



DEP  
NORTHEAST DISTRICT  
RECEIVED

2010 APR 14 PM 2:03

**WASTE MANAGEMENT OF NORTH FLORIDA**

Trail Ridge Landfill, Inc.

5110 U.S. Highway 301 South

Baldwin, FL 32234-3608

P: 904.289.9100 F: 904.289.9013

April 12, 2010

Emerson Raulerson  
Florida Department of Environmental Protection  
7825 Baymeadows Way, Suite 200B  
Jacksonville, FL 32256-7590

Re: Trail Ridge Landfill *Don Val*  
Methane Monitoring Results/1st Qtr. 2010  
FDEP Permit # 0013493-010-SC  
I.D. #: NED/16/00033628

Dear Mr. Raulerson:

In accordance with Specific Condition #35 of the above referenced permit, enclosed please find the 2<sup>nd</sup> Quarter 2010 Gas Monitoring Data for Trail Ridge Landfill. As indicated on the report, there was no detection of methane gas at the site.

If you have any questions or need additional information regarding this submittal, please contact me at (904) 289-9506, or email at eparker1@wm.com.

Respectfully Submitted,

Eric Parker, CHMM  
Environmental Protection Manager  
North Florida Market Area

cc: Greg Mathes, Waste Management  
Jim Christiansen, Waste Management  
James Getting, Waste Management  
Brian Dolihite, Waste Management  
Chris Pearson, City of Jacksonville

Transmitted via email to Emerson.Raulerson@dep.state.fl.us

**TRAIL RIDGE LANDFILL**  
**QUARTERLY LANDFILL GAS MONITORING AND ACTIVITIES REPORT**  
**2<sup>nd</sup> QUARTER 2010**

APR 14 PM 2:03

**SIGNIFICANT ACTIVITIES**

- (1) Regular gas monitoring occurred on 04/12/2010 and is presented below. No gas was detected.

**GAS MONITORING RESULTS**

Date Monitored: April 12, 2010

Analyst: Robby Litherland

Instrument Type: GEM 2000; Serial No: GM11061

- Calibration Acceptable: Yes; Span Gas 50% volume, response 49.5%, adjusted 50%


Water Level Instrument Type: Slope Indicator; Serial No.:19802

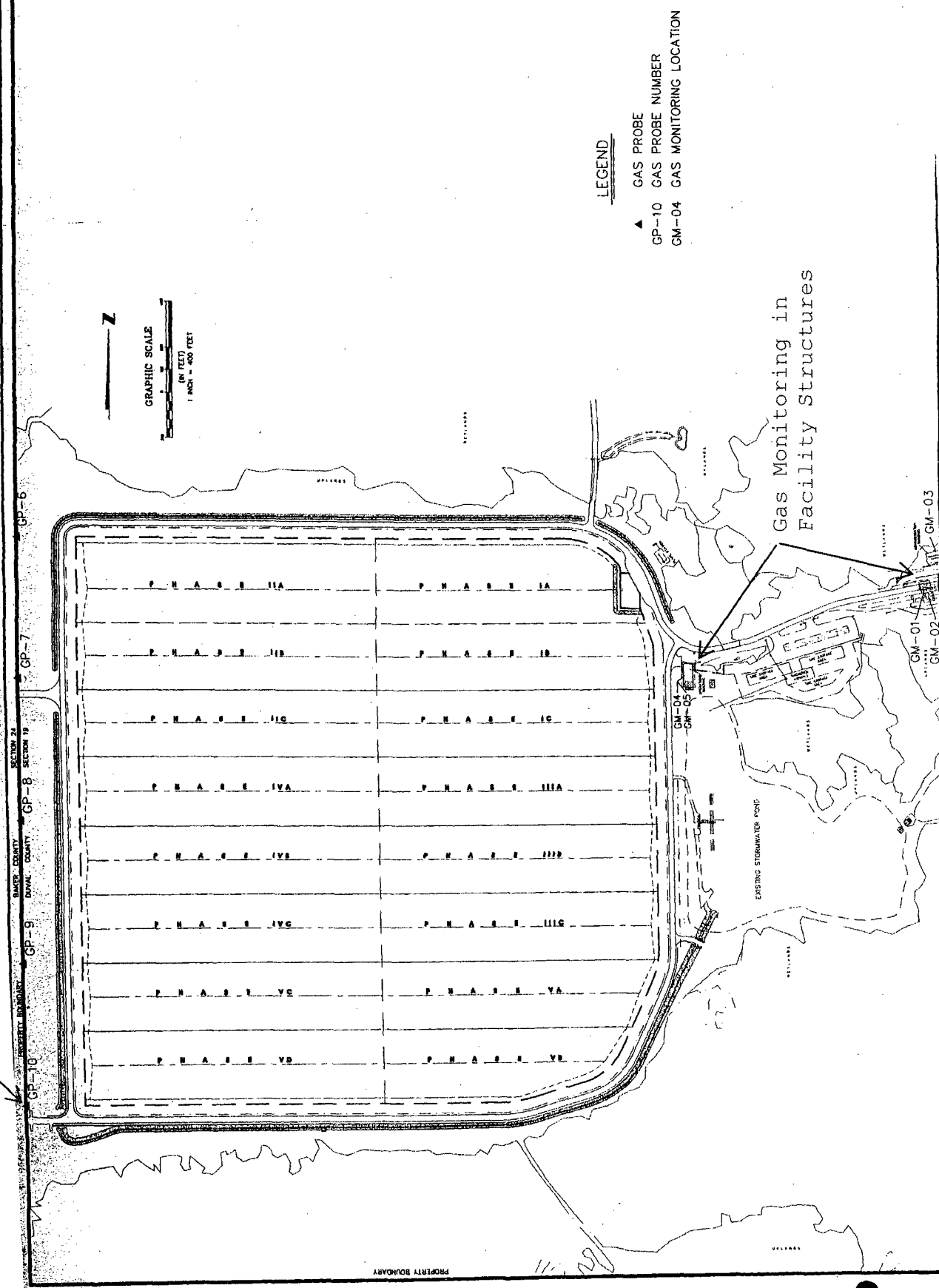
Weather Conditions; 75°F, Sunny, Winds Northeast 10 Mph

