, 2005

Mr. Kevin Stork  
City Controller  
117 W. Duval Street, Suite 375  
Jacksonville, Florida 32202

Re: GMS 3116P02787 - Trail Ridge Landfill  
GMS 3116M10016 - North Duval Landfill  
GMS 3116M10002 - East Duval Landfill

Dear Mr. Stork:

I reviewed the fiscal year end 2004 Independent Auditor's Report submitted to demonstrate financial assurance for the above referenced facilities. The September 30, 2004 escrow balances of \$786,465 for North Duval Landfill, \$336,145 for East Duval Landfill and \$25,195,731 for Trail Ridge Landfill adequately meets the funding requirements of Rule 62-701.630, Florida Administrative Code (F.A.C.). Therefore, the above referenced facilities are in compliance with the financial assurance requirements of Rule 62-701.630, F.A.C., at this time.

In future audits, please specify where the restricted cash in the landfill management escrow account is deposited. The audit does not clearly state that the funds are on deposit with the State Board of Administration, a bank or trust operation. Please be aware that these funds may not be part of the City's pooled investments. They may be part of the City's pooled cash as long as the funds are restricted cash deposits in an interest bearing account with a financial institution as referenced above. If you have any questions, please contact me at (850) 245-8732.

Sincerely,

Frank Hornbrook  
Environmental Specialist  
Solid Waste Section

FH

cc: Fred Wick, DEP/TLH  
Mary Nogas, DEP/JAX  
Ernst & Young, JAX

Visit our Web Site: <http://www.dep.state.fl.us/waste/categories/swfir>

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DEP002719

**DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**Interoffice Memorandum**

---

**NORTHEAST DISTRICT - JACKSONVILLE**

TO: Fred Wick – MS 4565  
THROUGH: Mary Nogas, P.E. *MN*  
FROM: *JB* Julia Boesch  
Solid Waste Engineer  
DATE: October 13, 2004  
SUBJECT: Trail Ridge Landfill  
Review of the Financial Assurance Annual Cost Adjustments  
Permit No. Permit Number: 0013493-010-SC

---

The Department has completed review of the cost estimates (copy enclosed for your files) provided on August 23, 2004 (dated August 12, 2004) to comply with the requirements of Florida Administrative Code Chapter 62-701. The following cost estimates have been approved for the subject facility (2004 cost estimates):

**Active Class I Landfill**

**Closure Construction Cost Estimates - \$14,332,397.46**

**Annual Long-Term Care Cost Estimates - \$739,163.41**

**Total Long-Term Care Cost Estimates - \$22,174,902.21 (30 years)**

The following is for your information:

Applicant name: Trail Ridge Landfill, Inc.  
Contact person: Greg Mathes  
Title: District Manager  
Phone number: (904) 289-9100

MCN:jb:ml *ml*

Enclosures

cc: Chris Pearson, City of Jacksonville  
Juanitta Bader Clem, England Thims & Miller

DEP002720



# Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, FL 32399-2400

DEP Form # 62-701.900(28)

Form Title: Financial Assurance Cost Estimate Form

Effective Date:

DEP Application No.

(Filled by DEP)

## FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: August 12, 2004

Date of DEP Approval: \_\_\_\_\_

### I. GENERAL INFORMATION:

Facility Name: Trail Ridge Class I Landfill WACS or GMSID #: GMS3116P02787  
Permit Application No.: 0013493-002-SC (Renewal of SC16-184444) Expiration Date: November 25, 2007  
Facility Address: 5110 U.S. Highway 301, Baldwin, Florida 32234  
Permittee: Trail Ridge Landfill, Inc.  
Mailing Address: Same as facility address

Latitude: 30°14'00"N Longitude: 82°02'30"W or UTM: \_\_\_\_\_

### Solid Waste Disposal Units Included in Estimate:

Phase/Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
<u>I - V</u>	<u>144</u>	<u>18-May-92</u>	<u>20 +/- Years</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Total Landfill Acreage included in this estimate: 119 Closure 144 Long Term Care

The entire landfill less closed areas (25 Ac +/-), after Fill Phase 10 (the estimated worse case).  
(71.3 acres of top area and 47.7 acres of side slope)

Type of Landfill X Class I \_\_\_\_\_ Class III \_\_\_\_\_ C&D Debris

### II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

\_\_\_\_\_ Letter of Credit\* \_\_\_\_\_ Insurance Certificate  
\_\_\_\_\_ Performance Bond\* X Escrow Account  
\_\_\_\_\_ Guaranty Bond\* \_\_\_\_\_ Trust Fund Agreement

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

Northwest District  
160 Governmental Center  
Pensacola, FL 32501-5794  
850-595-8360

Northeast District  
7825 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7590  
904-448-4300

Central District  
3319 Maguire Blvd., Ste. 232  
Orlando, FL 32803-3767  
407-894-7555

Southwest District  
3804 Coconut Palm Dr.  
Tampa, FL 33619  
813-744-6100

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
941-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-681-6600

DEP002721

40 CFR Part 264 H as adopted by reference in Rule 62-701.603, Florida Administrative Code sets forth the method of annual Cost estimates may be adjusted using an inflation factor or be recalculating the maximum cost of closure in current dollars. Select one of the methods of cost estimate adjustment below.



**(a) Inflation Factor Adjustment**

Inflation adjustments 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 Financial Coordinator at (850) 488-0300.

This adjustment is based on the Department approved closure cost estimate dated: Dec. 13, 2003 (w/renewal application)

Latest Department Approved		Current Year		Inflation Adjusted
<u>\$14,120,588.63</u>	X	<u>1.0150</u>	=	<u>\$14,332,397.46</u>

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		Inflation Adjusted Annual Long-Term Care Cost Estimate
<u>\$728,239.81</u>	X	<u>1.0150</u>	=	<u>\$739,163.41</u>
Number of Years of Long-Term Care Remaining:			X	<u>30</u>
Inflation Adjusted Long-Term Care Cost Estimate:			=	<u>\$22,174,902.21</u>



**(b) Recalculate Estimates (see section V)**

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance 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 long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department **annually**, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Juanitta Bader Clem  
Signature of Engineer

Juanitta Bader Clem, P.E.  
Name & Title (please type)

43245  
Florida Registration Number (affix seal)

14775 St. Augustine Road, Jax. FL 32258  
Mailing Address

(904) 642-8990  
Telephone Number

Chris Pearson  
Signature of Owner/Operator

Chris Pearson, Operations Manager  
Name & Title (please type)

(904) 630-4593  
Telephone Number

chrisp@coj.net  
Owner/Operator E-Mail Address

clemj@etminc.com  
Engineer's E-Mail Address

RECEIVED

SEP 02 2005

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Interoffice Memorandum

NORTHEAST DISTRICT - JACKSONVILLE

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
NORTHEAST DISTRICT - JACKSONVILLE

TO: Fred Wick - MS 4565  
THROUGH: Mary Nogas, P.E. *MN*  
FROM: *JB* Julia Boesch  
Solid Waste Engineer  
DATE: October 13, 2004  
SUBJECT: Trail Ridge Landfill  
Review of the Financial Assurance Annual Cost Adjustments  
Permit No. Permit Number: 0013493-010-SC

The Department has completed review of the cost estimates (copy enclosed for your files) provided on August 23, 2004 (dated August 12, 2004) to comply with the requirements of Florida Administrative Code Chapter 62-701. The following cost estimates have been approved for the subject facility (2004 cost estimates):

Active Class I Landfill

Closure Construction Cost Estimates - \$14,332,397.46

Annual Long-Term Care Cost Estimates - \$739,163.41

Total Long-Term Care Cost Estimates - \$22,174,902.21 (30 years)

The following is for your information:

Applicant name: Trail Ridge Landfill, Inc.  
Contact person: Greg Mathes  
Title: District Manager  
Phone number: (904) 289-9100

MCN:jb:ml *ml*

Enclosures

cc: Chris Pearson, City of Jacksonville  
Juanita Bader Clem, England Thims & Miller



# Florida Department of Environmental Protection

Twin Towers Office Bldg., 2680 Blair Stone Road, Tallahassee, FL 32399-2400

DEP Form # 62-708-890228  
Form Title: Financial Assurance Cost Estimate Form  
Effective Date:  
DEP Application No.  
(Filled by DEP)

## FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: August 12, 2004

Date of DEP Approval: \_\_\_\_\_

### I. GENERAL INFORMATION:

Facility Name: Trail Ridge Class I Landfill  
Permit Application No.: 0013493-002-SC (Renewal of SC18-184444)  
Facility Address: 5110 U.S. Highway 301, Baldwin, Florida 32234  
Permittee: Trail Ridge Landfill, Inc.  
Mailing Address: Same as facility address

WACS or GMSID #: GMS3116P02787  
Expiration Date: November 25, 2007

Latitude: 30°14'00"N

Longitude: 82°02'30"W

or UTM: \_\_\_\_\_

### Solid Waste Disposal Units Included in Estimate:

Phase/Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
<u>I-V</u>	<u>144</u>	<u>18-May-92</u>	<u>20 +/- Years</u>

Total Landfill Acreage included in this estimate: 119 Closure 144 Long Term Care

The entire landfill less closed areas (25 Ac +/-), after Fill Phase 10 (the estimated worse case).  
(71.3 acres of top area and 47.7 acres of side slope)

Type of Landfill X Class I    Class III    C&D Debris

### II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

   Letter of Credit\*    Insurance Certificate  
   Performance Bond\* X Escrow Account  
   Guaranty Bond\*    Trust Fund Agreement

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

Northwest District  
180 Governmental Center  
Panama City, FL 32301-6794  
904-507-3300

Northwest District  
7820 Baymeadows Way, Ste. 2000  
Jacksonville, FL 32216-7080  
904-449-4300

Central District  
3319 McGuire Blvd., Ste. 202  
Orlando, FL 32822-5787  
407-394-7068

Southeast District  
3804 Coconut Palms Dr.  
Tampa, FL 33618  
813-744-6100

South District  
2225 Victoria Ave., Ste. 204  
Port Myrtle, FL 33601-3881  
941-332-8075

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-861-9800

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DEP002724

40 CFR Part 264.H as adopted by reference in Rule 62-701.603, Florida Administrative Code sets forth the method of annual Cost estimates may be adjusted using an inflation factor or be recalculating the maximum cost of closure in current dollars. Select one of the methods of cost estimate adjustment below.

☒

(a) Inflation Factor Adjustment

Inflation adjustments 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 Financial Coordinator at (850) 488-6300.

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

Dec. 13, 2003 (w/renewal application)

Latest Department Approved		Current Year		Inflation Adjusted
\$14,120,588.83	X	1.0150	=	\$14,332,397.46

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		Inflation Adjusted Annual Long-Term Care Cost Estimate
\$728,239.81	X	1.0150	=	\$739,163.41
Number of Years of Long-Term Care Remaining:			X	30
Inflation Adjusted Long-Term Care Cost Estimate:			=	\$22,174,902.21

☐

(b) Recalculate Estimates (see section V)

IV. CERTIFICATION BY ENGINEER

This is to certify that the Financial Assurance 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 long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Signature of Engineer

Juanitta Bader Clem, P.E.