Barometric Pressure: 30.03" Hg

MON. POINT	TIME	PRESSURE (inches w.c.)	METHANE (% by Vol. air)	METHANE (% LEL)	LIQUID LEVEL (FT TOC)	COMMENTS
GP-06	1020	N/A	0	0	0.0'	
GP-07	1013	N/A	0	0	0.0'	
GP-08	1007	N/A	0	0	0.0'	
GP-09	1004	N/A	0	0	0.0'	
GP-10	1001	N/A	0	0	0.0'	
GM-01	0832	N/A	0	0	N/A	Scale House South
GM-02	0830	N/A	0	0	N/A	Scale House North
GM-03	0834	N/A	0	0	N/A	Admin. Building
GM-04	0817	N/A	0	0	N/A	1 <sup>st</sup> Floor Op's
GM-05	0811	N/A	0	0	N/A	2 <sup>nd</sup> Floor Op's

Comments: GP-are permanent probes; GM-are in structure locations

 <p><b>England-Thibault, Inc.</b> ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS</p>	<p>1470 N. ATLANTIC ROAD APOKALIPSE, FLORIDA 33668 CERTIFICATE OF ADOPTION NUMBER 004 PHONE NUMBER (813) 443-0000 FAX NUMBER (813) 443-4183</p>	<p><b>TRAIL RIDGE LANDFILL PERMIT RENEWAL</b> FOR <b>TRAIL RIDGE LANDFILL, INC.</b></p>	<p>DATE: SEPTEMBER 29, 2002</p>
			<p>DRAWN BY: J.A.C.</p>
			<p>CHECKED BY: J.A.C.</p>
			<p>DESIGNED BY: J.A.C.</p>
<p><b>GAS PROBE PLAN</b></p>			
<p>ETN NO. 02-032</p>			
<p>REVISIONS</p>			



OCULUS Insert

Catalogs:

Solid Waste

Profiles:

Discovery Compliance

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View File

☐ Add to Workflow?

County

DUVAL

Facility-Site ID

33628

Document Date

04-12-2010

Received Date

04-14-2010

Document Type

MONITORING PLANS AND REPORTS RELATED

Contractor ID

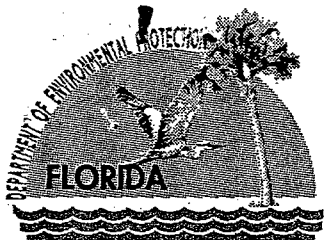
Facility Type

CMS

Document Subject

2010 1st QTR GAS MONITORING REPORT

TRAIL RIDGE LP



# 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.*

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.



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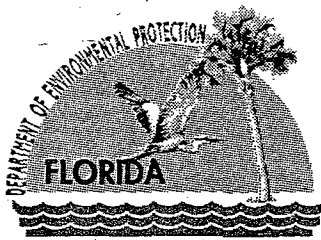
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Emerson Raulerson, P. E.  
Solid Waste Section

JB/ml 

cc Tom Clayton, Esq.





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Sincerely,

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Emerson Raulerson, P. E.  
Solid Waste Section

JB/ml *ml*

cc Tom Clayton, Esq.



# RECEIVED

Florida Department of Environmental Protection

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

NOV 30 2005

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL 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: \_\_\_\_\_

## 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

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.

☒

**(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.

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

clmji@etminc.com

Engineer's E-Mail Address

## 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>>

**RECEIVED**  
 FLORIDA  
 NOV 30 2005  
 STATE OF FLORIDA  
 DEPARTMENT OF ENV. PROTECTION  
 NORTHEAST DISTRICT - JACKSONVILLE

# Florida Department of Environmental Protection

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

13493  
 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 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  
 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

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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)

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\* 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

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

**IV. CERTIFICATION BY ENGINEER**

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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



**RECEIVED**

NOV 30 2005

STATE OF FLORIDA  
DEPARTMENT OF ENV. PROTECTION  
NORTHEAST DISTRICT  
Date: November 16, 2005

# Florida Department of Environmental Protection

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DEP Form # 62-701.900(28)

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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

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  
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

**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.

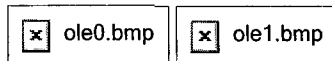
In the past, the City of Jacksonville has submitted the closure and post closure costs for the landfill based upon information provided by an independent engineer. The closure and post closure costs are due to the Florida Department of Environmental Protection by September 1st of each year.

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**

RECEIVED

SEP 02 2005

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Interoffice Memorandum

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
NORTHEAST DISTRICT - JACKSONVILLE

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



# Florida Department of Environmental Protection

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

DEP Form # 52-701.500(2)

Form Title: Financial Assurance Cost Estimate Form

Effective Date:

DEP Application No.

(Filed 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>1-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  
Panama, FL 32301-5294  
850-508-2300

Northwest District  
7226 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7090  
904-449-4300

Central District  
3319 Maguire Blvd., Ste. 202  
Orlando, FL 32803-3707  
407-394-7883

Southwest District  
3904 Coconut Palms Dr.  
Tampa, FL 33619  
813-744-6100

South District  
2285 Victoria Ave., Ste. 204  
Fort Myers, FL 33901-3801  
941-332-8275

Southwest District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-491-0600

40 CFR Part 264 has adopted by reference in Rule 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
<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>\$728,238.81</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 62-701.830 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.

Juanita Bader Clem  
Signature of Engineer  
8/12/04

Juanita 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

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

DEP FORM 62-701.900(28)  
Effective

Page 2 of 11

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:jbm1

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.

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. Terver, 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. Mize, 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 # 32-701.500(2/83)
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 32301-5734  
850-595-8300

Northwest District  
7625 Bayview Drive, Ste. 8208  
Jacksonville, FL 32216-7620  
904-448-4300

Central District  
3319 Maguire Blvd., Ste. 202  
Orlando, FL 32835-9737  
407-994-7886

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

South District  
2285 Victoria Ave., Ste. 304  
Fort Myers, FL 33901-3881  
941-333-6976

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-851-8800

40 CFR Part 264 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) 486-0300.

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

=

\$14,120,588.63

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 62-701.630 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) 842-8990  
Telephone Number

Chris Pearson  
Signature of Owner/Operator

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

(904) 630-4583  
Telephone Number

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

clem@atm-inc.com  
Engineer's E-Mail Address

DEP FORM 62-701.900(28)  
Effective

Page 2 of 11

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:mbl

Enclosures

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



# Florida Department of Environmental Protection

Twin Towers Office Bldg., 2400 Blair Stone Road, Tallahassee, FL 32399-3400

DEP Form # 32-701.909210

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 SC18-18444)  
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-02</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

Northeast District  
100 Governmental Center  
Pensacola, FL 32501-6784  
850-469-8300

Northeast District  
7828 Baymeadows Way, Ste. 8200  
Jacksonville, FL 32256-7800  
904-448-6206

Central District  
3319 Maguire Blvd., Ste. 232  
Orlando, FL 32803-5787  
407-894-7356

Southeast District  
3804 Coconut Palm Dr.  
Tampa, FL 33618  
813-744-8180

South District  
2286 Volusia Ave., Ste. 204  
Fort Myers, FL 33901-2881  
867-353-8878