Name & Title (please type)

43245

Florida Registration Number (affix seal)

14775 St. Augustine Road, Jax. FL 32258

Mailing Address

(904) 642-8990

Telephone Number

Signature of Owner/Operator

Chris Pearson, Operations Manager

Name & Title (please type)

(904) 630-4593

Telephone Number

chrp@coj.net

Owner/Operator E-Mail Address

clemj@aiming.com

Engineer's E-Mail Address

DEP FORM 62-701.900(28)

Effective

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Interoffice Memorandum

NORTHEAST DISTRICT - JACKSONVILLE

TO: Fred Wick - MS 4565  
THROUGH: Mary Nogas, P.E. MN  
FROM: Julia Boesch JS  
Solid Waste Engineer  
DATE: August 20, 2003  
SUBJECT: Trail Ridge Landfill  
Review of the Financial Assurance Annual Cost Adjustments  
Permit No. 0013493-002-SC

The Department has completed review of the cost estimates (copy enclosed for your files) provided on August 19, 2003 to comply with the requirements of Florida Administrative Code Chapter 62-701. The following cost estimates have been approved for the subject facility (2003 cost estimates):

Active Class I Landfill

Closure Construction Cost Estimates - \$ 14, 120, 588.63

Annual Long-Term Care Cost Estimates - \$ 728, 239.81

Total Long-Term Care Cost Estimates - \$ 21, 847,194.15 (30 years)

The following is for your information:

Applicant name: Trail Ridge Landfill, Inc.  
Contact person: Greg Mathes  
Title: District Manager  
Phone number: (904) 289-9100

MCN:jbm

Enclosures

cc: Chris Pearson, City of Jacksonville  
Juanitta Bader Clem, England Thims & Miller



# England-Thims & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

August 19, 2003

Ms. Mary C. Nogas, P.E.  
Waste Management Section  
Department of Environmental Protection  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256

Reference: Trail Ridge Landfill  
2002 Financial Assurance Cost Estimates  
FDEP Permit No. 0013493-002-SC  
ET&M No. E02-025

Dear Ms. Nogas:

On behalf of Trail Ridge Landfill, Inc. and the City of Jacksonville, we hereby submit the Financial Assurance Cost Estimate Form for 2003 for the referenced facility, in accordance with Rule 62-701.630(4)(a), F.A.C. Please note that these cost estimates are based upon the 2002 Financial Assurance Cost Estimates provided to the Department in the Second Permit Renewal on September 25, 2002 and updated on December 13, 2002.

If you have any questions regarding this information, please feel free to give me a call.

Sincerely,

ENGLAND, THIMS & MILLER, INC.

Juanita Bader Clem, P.E.  
Vice President

Attachment

cc: Chris Pearson  
Greg Mathes  
Achaya Kelapanda  
Mark Behel

Principals  
James E. England, P.E., CEO  
Douglas C. Miller, P.E., President  
N. Hugh Mathews, P.E., Exec. V.P.  
Joseph A. Turner, Exec. V.P.  
Juanita Bader Clem, P.E., V.P.  
Scott A. Wild, P.E., PSM, V.P.  
Samuel R. Crissinger, CPA, V.P.  
Robert A. Mikel, Jr., P.E., V.P.  
Bryan R. Stewart, V.P.

RECEIVED

AUG 19 2003

STATE OF FLORIDA  
DEPT. OF ENV. PROTECTION  
NORTHEAST DISTRICT-JAX



# Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, FL 32399-2400

DEP Form # SL-701.500(2/8)  
Form Title: Financial Assurance Cost Estimate Form  
Effective Date:  
DEP Application No.  
(Filed by DEP)

## FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: August 18, 2003

Date of DEP Approval: \_\_\_\_\_

### I. GENERAL INFORMATION:

Facility Name: Trail Ridge Class I Landfill  
Permit Application No.: 0013493-002-SC (Renewal of SC16-184444)  
Facility Address: 5110 U.S. Highway 301, Baldwin, Florida 32234  
Permittee: Trail Ridge Landfill, Inc.  
Mailing Address: Same as facility address

WACS or GMSID #: GMS3116P02787  
Expiration Date: November 25, 2002

Latitude: 30°14'00"N

Longitude: 82°02'30"W

or UTM: \_\_\_\_\_

### Solid Waste Disposal Units Included in Estimate:

Phase/Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
<u>I-V</u>	<u>144</u>	<u>18-May-92</u>	<u>20 +/- Years</u>

Total Landfill Acreage included in this estimate: 119 Closure 144 Long Term Care

The entire landfill less closed areas (25 Ac +/-), after Fill Phase 10 (the estimated worse case).  
(71.3 acres of top area and 47.7 acres of side slope)

Type of Landfill X Class I    Class III    C&D Debris

### II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

   Letter of Credit\*    Insurance Certificate  
   Performance Bond\* X Escrow Account  
   Guaranty Bond\*    Trust Fund Agreement

\* indicates mechanisms that require use of a Standby Trust Fund Agreement

Northwest District  
180 Governmental Center  
Panama, FL 32601-8734  
850-505-8390

Northwest District  
7625 Seagrass Lane, Ste. 8200  
Jacksonville, FL 32256-7590  
904-448-4300

Central District  
3329 Magnolia Blvd., Ste. 202  
Orlando, FL 32803-9787  
407-894-7826

Southeast District  
3804 Coconut Palm Dr.  
Tampa, FL 33618  
813-744-8100

South District  
2205 Victoria Ave., Ste. 304  
Fort Myers, FL 33901-3281  
941-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-461-6008

40 CFR Part 284 H as adopted by reference in 62-701.803, Florida Administrative Code sets forth the method of annual cost estimates may be adjusted using an inflation factor or be recalculating the maximum cost of closure in current dollars. Select one of the methods of cost estimate adjustment below.

☒

**(a) Inflation Factor Adjustment**

Inflation adjustments 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 Financial Coordinator at (850) 488-0300.

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

Dec. 13, 2003 (w/renewal application)

Latest Department Approved

Current Year

Inflation Adjusted

\$13,980,780.82

X

1.0100

=

\$14,120,588.83

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

Inflation Adjusted Annual  
Long-Term Care Cost  
Estimate

\$721,029.51

X

1.0100

=

\$728,239.81

Number of Years of Long-Term Care Remaining:

X

30

Inflation Adjusted Long-Term Care Cost Estimate:

=

\$21,847,194.15

☐

**(b) Recalculate Estimates (see section V)**

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance 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 long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.830 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.830(4), F.A.C.

Juanitta Bader Clem  
Signature of Engineer

8/19/03

Juanitta Bader Clem, P.E.  
Name & Title (please type)

43245  
Florida Registration Number (affix seal)

14775 St. Augustine Road, Jax. FL 32258  
Mailing Address

(904) 842-8980  
Telephone Number

Chris Pearson  
Signature of Owner/Operator

Chris Pearson, Operations Manager  
Name & Title (please type)

(904) 630-4593  
Telephone Number

chrisp@coj.net  
Owner/Operator E-Mail Address

clem@atmnc.com  
Engineer's E-Mail Address

DEP FORM 62-701.900(28)  
Effective

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Interoffice Memorandum

NORTHEAST DISTRICT - JACKSONVILLE

TO: Fred Wick

THROUGH: Mary Nogas, P.E. *MN*

FROM: Julia Boesch *JB*  
Solid Waste Engineer

DATE: August 18, 2003

SUBJECT: Trail Ridge Landfill  
Review of the Financial Assurance Annual Cost Adjustments  
Permit No. 0013493-002-5C

The Department has completed review of the cost estimates (copy enclosed for your files) submitted on September 26, 2002 with revised pages, 3-6, submitted on December 16, 2002, with the permit renewal application and to comply with the requirements of Florida Administrative Code Chapter 62-701. The following cost estimates have been approved for the subject facility:

Active Class I Landfill

Closure Construction Cost Estimates - \$ 13,980,780.82

Annual Long-Term Care Cost Estimates - \$ 721,029.51

Total Long-Term Care Cost Estimates - \$ 21,630,885.19 (30 years)

The following is for your information:

Applicant name: Trail Ridge Landfill, Inc.  
Contact person: Greg Mathes  
Title: District Manager  
Phone number: (904) 289-9100

MCN:mbl

Enclosures

cc: Chris Pearson, City of Jacksonville  
Juanitta Bader Clem, England Thims & Miller



# Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, FL 32399-2400

DEP Form # 102-701-0002(20)  
Form Title: Financial Assurance Cost Estimate Form  
Effective Date:  
DEP Application No.  
(Filled by DEP)

## FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: August 19, 2002

Date of DEP Approval: \_\_\_\_\_

### I. GENERAL INFORMATION:

Facility Name: Trail Ridge Class I Landfill  
Permit Application No.: 0013493-002-SC (Renewal of SC18-184444)  
Facility Address: 5110 U.S. Highway 301, Baldwin, Florida 32234  
Permittee: Trail Ridge Landfill, Inc.  
Mailing Address: Same as facility address

WACS or GMSID #: GMS3116P02787  
Expiration Date: November 25, 2002

Latitude: 30°14'00"N

Longitude: 82°02'30"W

or UTM: \_\_\_\_\_

### Solid Waste Disposal Units Included in Estimate:

Phase/Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
I-V	144	18-May-92	20 +/- Years

Total Landfill Acreage included in this estimate: \_\_\_\_\_

119 Closure 144 Long Term Care

The entire landfill less closed areas (25 Ac +/-), after Fill Phase 10 (the estimated worse case), (71.3 acres of top area and 47.7 acres of side slope)

Type of Landfill X Class I \_\_\_\_\_ Class III \_\_\_\_\_ C&D Debris

### II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

\_\_\_\_ Letter of Credit\*  
\_\_\_\_ Insurance Certificate  
\_\_\_\_ Performance Bond\*  
X Escrow Account  
\_\_\_\_ Guaranty Bond\*  
\_\_\_\_ Trust Fund Agreement

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

Northwest District  
190 Governmental Center  
Pensacola, FL 32501-6784  
850-658-5380

Northwest District  
7825 Baymeadows Way, Ste. 2200  
Jacksonville, FL 32216-7690  
904-448-4300

Central District  
3319 Maguire Blvd., Ste. 232  
Orlando, FL 32803-3787  
407-894-7366

Southwest District  
3304 Coconut Palm Dr.  
Tampa, FL 33618  
813-744-6180

South District  
2226 Victoria Ave., Ste. 304  
Fort Myers, FL 33901-3881  
941-322-8878

Southwest District  
490 South Congress Ave.  
West Palm Beach, FL 33401  
561-491-6900

40 CFR Part 284-H as adopted by reference in 62-701.603, Florida Administrative Code sets forth the method of annual Cost estimates may be adjusted using an inflation factor or be recalculating the maximum cost of closure in current dollars. Select one of the methods of cost estimate adjustment below.

☐ (a) Inflation Factor Adjustment

Inflation adjustments 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 Financial Coordinator at (850) 488-0300.

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

Latest Department Approved

Current Year

Inflation Adjusted

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

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:

=

☒

(b) Recalculate Estimates (see section V)

IV. CERTIFICATION BY ENGINEER

This is to certify that the Financial Assurance 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 long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.530 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Signature of Engineer

Juanita Bader Clem, P.E.  
Name & Title (please type)

43245

Florida Registration Number (affix seal)

4775 St. Augustine Road, Jax. FL 32258

Mailing Address

(904) 642-8990

Telephone Number

Signature of Owner/Operator

Chris Pearson, Operations Manager  
Name & Title (please type)

(904) 630-4583

Telephone Number

chrisp@col.net

Owner/Operator E-Mail Address

clemj@etm-inc.com

Engineer's E-Mail Address

DEP FORM 62-701.900(28)  
Effective

Page 2 of 11

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# V. RECALCULATE ESTIMATED CLOSING COSTS

For the time period in the landfill operation when the extent and manner of its operation makes closing most expensive.

**\*\* Third Party Estimate/Quote must be provided for each item**  
Costs must be for a third party providing all materials and labor

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
1. Proposed Monitoring Wells (Do not include wells already in existence)				
The monitoring wells have been installed as part of operation.				
EA				\$0.00
2. Slops and Fill (bedding layer between waste and barrier layer):				
Excavation	CY	NA	0	\$0.00
Placement and Spreading	SY	575,980	\$0.99 (a)	\$570,200.40
Compaction	CY	0	\$0.00	\$0.00
Included with Placement and Spreading				
Off-Site Material	CY	0	\$0.00	\$0.00
Included as part of operation				
Delivery	CY	0	\$0.00	\$0.00
Included as part of Placement and Spreading				
Subtotal Monitoring Wells:				\$570,200.40
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY	78,958	\$15.00 (b)	\$1,184,340.00
Synthetics - 40 mil	SY	345,092	\$3.105 (c)	\$1,071,510.68
Synthetics - GCL	SY	NA	0	\$0.00
Synthetics - Geonet	SY	NA	0	\$0.00
Synthetics - Other	SY	NA	0	\$0.00
Subtotal Barrier Layer Cover:				\$2,225,850.68
4. Top Soil:				
Off-Site Material (sand)	CY	115,031	\$6.27 (d)	\$721,244.37
Off-Site Material (top soil)	CY	268,943	\$12.00 (b)	\$3,227,316.00
Delivery	CY	0	\$0.00	\$0.00
Included with material				
Spread	CY	0	\$0.00	\$0.00
Included with material				
Subtotal Top Soil Cover:				\$3,948,560.37

- a. Unit price based upon Bid prices from R.B. Baker Construction, Inc. received February 7, 1997 for Closure of Side-Slope Units 1-4 and 12-20 and multiplied by an inflation factor of 1.02 for 1998, 1.01 for 1999, 1.015 for 2000 and 1.02 for 2001.  
b. Unit price based upon Bid prices from R.B. Baker Construction, Inc. received October 19, 2001 for Incremental Closure Construction.  
c. Based upon Textured/Two Sides, 40 mil HDPE liner material from GSE as provided by Bob Thader on August 19, 2002.  
d. Unit price based upon Bid prices from R.B. Baker Construction, Inc. received April 7, 2000 for Third Construction increment and increased by an inflation factor of 1.02 for 2001.

DEP FORM 62-701.900(28)  
Effective

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DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
<b>5. Vegetative Layer:</b>				
Sodding	SY	575,980	\$1.87 (a)	\$1,077,045.20
Hydroseeding Included with sodding	AC	0	\$0.00	\$0.00
Fertilizer Included with sodding	AC	0	\$0.00	\$0.00
Mulch	AC N/A	0	\$0.00	\$0.00
Other	SY N/A	0	\$0.00	\$0.00
Subtotal Vegetative Layer:				\$1,077,045.20

**6. Stormwater Control System:**

Earthwork	CY	8,415	\$5.71 (a)	\$48,049.65
Grading Included with Earthwork	SY	0	\$0.00	\$0.00
Piping	LF	4,240	\$90.48 (b)	\$383,635.20
Ditches	LF N/A	0	\$0.00	\$0.00
Barris	LF N/A	0	\$0.00	\$0.00
Control Structures	EA N/A	0	\$0.00	\$0.00
Other Terrace Drains	EA	58	\$5,500.00 (b)	\$308,000.00
Underdrain	LF	41,861	\$16.00 (b)	\$669,776.00
Subtotal Stormwater Controls:				\$1,409,460.85

**7. Gas Controls: Passive**

Wells	EA N/A	0	\$0.00	\$0.00
Pipe and Fittings	LF N/A	0	\$0.00	\$0.00
Monitoring Probes	EA	0	\$0.00	\$0.00
The gas monitoring probes have been installed.				
NSPS/Title V requirements	LS	0	\$0.00	\$0.00
Subtotal Passive Gas Controls:				\$0.00

- a. Unit price based upon Bid prices from R.B. Baker Construction, Inc. received April 7, 2000 for Third Construction Increment and increased by an inflation factor of 1.02 for 2001.
- b. Unit price based upon Bid prices from R.B. Baker Construction, Inc. received October 19, 2001 for Incremental Closure Construction.

DEP FORM 62-701.900(25)  
Effective

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DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
<b>8. Gas Control: Active Extraction</b>				
Traps	EA	5	\$3,136.00 (a)	\$15,680.00
Sump Installed during operation	EA	0	\$0.00	\$0.00
Flare Assembly	EA	1	\$138,826.87 (a)	\$138,826.87
Flame Arrestor Installed during operation	EA	0	\$0.00	\$0.00
Mist Eliminator Installed during operation	EA	0	\$0.00	\$0.00
Flow Meter Installed during operation	EA	0	\$0.00	\$0.00
Blowers Included with the Flare Assembly	EA	0	\$0.00	\$0.00
Collection System				
8" Pipes and Fittings	LF	7,000	\$25.00 (b)	\$175,000.00
8" Pipes and Fittings	LF	1,300	\$30.00 (b)	\$39,000.00
10" Pipes and Fittings	LF	4,700	\$30.00 (b)	\$141,000.00
Other (describe)				
Control Valves	EA	5	\$3,000.00 (b)	\$15,000.00
Wells (44 wells @ 140 FT.)	FT	6,160	\$100.00 (b)	\$616,000.00
Well Head Assembly	EA	44	\$1,000.00 (b)	\$44,000.00
Subtotal Active Gas Extraction:				\$1,184,306.87

**9. Security System:** The security system was installed as part of the operation.

Fencing	LF	0	\$0.00	\$0.00
Gate(s)	EA	0	\$0.00	\$0.00
Sign(s)	EA	0	\$0.00	\$0.00
Ditches	LF	0	\$0.00	\$0.00
Subtotal Security System:				\$0.00

**10. Engineering:**

Closure Plan Report Including Closure Permit	LS	1	\$70,000.00	\$70,000.00
Certified Engineer Included in Certification of Closure	LS	0	\$0.00	\$0.00
NSPS/Title V Air Permit A Title V Air Permit has been issued	LS	0	\$0.00	\$0.00
Final Survey	LS	1	\$60,000.00	\$60,000.00
Certification of Closure	LS	1	\$20,000.00	\$20,000.00
Other (Detail)				
Construction Drawings	LS	0	\$0	\$0.00
	LS	1	\$250,000	\$250,000.00
Subtotal Engineering:				\$400,000.00

a. Unit price based upon Bid price from R.B. Baker Construction, Inc. received on June 29, 1988 for construction of Phase 1 Gas Management system and multiplied by an inflation factor of 1.01 for 1998, 1.016 for 2000 and 1.02 for 2001.

b. Unit price based upon Bid prices from R.B. Baker Construction, Inc. received October 19, 2001 for Incremental Closure Construction.

DEP FORM 82-701.800(28)  
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# 11. Professional Services

	Contract Management			Quality Assurance			Total
	Rate/Hr	Hours	LS	Rate/Hr	Hours	LS	
P.E. Supervisor	\$125	104	\$13,000	\$105.00	100	\$10,500	\$23,500
On-Site Engineer	\$0	0	\$0	\$65.00	1200	\$78,000	\$78,000
Office Engineer	\$100	208	\$20,800	\$90.00	400	\$36,000	\$56,800
On-Site Technician	\$75	1300	\$97,500	\$40.00	4800	\$192,000	\$289,500
Other (Explain)							
Clerical			\$5,824				\$5,824
Expenses			\$10,000				\$10,000

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
Quality Assurance Testing	LS	1	\$65,000.00	\$65,000.00

Subtotal Professional Services \$528,624.00

Subtotal of 1-11 Above: \$11,344,048.15

12. Contingency 15 % of Total \$1,701,607.22

Closing Cost Subtotal: \$13,045,655.37

# 13. Site Specific Costs (explain)

Mobilization/Demobilization (5.0% of Construction Cost)		<u>\$520,771.21</u>
Waste Tire Facility (100 tons at \$102 per ton)	(a)	<u>\$10,200.00</u>
Materials Recovery Facility	N/A	<u>\$0.00</u>
Special Wastes		<u>\$50,000.00</u>
Leachate Management System Modification	N/A	<u>\$0.00</u>
Other - Bonds (1.0% of Construction Costs)		<u>\$104,154.24</u>
Erosion Control (during construction)		<u>\$250,000.00</u>
Subtotal Site Specific Costs:		<u>\$935,125.45</u>
TOTAL CLOSING COSTS:		<u>\$13,980,780.82</u>

a. Based upon Trail Ridge Landfill Inc.'s current cost to handle waste tire disposal.

# VI. ANNUAL COST FOR LONG-TERM CARE

(Check Term Length)

\_\_\_\_\_ 5 Years \_\_\_\_\_ 20 Years X 30 Years \_\_\_\_\_ Other

See 62-701.800(1)a.1., 62-701.820(1), 62-701.830(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.

\*\* Third Party Estimate/Quote must be provided for each item  
 \*\* Costs must be for a third party providing all material and labor

All items must be addressed. Attach a detailed explanation for all items marked not applicable (N/A)

Description	Sampling Frequency (Events/yr.)	Number of Wells	\$/Well/Event	\$/Year
<b>1. Groundwater Monitoring (62-701.510(6), and (8)(a))</b>				
Monthly	12	0	\$0.00	\$0.00
Quarterly	4	0	\$0.00	\$0.00
Semi-Annual	2	37	\$346.80 (a) (c)	\$25,883.20
Annual		0	\$0.00	\$0.00
Other				
Biennial Report	0.5	1	\$5,200.00	\$2,600.00
Semi-Annual Report	2	1	\$1,750.00	\$3,500.00 (b)
Background	0.20	37	\$1,053.66 (a) (c)	\$7,797.06 (b)
Subtotal Groundwater Monitoring:				\$39,580.28
<b>2. Surface Water Monitoring (62-701.510(4), and (8)(b))</b>				
Monthly	12	0	\$0.00	\$0.00
Quarterly	4	0	\$0.00	\$0.00
Semi-Annual*	2	2	\$313.14 (a) (c)	\$1,252.56
* Semi-Annual report included with groundwater monitoring report.				
Annual	1	0	\$0.00	\$0.00
Subtotal Surface Water Monitoring:				\$1,252.56
<b>3. Gas Monitoring</b>				
Monthly	12	0	\$0.00	\$0.00
Quarterly	4	10	\$38.76 (c)	\$1,550.40
Semi-Annual	2	0	\$0.00	\$0.00
Annual	1	0	\$0.00	\$0.00
Semi-Annual Report	2		\$650.00	\$1,300.00
Subtotal Gas Monitoring:				\$2,850.40

a. Includes sampling and analysis.

b. Includes all reporting (groundwater, surface water and leachate).

c. Unit cost for 2000 has been multiplied by an inflation factor of 1.02 for 2001.

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Description	Sampling Frequency (Events/yr.)	Number of Locations	\$/Location/Event	\$/Year
4. Leachate Monitoring (62-701.510(5), (8)(b) and 62-701.510(8))				
Monthly	12	0	\$0.00	\$0.00
Quarterly	4	0	\$0.00	\$0.00
Semi-Annual	2	2	\$344.76 (a)	\$1,379.04
Annual	1	0	\$0.00	\$0.00
Composite	4	1	\$830.28 (a)	\$3,321.12
Subtotal Leachate Monitoring:				\$4,700.16

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
5. Leachate Collection/Treatment Systems Maintenance				
Maintenance				
Collection Pipes	LF	0	\$0.00	\$0.00
Sumps, Traps	EA	0	\$0.00	\$0.00
Lift Stations	EA	1	\$30,000.00	\$30,000.00
Cleaning	LS	0	\$0.00	\$0.00
Tanks	EA	0	\$0.00	\$0.00
Impoundments				
Liner Repair	SY	0	\$0.00	\$0.00
Sludge Removal	CY	0	\$0.00	\$0.00
Aeration System				
Floating Aerators	EA	0	\$0.00	\$0.00
Spray Aerators	EA	0	\$0.00	\$0.00
Disposal				
Off-Site (Includes Transportation and Disposal)	1000 gallons	3,838.53 (c)	\$33.05 (b)	\$126,848.06
Subtotal Leachate Collection Maintenance				\$156,848.06

(a) Includes sampling and laboratory analysis.

(b) Based upon current transportation cost of \$175 per 6000 gallon load and a disposal cost of \$19.40 per 6000 gallons.

(c) Based upon leachate generation rates at Trail Ridge Landfill from July 2000 thru June 2001.

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### 6. Leachate Collection/Treatment Systems Operations

Operation		Hours	\$/Hour	Total
P.E. Supervisor	HR	104	\$26.88	\$2,772.64
On-Site Engineer	HR	0	\$0.00	\$0.00
Office Engineer	HR	0	\$0.00	\$0.00
On-Site Technician	HR	416	\$19.20	\$7,987.20
Materials	LS	0	\$0.00	\$0.00
Subtotal Leachate Collection/Treatment System Maintenance & Operation:				\$10,759.84

### 7. Maintenance of Groundwater Monitoring Wells Assume replacement of one well per year.

Monitoring Wells	LF	1	\$5,652.80	\$5,652.80
Replacement	EA	0	\$0.00	\$0.00
Abandonment	EA	0	\$0.00	\$0.00
Subtotal Groundwater Monitoring Well Maintenance:				\$5,652.80

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
-------------	------	----------	-----------	-------------

### 8. Gas System Maintenance Assume \$30,000 per year for all maintenance.

Piping, Vents	LF	0	\$0.00	\$0.00
Blowers	EA	0	\$0.00	\$0.00
Flaring Units	EA	0	\$0.00	\$0.00
Meters, Valves	EA	0	\$0.00	\$0.00
Compressors	EA	0	\$0.00	\$0.00
Flame Arrestors	EA	0	\$0.00	\$0.00
Operation	LS	0	\$0.00	\$0.00
Subtotal Gas System:				\$30,000.00

### 9. Landscape

Mowing	AC	155	\$234.84	\$36,389.20
Fertilizing	AC	155	\$293.31	\$45,463.05
Subtotal Landscape Maintenance:				\$81,852.25

a. Annual cost for 1997 was multiplied by an inflation factor of 1.02 for 1998, 1.01 for 1999, 1.015 for 2000 and 1.02 for 2001.  
b. Labor rates include direct and indirect labor costs, including benefits, etc. The 1997 rates were multiplied by an inflation factor of 1.02 for 1998, 1.01 for 1999, 1.015 for 2000 and 1.02 for 2001.

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DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
<b>10. Erosion Control &amp; Cover Maintenance</b>				
Sodding	SY	15,004	\$1.87 (a)	\$28,057.48
Regrading Included with Seeding, Soil	SY	15,004	\$0.99 (a)	\$14,853.96
Liner Repair Included with Seeding, Soil	SY	7,502	\$3.105 (b)	\$23,293.71
Clay	CY	2,501	\$15.00 (c)	\$37,515.00
Subtotal Erosion Control and Cover Maintenance:				\$103,720.15
* 2% of the 155 acre landfill				
** 1% of the 155 acre landfill				
<b>11. Storm Water Management System Maintenance</b>				
Conveyance Maintenance	LS	1	\$4,908.20 (a)	\$4,908.20
Ditch Cleaning	LF	10,400	\$1.06 (a)	\$11,024.00
Subtotal Storm Water System Maintenance:				\$15,930.20
<b>12. Security System Maintenance</b>				
Assume \$10,000 per year for all maintenance.				
Fences	LF			
Gate(s)	EA			
Sign(s)	EA			
Subtotal Security System:				\$10,000.00
<b>13. Utilities</b>				
Include Leachate Pumps, Blowers, Lighting, etc.	LS	1	\$42,728.00 (e)	\$42,728.00
<b>14. Administrative</b>				
P.E. Supervisor	HR	2,080	\$26.66 (d)	\$55,452.80
On-Site Engineer	HR	0	\$0.00	\$0.00
Office Engineer	HR	0	\$0.00	\$0.00
On-Site Technician	HR	8,320	\$19.20 (d)	\$158,744.00
Other (Explain)		0	\$0.00	\$0.00
Subtotal Administrative:				\$215,198.80
<b>15. Contingency</b>				
% of Total	N/A	0	\$0.00	\$0.00
Subtotal Contingency:				\$0.00

a. See Unit Costs in Closure Estimates above.

b. Based upon Textured/Two Sides, 40 mil HDPE liner material from GSE as provided by Bob Trader on August 19, 2002.

c. Unit price based upon Bid prices from R.B. Baker Construction, Inc. received October 19, 2001 for Incremental Closure Construction.

d. Labor rates include direct and indirect labor costs, including benefits, etc. The 1997 rates were multiplied by an inflation factor of 1.02 for 1998, 1.01 for 1999, 1.015 for 2000 and 1.02 for 2001.

e. Based on average monthly utility cost of \$3,580.

DEP FORM 52-701.900(28)  
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DEP002740

16. Site Specific Costs (explain)

Unit Costs

_____	LS	_____
_____	LS	_____
_____	LS	_____

Subtotal Administrative: \_\_\_\_\_ \$0.00

ANNUAL LONG-TERM CARE COST (\$/Year) \_\_\_\_\_ \$721,029.51

NUMBER OF YEARS OF LONG-TERM CARE \_\_\_\_\_ 30

TOTAL LONG-TERM CARE COST (\$) \_\_\_\_\_ \$21,630,885.19

**DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**Interoffice Memorandum**

**NORTHEAST DISTRICT - JACKSONVILLE**

**TO:** Fred Wick *MS 4565*  
**THROUGH:** Mary Nogas, P.E. *MN*  
**FROM:** Sam L. Park *SP*  
Solid Waste Engineer  
**DATE:** March 1, 2001  
**SUBJECT:** Trail Ridge Landfill  
Review of the Financial Assurance Annual Cost Adjustments  
Permit No. 0013493-002-SC

The Department has completed review of the cost estimates (copy enclosed for your files) received on August 31, 2000, submitted to comply with the requirements of Florida Administrative Code Chapter 62-701. The following cost estimates have been approved for the subject facility:

**Active Class I Landfill**

**Closure Construction Cost Estimates - \$ 14,933,272**

**Annual Long-Term Care Cost Estimates - \$ 770,104**

**Total Long-Term Care Cost Estimates - \$ 23,103,120 (30 years)**

The following is for your information:

**Applicant name:** Trail Ridge Landfill, Inc.  
**Contact person:** Greg Mathes  
**Title:** District Manager  
**Phone number:** (904) 289-9100

**MCN:**mb1

**Enclosures**

**cc:** Chris Pearson, City of Jacksonville  
Juanitta Bader Clem, England Thims & Miller



RECEIVED

TRAIL RIDGE LANDFILL, INC.  
A WASTE MANAGEMENT COMPANY

5110 U.S. Highway 301, South  
Baldwin, FL 32234-3608  
(904) 289-9100  
(904) 289-9013 Fax

August 30, 2000

AUG 31 2000

STATE OF FLORIDA  
DEPT. OF ENV. PROTECTION  
NORTHEAST DISTRICT-JAX

Ms. Mary C. Nogas, P.E.  
Solid Waste Section  
Department of Environmental Protection  
8928 Baymeadows Way, Suite B-200  
Jacksonville, Florida 32256-7590

Reference: Trail Ridge Landfill  
Financial Responsibility  
DEP Permit Number 0013493-002-SC

Dear Ms. Nogas:

In accordance with Specific Condition 11 of our Permit, we are enclosing two (2) signed and sealed copies of the Florida Department of Environmental Protection Financial Responsibility Documentation.

If you have any questions regarding this documentation, please feel free to give me a call.

Sincerely,

TRAIL RIDGE LANDFILL, INC.

  
Greg Mathes  
District Manager

GM:lh  
Enclosures (2)

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**ENVIRONMENTAL RESOURCE MANAGEMENT DEPARTMENT**  
**Solid Waste Division**



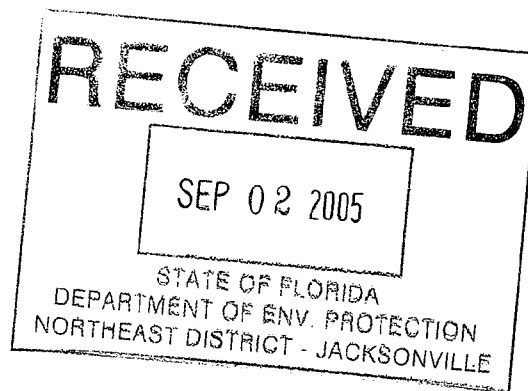
**Disposal Operations**

September 1, 2004

Ms. Mary Nogas, P.E.  
Supervisor – Solid Waste Section  
Florida Department of Environmental Protection  
7825 Baymeadows Way, Suite B-200  
Jacksonville, Florida 32256

RE: Trailridge Landfill

Dear Mary,



Thank you for meeting with Tom Clayton of our Office of General Counsel and me today on such short notice. During our meeting we raised two issues, both of which require additional information or consideration prior to resolution. It is my understanding that if we provided you with some financial data you would provide us with a response. Further, I understand that Trail Ridge Landfill, Inc. had requested a thirty-day extension on the filing of the Financial Assurance Cost Estimate Form for 2005 and that you would grant the extension. Thank you for granting the extension to Trail Ridge Landfill, Inc. You indicated that you would address our two issues so that the Financial Assurance Cost Estimate Form could be filed within the time of the extension.

Issue one, dealt with what financial estimate should be used on the Financial Assurance Cost Estimate Form for closure costs. I have been advised by our permit holder that in the past we have been submitting an estimate based upon a one time closure cost. Copies of the form for 2001, 2002, 2003 and 2004 are enclosed for your review.

As you know the permit is somewhat unique in that it requires incremental closures. The costs for the four incremental closures to date are as follows:

<u>Mo./Yr.:</u>	<u>Acres:</u>	<u>Actual Costs:</u>
07/02	4	\$1,140,809
12/97	12	\$1,569,240
04/95	2.3	\$606,041
02/94	5	\$738,700

Copies of the documentation supporting these numbers is also enclosed for your review. The average cost per acre based upon the incremental closure costs is in excess of the cost per acre based upon one time closure costs.

444 East Duval Street, Suite 200 Jacksonville, Florida 32202  
Telephone: (904) 630 - 4185 Fax: (904) 630 - 4191 Web: [www.coj.net](http://www.coj.net)

*Recipient of the 2001 Governor's Sterling Award*

DEP002744

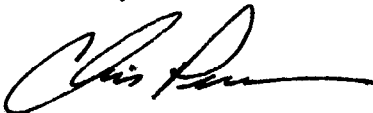
September 1, 2004  
Ms. Mary Nogas, P.E.  
Page 2

Section 62-701.630 F.A.C. provides in part that the estimated total cost of closure shall be "...for the time period in the landfill operation when the extent and manner of its operation make closing most expensive." In light of this language we are uncertain as to what estimate should be reflected on the Financial Assurance Cost Estimate Form. We appreciate you agreeing to provide us with guidance on this issue and look forward to receiving your advice.

The second issue dealt with what party should sign the Financial Assurance Cost Estimate Form. The form itself has the following language under the signature line "Signature of Owner/Operator". As the city is the owner and Trail Ridge Landfill, Inc. is the operator we are uncertain as to whom should be the signator. The only guidance we could find on this matter is the language in the permit wherein on page 8, paragraph 11, it states that, "The Permittee shall annually adjust the closure cost estimate for inflation using Form 62-701.9000(28)." This would lead us to understand that Trail Ridge Landfill, Inc. is the proper signator of this form. Again, we look forward to receiving your direction on this issue.

Again, thank you for meeting time with us on short notice, we look forward to hearing from you.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Pearson", with a stylized, flowing script.

Chris Pearson

Cc: A. Wood  
J. Eggleton Davis  
T. Clayton Esq.

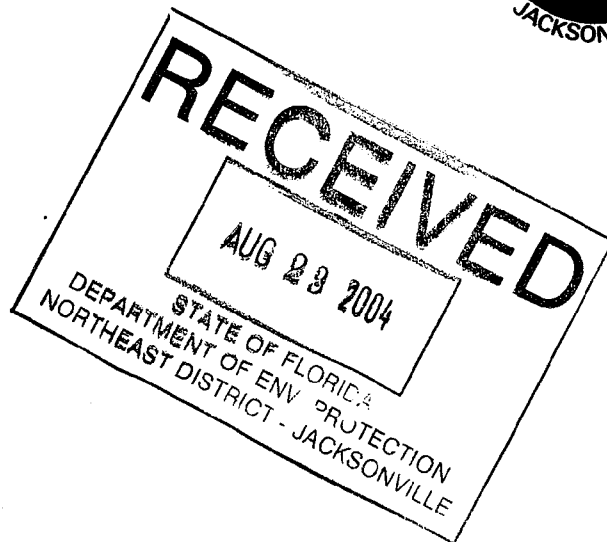
**ENVIRONMENTAL RESOURCE MANAGEMENT DEPARTMENT**  
**Solid Waste Division**



**Disposal Operations**

August 19, 2004

Mary Nogas, P.E.  
Solid Waste Section  
Department of Environmental Protection  
7825 Baymeadows Way, Suite B-200  
Jacksonville, FL 32256




Dear Ms. Nogas,

Enclosed please find two sealed originals of the 2002 Financial Assurance Cost Estimates for Trail Ridge Landfill as estimated by England, Thims & Miller, Inc.

If you have any questions, please contact Chris Pearson at 630-4185 ext. 241.

Sincerely,

  
Sue Barry  
Administrative Assistant

SB

Enclosures

pc: Chris Pearson  
File



444 East Duval Street, Suite 200 Jacksonville, Florida 32202  
Telephone: (904) 630 - 4185 Fax: (904) 630 - 4191 Web: [www.coj.net](http://www.coj.net)

*Recipient of the 2001 Governor's Sterling Award*

DEP002746



# England-Thimms & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

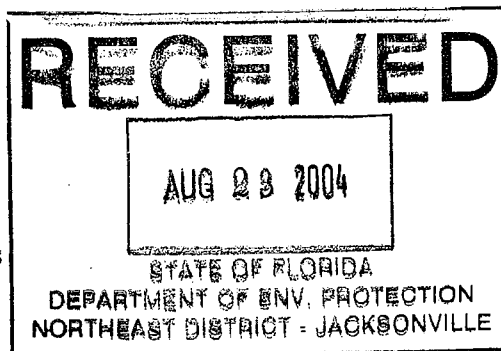
August 12, 2004

## Principals

James E. England, P.E., CEO  
Douglas C. Miller, P.E., President  
N. Hugh Mathews, P.E., Exec., V.P.  
Joseph A. Tarver, Exec., V.P.  
Juanitta Bader Clem, P.E., V.P.  
Scott A. Wild, P.E., PSM, V.P.  
Samuel R. Crissinger, CPA, V.P.  
Robert A. Mizell, Jr., P.E., V.P.  
Bryan R. Stewart, V.P.

Mr. Chris Pearson  
City of Jacksonville  
Department of Solid Waste and Resource Management  
140 W. Monroe Street, Suite 200  
Jacksonville, Florida 32202

Reference: Trail Ridge Landfill  
2002 Financial Assurance Cost Estimates  
ET&M Project No. E02-025



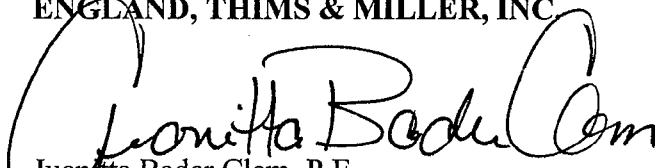
Dear Mr. Pearson:

On behalf of Trail Ridge Landfill, Inc., please find herewith three (3) signed and sealed copies of the 2004 Financial Assurance Cost Estimates for Trail Ridge Landfill. Please sign and submit two (2) copies of the estimates to the Florida Department of Environmental Protection.

If you have any questions, please feel free to give me a call.

Sincerely,

ENGLAND, THIMMS & MILLER, INC.

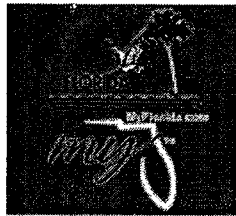
  
Juanitta Bader Clem, P.E.  
Vice President

Attachment

cc: Greg Mathes  
Mark Behel

RECEIVED  
ERMD/Solid Waste Division

AUG 13 2004



# Florida

Department of Environmental Protection

"More Protection. Less Process"

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## Solid Waste Financial Responsibility



To minimize the threat to public health and the environment, Solid Waste Financial Responsibility requirements were adopted in 1984 to secure the proper closing of solid waste management facilities operating in the state of Florida. When demonstrating proof of financial responsibility, owners or operators can choose from a list of approved financial mechanisms that best meet their individual needs. The dollar amount of financial assurance required is directly tied to the current department approved closure cost estimate. Our primary responsibility is full compliance with all solid waste financial assurance requirements. This is accomplished by providing any assistance necessary to facility owners and operators as well as provider companies attempting to meet rule requirements.

### **\*Current Year Inflation Factor: 1.015**

For information requests or document submittal, please contact:

Solid Waste Financial Coordinator  
Department of Environmental Protection  
2600 Blair Stone Road MS 4565  
Tallahassee, Florida 32399-2400  
(850) 245-8732 FAX (850) 245-8811

## Highlights

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Last updated: June 10, 2004

### **Bureau of Solid & Hazardous Waste #850-245-8707 MS #4550**

Division of Waste Management #850-245-8705 MS #4500  
2600 Blair Stone Road, Tallahassee, Florida 32399-2400

### Questions & Comments Form

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# Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, FL 32399-2400

DEP Form # 62-701.900(28)

Form Title: Financial Assurance Cost Estimate Form

Effective Date:

DEP Application No.

(Filled by DEP)

## FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: August 12, 2004

Date of DEP Approval: \_\_\_\_\_

### I. GENERAL INFORMATION:

Facility Name: Trail Ridge Class I Landfill WACS or GMSID #: GMS3116P02787  
Permit Application No.: 0013493-002-SC (Renewal of SC16-184444) Expiration Date: November 25, 2007  
Facility Address: 5110 U.S. Highway 301, Baldwin, Florida 32234  
Permittee: Trail Ridge Landfill, Inc.  
Mailing Address: Same as facility address

Latitude: 30°14'00"N Longitude: 82°02'30"W or UTM: \_\_\_\_\_

### Solid Waste Disposal Units Included in Estimate:

Phase/Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
<u>I - V</u>	<u>144</u>	<u>18-May-92</u>	<u>20 +/- Years</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Total Landfill Acreage included in this estimate: 119 Closure 144 Long Term Care

The entire landfill less closed areas (25 Ac +/-), after Fill Phase 10 (the estimated worse case).  
(71.3 acres of top area and 47.7 acres of side slope)

Type of Landfill X Class I \_\_\_\_\_ Class III \_\_\_\_\_ C&D Debris

### II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

\_\_\_\_\_ Letter of Credit\* \_\_\_\_\_ Insurance Certificate  
\_\_\_\_\_ Performance Bond\* X Escrow Account  
\_\_\_\_\_ Guaranty Bond\* \_\_\_\_\_ Trust Fund Agreement

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

Northwest District  
160 Governmental Center  
Pensacola, FL 32501-5794  
850-595-8360

Northeast District  
7825 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7590  
904-448-4300

Central District  
3319 Maguire Blvd., Ste. 232  
Orlando, FL 32803-3767  
407-894-7555

Southwest District  
3804 Coconut Palm Dr.  
Tampa, FL 33619  
813-744-6100

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
941-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-681-6600

DEP002749

40 CFR Part 264 H as adopted by reference in Rule 62-701.603, Florida Administrative Code sets forth the method of annual Cost estimates may be adjusted using an inflation factor or be recalculating the maximum cost of closure in current dollars. Select one of the methods of cost estimate adjustment below.



**(a) Inflation Factor Adjustment**

Inflation adjustments 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 Financial Coordinator at (850) 488-0300.

This adjustment is based on the Department approved closure cost estimate dated: Dec. 13, 2003 (w/renewal application)

Latest Department Approved		Current Year		Inflation Adjusted
<u>\$14,120,588.63</u>	X	<u>1.0150</u>	=	<u>\$14,332,397.46</u>

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

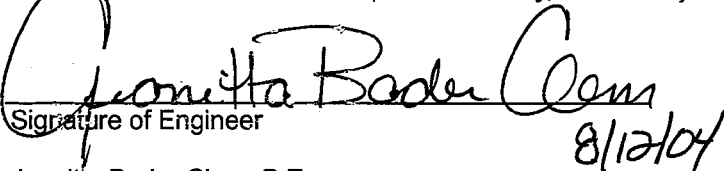
Latest Department Approved Annual Long-Term Care Cost Estimate		Current Year Inflation Factor		Inflation Adjusted Annual Long-Term Care Cost Estimate
<u>\$728,239.81</u>	X	<u>1.0150</u>	=	<u>\$739,163.41</u>
Number of Years of Long-Term Care Remaining:			X	<u>30</u>
Inflation Adjusted Long-Term Care Cost Estimate:			=	<u>\$22,174,902.21</u>



**(b) Recalculate Estimates (see section V)**

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance 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 long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department **annually**, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

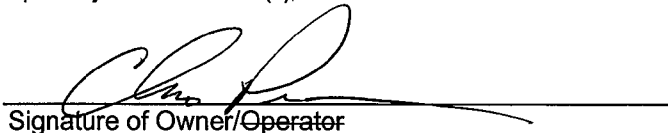
  
Signature of Engineer

Juanitta Bader Clem, P.E.  
Name & Title (please type)

43245  
Florida Registration Number (affix seal)

14775 St. Augustine Road, Jax. FL 32258  
Mailing Address

(904) 642-8990  
Telephone Number

  
Signature of Owner/Operator

Chris Pearson, Operations Manager  
Name & Title (please type)

(904) 630-4593  
Telephone Number

chrisp@coj.net  
Owner/Operator E-Mail Address

clemj@etminc.com  
Engineer's E-Mail Address

**DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**Interoffice Memorandum**

---

**NORTHEAST DISTRICT - JACKSONVILLE**

TO: Fred Wick – MS 4565

THROUGH: Mary Nogas, P.E. *MN*

FROM: Julia Boesch *JB*  
Solid Waste Engineer

DATE: August 20, 2003

SUBJECT: Trail Ridge Landfill  
Review of the Financial Assurance Annual Cost Adjustments  
Permit No. 0013493-002-SC

---

The Department has completed review of the cost estimates (copy enclosed for your files) provided on August 19, 2003 to comply with the requirements of Florida Administrative Code Chapter 62-701. The following cost estimates have been approved for the subject facility (2003 cost estimates):

**Active Class I Landfill**

**Closure Construction Cost Estimates - \$ 14, 120, 588.63**

**Annual Long-Term Care Cost Estimates - \$ 728, 239.81**

**Total Long-Term Care Cost Estimates - \$ 21, 847,194.15 (30 years)**

The following is for your information:

Applicant name: Trail Ridge Landfill, Inc.  
Contact person: Greg Mathes  
Title: District Manager  
Phone number: (904) 289-9100

MCN:jb:ml

Enclosures

cc: Chris Pearson, City of Jacksonville  
Juanitta Bader Clem, England Thims & Miller



# England-Thimms & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

August 19, 2003

Ms. Mary C. Nogas, P.E.  
Waste Management Section  
Department of Environmental Protection  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256

Reference: Trail Ridge Landfill  
2002 Financial Assurance Cost Estimates  
FDEP Permit No. 0013493-002-SC  
ET&M No. E02-025

Dear Ms. Nogas:

On behalf of Trail Ridge Landfill, Inc. and the City of Jacksonville, we hereby submit the Financial Assurance Cost Estimate Form for 2003 for the referenced facility, in accordance with Rule 62-701.630(4)(a), F.A.C. Please note that these cost estimates are based upon the 2002 Financial Assurance Cost Estimates provided to the Department in the Second Permit Renewal on September 25, 2002 and updated on December 13, 2002.

If you have any questions regarding this information, please feel free to give me a call.

Sincerely,

ENGLAND, THIMMS & MILLER, INC.

Juanitta Bader Clem, P.E.  
Vice President

Attachment

cc: Chris Pearson  
Greg Mathes  
Achaya Kelapanda  
Mark Behel

#### Principals

James E. England, P.E., CEO  
Douglas C. Miller, P.E., President  
N. Hugh Mathews, P.E., Exec. V.P.  
Joseph A. Tarver, Exec. V.P.  
Juanitta Bader Clem, P.E., V.P.  
Scott A. Wild, P.E., PSM, V.P.  
Samuel R. Crissinger, CPA, V.P.  
Robert A. Mizell, Jr., P.E., V.P.  
Bryan R. Stewart, V.P.

RECEIVED

AUG 19 2003

STATE OF FLORIDA  
DEPT. OF ENV. PROTECTION  
NORTHEAST DISTRICT-JAX



# Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, FL 32399-2400

DEP Form # 62-701.900(28)

Form Title: Financial Assurance Cost Estimate Form

Effective Date:

DEP Application No.

(Filled by DEP)

## FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: August 18, 2003

Date of DEP Approval: \_\_\_\_\_

### I. GENERAL INFORMATION:

Facility Name: Trail Ridge Class I Landfill WACS or GMSID #: GMS3116P02787  
Permit Application No.: 0013493-002-SC (Renewal of SC16-184444) Expiration Date: November 25, 2002  
Facility Address: 5110 U.S. Highway 301, Baldwin, Florida 32234  
Permittee: Trail Ridge Landfill, Inc.  
Mailing Address: Same as facility address

Latitude: 30°14'00"N Longitude: 82°02'30"W or UTM: \_\_\_\_\_

### Solid Waste Disposal Units Included in Estimate:

Phase/Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
<u>I - V</u>	<u>144</u>	<u>18-May-92</u>	<u>20 +/- Years</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Total Landfill Acreage included in this estimate: 119 Closure 144 Long Term Care

The entire landfill less closed areas (25 Ac +/-), after Fill Phase 10 (the estimated worse case).  
(71.3 acres of top area and 47.7 acres of side slope)

Type of Landfill X Class I \_\_\_\_\_ Class III \_\_\_\_\_ C&D Debris

### II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

\_\_\_\_\_ Letter of Credit\* \_\_\_\_\_ Insurance Certificate  
\_\_\_\_\_ Performance Bond\* X Escrow Account  
\_\_\_\_\_ Guaranty Bond\* \_\_\_\_\_ Trust Fund Agreement

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

Northwest District  
160 Governmental Center  
Pensacola, FL 32501-5794  
850-595-8360

Northeast District  
7825 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7590  
904-448-4300

Central District  
3319 Maguire Blvd., Ste. 232  
Orlando, FL 32803-3767  
407-894-7555

Southwest District  
3804 Coconut Palm Dr.  
Tampa, FL 33619  
813-744-6100

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
941-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-681-6600

DEP002753

40 CFR Part 264 H as adopted by reference in 62-701.603, Florida Administrative Code sets forth method of annual Cost estimates may be adjusted using an inflation factor or be recalculating the maximum cost of closure in current dollars. Select one of the methods of cost estimate adjustment below.



**(a) Inflation Factor Adjustment**

Inflation adjustments 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 Financial Coordinator at (850) 488-0300.

This adjustment is based on the Department approved closure cost estimate dated: Dec. 13, 2003 (w/renewal application)

Latest Department Approved		Current Year		Inflation Adjusted
<u>\$13,980,780.82</u>	X	<u>1.0100</u>	=	<u>\$14,120,588.63</u>

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		Inflation Adjusted Annual Long-Term Care Cost Estimate
<u>\$721,029.51</u>	X	<u>1.0100</u>	=	<u>\$728,239.81</u>
Number of Years of Long-Term Care Remaining:			X	<u>30</u>
Inflation Adjusted Long-Term Care Cost Estimate:			=	<u>\$21,847,194.15</u>



**(b) Recalculate Estimates (see section V)**

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance 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 long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department **annually**, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Juanitta Bader Clem  
Signature of Engineer  
8/19/03

Juanitta Bader Clem, P.E.  
Name & Title (please type)

43245  
Florida Registration Number (affix seal)

14775 St. Augustine Road, Jax. FL 32258  
Mailing Address

(904) 642-8990  
Telephone Number

Chris Pearson  
Signature of Owner/Operator

Chris Pearson, Operations Manager  
Name & Title (please type)

(904) 630-4593  
Telephone Number

chrisp@coj.net  
Owner/Operator E-Mail Address

clemj@etminc.com  
Engineer's E-Mail Address



Jeb Bush  
Governor

# Department of Environmental Protection

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

David B. Struhs  
Secretary

August 18, 2003

Mr. Greg Mathes  
General Manager  
Trail Ridge Landfill Inc.  
5110 U.S. Highway 301  
Jacksonville, Florida 32234

Dear Mr. Mathes:

Trail Ridge Landfill, Inc  
Permit number 0013493-002-SC  
Partial closure units 21-23 and units 1-4 (complete)  
Duval County - Solid Waste

The Department acknowledges receipt of the following documents submitted pursuant to Florida Administrative Code Chapter 62-701 and Specific Condition Number 47 of the subject Permit:

1. Trail Ridge Landfill Incremental Closure Quality Assurance and Quality Control Documentation for Units 1-4 (complete) and 21-23, including the Certification of Construction Completion of a Solid Waste Management Facility, signed and sealed by Juanitta Bader Clem, P.E., prepared by England, Thims and Miller, Inc., and Drawing sheets, CI-3A and CI-6, signed and sealed by Joseph Leslie Reynolds, professional surveyor, received July 26, 2002.

The Department has reviewed the aforementioned Document, which addresses the closure of units 1-4, and of units 21-23, reflected on Drawing sheet number 14, provided October 28, 1996, as "Closure Phase 2." Based on the department's review, the department has determined the closure construction of partial closure units 21-23 and units 1-4 (complete) to be acceptable.

If you have any comments concerning this matter, please contact Julia Boesch at the letterhead address or telephone number (904) 807-3356.

Sincerely,

Mary C. Nogas, P. E.  
Solid Waste Supervisor

MCN:jb:ml

cc: Juanitta Bader Clem, P.E., England, Thims and Miller, Inc.

"More Protection, Less Process"

Printed on recycled paper.

DEP002755

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Interoffice Memorandum

---

NORTHEAST DISTRICT - JACKSONVILLE

TO: Fred Wick

THROUGH: Mary Nogas, P.E. *MN*

FROM: Julia Boesch *JB*  
Solid Waste Engineer

DATE: August 18, 2003

SUBJECT: Trail Ridge Landfill  
Review of the Financial Assurance Annual Cost Adjustments  
Permit No. 0013493-002-SC

---

The Department has completed review of the cost estimates (copy enclosed for your files) submitted on September 26, 2002 with revised pages, 3-6, submitted on December 16, 2002, with the permit renewal application and to comply with the requirements of Florida Administrative Code Chapter 62-701. The following cost estimates have been approved for the subject facility:

**Active Class I Landfill**

**Closure Construction Cost Estimates - \$ 13,980,780.82**

**Annual Long-Term Care Cost Estimates - \$ 721, 029.51**

**Total Long-Term Care Cost Estimates - \$ 21,630,885.19 (30 years)**

The following is for your information:

Applicant name: Trail Ridge Landfill, Inc.  
Contact person: Greg Mathes  
Title: District Manager  
Phone number: (904) 289-9100

MCN:mb1

Enclosures

cc: Chris Pearson, City of Jacksonville  
Juanitta Bader Clem, England Thims & Miller



# Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, FL 32399-2400

DEP Form # 62-701.900(28)

Form Title: Financial Assurance Cost Estimate Form

Effective Date:

DEP Application No.

(Filled by DEP)

## FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: August 19, 2002

Date of DEP Approval: \_\_\_\_\_

### I. GENERAL INFORMATION:

Facility Name: Trail Ridge Class I Landfill  
Permit Application No.: 0013493-002-SC (Renewal of SC16-184444)  
Facility Address: 5110 U.S. Highway 301, Baldwin, Florida 32234  
Permittee: Trail Ridge Landfill, Inc.  
Mailing Address: Same as facility address

WACS or GMSID #: GMS3116P02787  
Expiration Date: November 25, 2002

Latitude: 30°14'00"N

Longitude: 82°02'30"W

or UTM: \_\_\_\_\_

### Solid Waste Disposal Units Included in Estimate:

Phase/Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
I - V	144	18-May-92	20 +/- Years

Total Landfill Acreage included in this estimate: 119 Closure 144 Long Term Care

The entire landfill less closed areas (25 Ac +/-), after Fill Phase 10 (the estimated worse case).  
(71.3 acres of top area and 47.7 acres of side slope)

Type of Landfill X Class I   Class III   C&D Debris

### II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

  Letter of Credit\*   Insurance Certificate  
  Performance Bond\* X Escrow Account  
  Guaranty Bond\*   Trust Fund Agreement

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

Northwest District  
160 Governmental Center  
Pensacola, FL 32501-5794  
850-595-8360

Northeast District  
7825 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7590  
904-448-4300

Central District  
3319 Maguire Blvd., Ste. 232  
Orlando, FL 32803-3767  
407-894-7555

Southwest District  
3804 Coconut Palm Dr.  
Tampa, FL 33619  
813-744-6100

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
941-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-681-6600

DEP002757

40 CFR Part 264 H as adopted by reference in 62-701.603, Florida Administrative Code sets forth method of annual Cost estimates may be adjusted using an inflation factor or be recalculating the maximum cost of closure in current dollars. Select one of the methods of cost estimate adjustment below.

☐

**(a) Inflation Factor Adjustment**

Inflation adjustments 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 Financial Coordinator at (850) 488-0300.

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

Latest Department Approved

Current Year

Inflation Adjusted

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

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:

=

☒

**(b) Recalculate Estimates (see section V)**

**IV. CERTIFICATION BY ENGINEER**

This is to certify that the Financial Assurance 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 long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Signature of Engineer

Juanitta Bader Clem, P.E.  
Name & Title (please type)

43245  
Florida Registration Number (affix seal)

4775 St. Augustine Road, Jax. FL 32258  
Mailing Address

(904) 642-8990  
Telephone Number

Signature of Owner/Operator

Chris Pearson, Operations Manager  
Name & Title (please type)

(904) 630-4593  
Telephone Number

chrisp@coj.net  
Owner/Operator E-Mail Address

clemj@etminc.com  
Engineer's E-Mail Address

**V. RECALCULATE ESTIMATED CLOSING COSTS**

For the time period in the landfill operation when the extent and manner of its operation makes closing most expensive.

**\*\* Third Party Estimate/Quote must be provided for each item**

**Costs must be for a third party providing all materials and labor**

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
1. Proposed Monitoring Wells (Do not include wells already in existence)				
The monitoring wells have been installed as part of operation.				
EA				\$0.00
2. Slope and Fill (bedding layer between waste and barrier layer):				
Excavation	CY	0	\$0.00	\$0.00
Placement and Spreading	SY	575,960	\$0.99 (a)	\$570,200.40
Compaction	CY	0	\$0.00	\$0.00
Included with Placement and Spreading				
Off-Site Material	CY	0	\$0.00	\$0.00
Included as part of operation				
Delivery	CY	0	\$0.00	\$0.00
Included as part of Placement and Spreading				
Subtotal Monitoring Wells:				\$570,200.40
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY	76,956	\$15.00 (b)	\$1,154,340.00
Synthetics - 40 mil	SY	345,092	\$3.105 (c)	\$1,071,510.66
Synthetics - GCL	SY	0	\$0.00	\$0.00
Synthetics - Geonet	SY	0	\$0.00	\$0.00
Synthetics - Other	SY	0	\$0.00	\$0.00
Subtotal Barrier Layer Cover:				\$2,225,850.66
4. Top Soil:				
Off-Site Material (sand)	CY	115,031	\$6.27 (d)	\$721,244.37
Off-Site Material (top soil)	CY	268,943	\$12.00 (b)	\$3,227,316.00
Delivery	CY	0	\$0.00	\$0.00
Included with material				
Spread	CY	0	\$0.00	\$0.00
Included with material				
Subtotal Top Soil Cover:				\$3,948,560.37

a. Unit price based upon Bid prices from R.B. Baker Construction, Inc. received February 7, 1997 for Closure of Side Slope Units 1-4 and 12-20 and multiplied by an inflation factor of 1.02 for 1998, 1.01 for 1999, 1.015 for 2000 and 1.02 for 2001.

b. Unit price based upon Bid prices from R.B. Baker Construction, Inc. received October 19, 2001 for Incremental Closure Construction.

c. Based upon Textured/Two Sides, 40 mil HDPE liner material from GSE as provided by Bob Trexler on August 19, 2002.

d. Unit price based upon Bid prices from R.B. Baker Construction, Inc. received April 7, 2000 for Third Construction Increment and increased by an inflation factor of 1.02 for 2001.

DEP FORM 62-701.900(28)

Effective

Page 3 of 11

DEP002759

DESCRIPTION	UNIT	QUANTITY	UNI. COST	TOTAL
5. Vegetative Layer:				
Sodding	SY	575,960	\$1.87 (a)	\$1,077,045.20
Hydroseeding Included with sodding	AC	0	\$0.00	\$0.00
Fertilizer Included with sodding	AC	0	\$0.00	\$0.00
Mulch	AC N/A	0	\$0.00	\$0.00
Other	SY N/A	0	\$0.00	\$0.00
Subtotal Vegetative Layer:				\$1,077,045.20

6. Stormwater Control System:

Earthwork	CY	8,415	\$5.71 (a)	\$48,049.65
Grading Included with Earthwork	SY	0	\$0.00	\$0.00
Piping	LF	4,240	\$90.48 (b)	\$383,635.20
Ditches	LF N/A	0	\$0.00	\$0.00
Berms	LF N/A	0	\$0.00	\$0.00
Control Structures	EA N/A	0	\$0.00	\$0.00
Other Terrace Drains	EA	56	\$5,500.00 (b)	\$308,000.00
Underdrain	LF	41,861	\$16.00 (b)	\$669,776.00
Subtotal Stormwater Controls:				\$1,409,460.85

7. Gas Controls: Passive

Wells	EA N/A	0	\$0.00	\$0.00
Pipe and Fittings	LF N/A	0	\$0.00	\$0.00
Monitoring Probes The gas monitoring probes have been installed.	EA	0	\$0.00	\$0.00
NSPS/Title V requirements	LS	0	\$0.00	\$0.00
Subtotal Passive Gas Controls:				\$0.00

a. Unit price based upon Bid prices from R.B. Baker Construction, Inc. received April 7, 2000 for Third Construction Increment and increased by an inflation factor of 1.02 for 2001.

b. Unit price based upon Bid prices from R.B. Baker Construction, Inc. received October 19, 2001 for Incremental Closure Construction.

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
8. Gas Control: Active Extraction				
Traps	EA	5	\$3,136.00 (a)	\$15,680.00
Sump	EA	0	\$0.00	\$0.00
Installed during operation				
Flare Assembly	EA	1	\$138,626.67 (a)	\$138,626.67
Flame Arrestor	EA	0	\$0.00	\$0.00
Installed during operation				
Mist Eliminator	EA	0	\$0.00	\$0.00
Installed during operation				
Flow Meter	EA	0	\$0.00	\$0.00
Installed during operation				
Blowers	EA	0	\$0.00	\$0.00
Included with the Flare Assembly				
Collection System				
6" Pipes and Fittings	LF	7,000	\$25.00 (b)	\$175,000.00
8" Pipes and Fittings	LF	1,300	\$30.00 (b)	\$39,000.00
10" Pipes and Fittings	LF	4,700	\$30.00 (b)	\$141,000.00
Other (describe)				
Control Valves	EA	5	\$3,000.00 (b)	\$15,000.00
Wells (44 wells @ 140 FT.)	FT	6,160	\$100.00 (b)	\$616,000.00
Well Head Assembly	EA	44	\$1,000.00 (b)	\$44,000.00
Subtotal Active Gas Extraction:				\$1,184,306.67

9. Security System: The security system was installed as part of the operation.

Fencing	LF	0	\$0.00	\$0.00
Gate(s)	EA	0	\$0.00	\$0.00
Sign(s)	EA	0	\$0.00	\$0.00
Ditches	LF	0	\$0.00	\$0.00
Subtotal Security System:				\$0.00

10. Engineering:

Closure Plan Report	LS	1	\$70,000.00	\$70,000.00
Including Closure Permit				
Certified Engineer	LS	0	\$0.00	\$0.00
Included in Certification of Closure				
NSPS/Title V Air Permit	LS	0	\$0.00	\$0.00
A Title V Air Permit has been issued				
Final Survey	LS	1	\$60,000.00	\$60,000.00
Certification of Closure	LS	1	\$20,000.00	\$20,000.00
Other (Detail)				
	LS	0	\$0	\$0.00
Construction Drawings	LS	1	\$250,000	\$250,000.00
Subtotal Engineering:				\$400,000.00

a. Unit price based upon Bid price from R.B. Baker Construction, Inc. received on June 29, 1998 for construction of Phase I Gas Management system and multiplied by an inflation factor of 1.01 for 1999, 1.015 for 2000 and 1.02 for 2001.

b. Unit price based upon Bid prices from R.B. Baker Construction, Inc. received October 19, 2001 for Incremental Closure Construction.

# 11. Professional Services

	Contract Management			Quality Assurance			Total
	Rate/Hr	Hours	LS	Rate/Hr	Hours	LS	
P.E. Supervisor	\$125	104	\$13,000	\$105.00	100	\$10,500	\$23,500
On-Site Engineer	\$0	0	\$0	\$65.00	1200	\$78,000	\$78,000
Office Engineer	\$100	208	\$20,800	\$90.00	400	\$36,000	\$56,800
On-Site Technician	\$75	1300	\$97,500	\$40.00	4800	\$192,000	\$289,500
Other (Explain)							
Clerical			\$5,824				\$5,824
Expenses			\$10,000				\$10,000

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
Quality Assurance Testing	LS	1	\$65,000.00	\$65,000.00
Subtotal Professional Services				\$528,624.00
Subtotal of 1-11 Above:				\$11,344,048.15

12. Contingency	15	% of Total	\$1,701,607.22
Closing Cost Subtotal:			\$13,045,655.37

# 13. Site Specific Costs (explain)

Mobilization/Demobilization (5.0% of Construction Cost)		\$520,771.21
Waste Tire Facility (100 tons at \$102 per ton)	(a)	\$10,200.00
Materials Recovery Facility	N/A	\$0.00
Special Wastes		\$50,000.00
Leachate Management System Modification	N/A	\$0.00
Other - Bonds (1.0% of Construction Costs)		\$104,154.24
Erosion Control (during construction)		\$250,000.00
Subtotal Site Specific Costs:		\$935,125.45
TOTAL CLOSING COSTS:		\$13,980,780.82

a. Based upon Trail Ridge Landfill Inc.'s current cost to handle waste tire disposal.

# VI. ANNUAL COST FOR LONG-TERM CARE

(Check Term Length)

\_\_\_\_\_ 5 Years \_\_\_\_\_ 20 Years   X   30 Years \_\_\_\_\_ Other

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.

\*\* Third Party Estimate/Quote must be provided for each item  
 \*\* Costs must be for a third party providing all material and labor

All items must be addressed. Attach a detailed explanation for all items marked not applicable (N/A)

Description	Sampling Frequency (Events/yr.)	Number of Wells	\$/Well/Event	\$/Year
<b>1. Groundwater Monitoring (62-701.510(6), and (8)(a))</b>				
Monthly	12	<u>0</u>	<u>\$0.00</u>	<u>\$0.00</u>
Quarterly	4	<u>0</u>	<u>\$0.00</u>	<u>\$0.00</u>
Semi-Annual	2	<u>37</u>	<u>\$346.80</u>	(a) (c) <u>\$25,663.20</u>
Annual		<u>0</u>	<u>\$0.00</u>	<u>\$0.00</u>
Other				
Biennial Report	0.5	<u>1</u>	<u>\$5,200.00</u>	<u>\$2,600.00</u>
Semi-Annual Report	2	<u>1</u>	<u>\$1,750.00</u>	<u>\$3,500.00</u> (b)
Background	0.20	<u>37</u>	<u>\$1,053.66</u>	(a) (c) <u>\$7,797.08</u> (b)
Subtotal Groundwater Monitoring:				<u>\$39,560.28</u>
<b>2. Surface Water Monitoring (62-701.510(4), and (8)(b))</b>				
Monthly	12	<u>0</u>	<u>\$0.00</u>	<u>\$0.00</u>
Quarterly	4	<u>0</u>	<u>\$0.00</u>	<u>\$0.00</u>
Semi-Annual*	2	<u>2</u>	<u>\$313.14</u>	(a) (c) <u>\$1,252.56</u>
* Semi-Annual report included with groundwater monitoring report.				
Annual	1	<u>0</u>	<u>\$0.00</u>	<u>\$0.00</u>
Subtotal Surface Water Monitoring:				<u>\$1,252.56</u>
<b>3. Gas Monitoring</b>				
Monthly	12	<u>0</u>	<u>\$0.00</u>	<u>\$0.00</u>
Quarterly	4	<u>10</u>	<u>\$38.76</u>	(c) <u>\$1,550.40</u>
Semi-Annual	2	<u>0</u>	<u>\$0.00</u>	<u>\$0.00</u>
Annual	1	<u>0</u>	<u>\$0.00</u>	<u>\$0.00</u>
Semi-Annual Report	2		<u>\$650.00</u>	<u>\$1,300.00</u>
Subtotal Gas Monitoring:				<u>\$2,850.40</u>

a. Includes sampling and analysis.

b. Includes all reporting (groundwater, surface water and leachate).

c. Unit cost for 2000 has been multiplied by an inflation factor of 1.02 for 2001.

Description	Sampling Frequency (Events/yr.)	Number of Locations	\$/Location/Event	\$/Year
4. Leachate Monitoring (62-701.510(5), (6)(b) and 62-701.510(8))				
Monthly	12	0	\$0.00	\$0.00
Quarterly	4	0	\$0.00	\$0.00
Semi-Annual	2	2	\$344.76 (a)	\$1,379.04
Annual	1	0	\$0.00	\$0.00
Composite	4	1	\$830.28 (a)	\$3,321.12
Subtotal Leachate Monitoring:				\$4,700.16

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
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5. Leachate Collection/Treatment Systems Maintenance

Maintenance

Collection Pipes	LF	0	\$0.00	\$0.00
Sumps, Traps	EA	0	\$0.00	\$0.00
Lift Stations	EA	1	\$30,000.00	\$30,000.00
Cleaning	LS	0	\$0.00	\$0.00
Tanks	EA	0	\$0.00	\$0.00

Impoundments

Liner Repair	SY	0	\$0.00	\$0.00
Sludge Removal	CY	0	\$0.00	\$0.00

Aeration System

Floating Aerators	EA	0	\$0.00	\$0.00
Spray Aerators	EA	0	\$0.00	\$0.00

Disposal

Off-Site (Includes Transportation and Disposal)	1000 gallons	3,838.53 (c)	\$33.05 (b)	\$126,848.06
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Subtotal Leachate Collection Maintenance \$156,848.06

(a) Includes sampling and laboratory analysis.

(b) Based upon current transportation cost of \$175 per 6000 gallon load and a disposal cost of \$19.40 per 5000 gallons.

(c) Based upon leachate generation rates at Trail Ridge Landfill from July 2000 thru June 2001.

## 6. Leachate Collection/Treatment Systems Operations

Operation		Hours	\$/Hour		Total
P.E. Supervisor	HR	104	\$26.66	(b)	\$2,772.64
On-Site Engineer	HR	0	\$0.00		\$0.00
Office Engineer	HR	0	\$0.00		\$0.00
On-Site Technician	HR	416	\$19.20	(b)	\$7,987.20
Materials	LS	0	\$0.00		\$0.00
Subtotal Leachate Collection/Treatment System Maintenance & Operation:					\$10,759.84

## 7. Maintenance of Groundwater Monitoring Wells Assume replacement of one well per year.

Monitoring Wells	LF	1	\$5,652.80	(a)	\$5,652.80
Replacement	EA	0	\$0.00		\$0.00
Abandonment	EA	0	\$0.00		\$0.00
Subtotal Groundwater Monitoring Well Maintenance:					\$5,652.80

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
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## 8. Gas System Maintenance Assume \$30,000 per year for all maintenance.

Piping, Vents	LF	0	\$0.00		\$0.00
Blowers	EA	0	\$0.00		\$0.00
Flaring Units	EA	0	\$0.00		\$0.00
Meters, Valves	EA	0	\$0.00		\$0.00
Compressors	EA	0	\$0.00		\$0.00
Flame Arrestors	EA	0	\$0.00		\$0.00
Operation	LS	0	\$0.00		\$0.00
Subtotal Gas System:					\$30,000.00

## 9. Landscape

Mowing	AC	155	\$234.64	(a)	\$36,369.20
Fertilizing	AC	155	\$293.31	(a)	\$45,463.05
Subtotal Landscape Maintenance					\$81,832.25

a. Annual cost for 1997 was multiplied by an inflation factor of 1.02 for 1998, 1.01 for 1999, 1.015 for 2000 and 1.02 for 2001.

b. Labor rates include direct and indirect labor costs, including benefits, etc. The 1997 rates were multiplied by an inflation factor of 1.02 for 1998, 1.01 for 1999, 1.015 for 2000 and 1.02 for 2001.

DESCRIPTION	IT	QUANTITY	IIT COST	ANNUAL COST
10. Erosion Control & Cover Maintenance				
Sodding	SY	* 15,004	\$1.87 (a)	\$28,057.48
Regrading Included with Seeding, Soil	SY	* 15,004	\$0.99 (a)	\$14,853.96
Liner Repair Included with Seeding, Soil	SY	** 7,502	\$3.105 (b)	\$23,293.71
Clay	CY	** 2,501	\$15.00 (c)	\$37,515.00
Subtotal Erosion Control and Cover Maintenance:				\$103,720.15
* 2% of the 155 acre landfill				
** 1% of the 155 acre landfill				
11. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	1	\$4,906.20 (a)	\$4,906.20
Ditch Cleaning	LF	10,400	\$1.06 (a)	\$11,024.00
Subtotal Storm Water System Maintenance:				\$15,930.20
12. Security System Maintenance				
Assume \$10,000 per year for all maintenance.				
Fences	LF			
Gate(s)	EA			
Sign(s)	EA			
Subtotal Security System:				\$10,000.00
13. Utilities				
Include Leachate Pumps, Blowers, Lighting, etc.	LS	1	\$42,726.00 (e)	\$42,726.00
14. Administrative				
P.E. Supervisor	HR	2,080	\$26.66 (d)	\$55,452.80
On-Site Engineer	HR	0	\$0.00	\$0.00
Office Engineer	HR	0	\$0.00	\$0.00
On-Site Technician	HR	8,320	\$19.20 (d)	\$159,744.00
Other (Explain)		0	\$0.00	\$0.00
Subtotal Administrative:				\$215,196.80
15. Contingency				
% of Total	N/A	0	\$0.00	\$0.00
Subtotal Contingency:				\$0.00

a. See Unit Costs in Closure Estimates above.

b. Based upon Textured/Two Sides, 40 mil HDPE liner material from GSE as provided by Bob Trexler on August 19, 2002.

c. Unit price based upon Bid prices from R.B. Baker Construction, Inc. received October 19, 2001 for Incremental Closure Construction.

d. Labor rates include direct and indirect labor costs, including benefits, etc. The 1997 rates were multiplied by an inflation factor of 1.02 for 1998, 1.01 for 1999, 1.015 for 2000 and 1.02 for 2001.

e. Based on average monthly utility cost of \$3,560.

16. Site Specific Costs (explain)

Unit Costs

LS

LS

LS

Subtotal Administrative:

\$0.00

**ANNUAL LONG-TERM CARE COST (\$/Year)**

\$721,029.51

**NUMBER OF YEARS OF LONG-TERM CARE**

30

**TOTAL LONG-TERM CARE COST (\$)**

\$21,630,885.19



**Wheelabrator Ridge Energy Inc.**

A Waste Management Company

3131 K-Ville Avenue  
Auburndale, FL 33823  
(863) 665-2255

February 15, 2003

Wheelabrator Ridge Energy, Inc.  
3131 K-Ville Avenue  
Auburndale, FL 33823

Trail Ridge Landfill Inc.  
Attn: Linda Hair  
5110 US Highway 301  
Baldwin, FK 32234

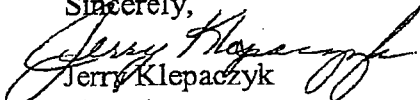
Re: Tire Disposal Fees

Dear Linda,

Per our conversation on Friday, February 14, 2003, the purpose of this letter is to verify the disposal fee charged to Trail Ridge Landfill for waste tires delivered to Ridge. Trail Ridge Landfill is charged \$68.00 per ton of tires. This price includes the transportation to our facility and the disposal of the tires.

If you have any questions, please feel free to call me at (863) 665-2255 ext. 116.

Sincerely,

  
Jerry Klepaczyk  
Plant Accountant



DEP002768