Southeast District  
400 South Congress Ave.  
West Palm Beach, FL 33401  
561-851-8839

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 62-701.630 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) 642-8890

Telephone Number

DEP FORM 62-701.900(28)  
Effective

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

clemi@etm-inc.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. Slops and Fill (bedding layer between waste and barrier layer):				
Excavation	CY	NA	\$0.00	\$0.00
Placement and Spreading	SY	575,960	\$0.99 (a)	\$570,200.40
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:				\$570,200.40
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY	78,958	\$15.00 (b)	\$1,154,340.00
Synthetics - 40 mil	SY	345,092	\$3.105 (c)	\$1,071,510.68
Synthetics - GCL	SY	NA	\$0.00	\$0.00
Synthetics - Geonet	SY	NA	\$0.00	\$0.00
Synthetics - Other	SY	NA	\$0.00	\$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 Included with material	CY	0	\$0.00	\$0.00
Spread Included with material	CY	0	\$0.00	\$0.00
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 Treder 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(2B)  
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DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
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#### 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	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.

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
<b>8. Gas Control: Active Extraction</b>				
Traps	EA	5	\$3,138.00 (a)	\$15,690.00
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	6,180	\$100.00 (b)	\$618,000.00
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 Certified Engineer Included in Certification of Closure	LS	1	\$70,000.00	\$70,000.00
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, 1998 for construction of Phase 1 Gas Management system and multiplied by an inflation factor of 1.01 for 1998, 1.018 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	\$85.00	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	\$85,000.00	\$85,000.00

Subtotal Professional Services \$528,824.00

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) \$25,863.20
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) \$7,797.08 (b)
Subtotal Groundwater Monitoring:				\$39,560.28
<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) \$1,252.58
* Semi-Annual report included with groundwater monitoring report.				
Annual	1	0	\$0.00	\$0.00
Subtotal Surface Water Monitoring:				\$1,252.58
<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), (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
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 \$18.40 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	\$26.88	(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	\$234.84	(a)	\$36,389.20
Fertilizing	AC	155	\$293.31	(a)	\$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.

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:				\$215,196.80
<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 18, 2002.

c. Unit price based upon Bid prices from R.B. Baker Construction, Inc. received October 18, 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.

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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

**WM**

**RECEIVED**

**TRAIL RIDGE LANDFILL, INC.**  
A WASTE MANAGEMENT COMPANY

5110 U.S. Highway 301, South  
Baldwin, FL 32234-1608  
(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  
8925 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)

copy documents/ward greg 06/08/00 from resp.doc



**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



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.

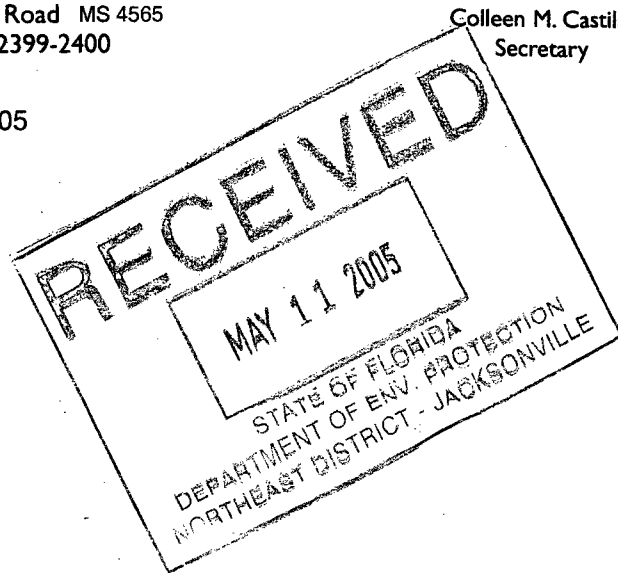
If you have any questions, please contact me at (850) 245-8732.

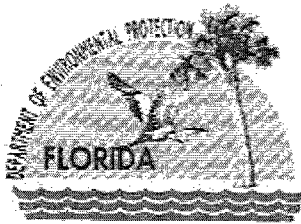
Sincerely,

Frank Hornbrook  
Environmental Specialist  
Solid Waste Section

FH

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





# Department of Environmental Protection

Jeb Bush  
Governor

Twin Towers Office Building  
2600 Blair Stone Road MS 4565  
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/swfr/>

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Interoffice Memorandum

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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



# 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	* Indicates mechanisms that require use of a Standby Trust Fund Agreement
_____ Performance Bond*	<u>X</u> 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

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

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



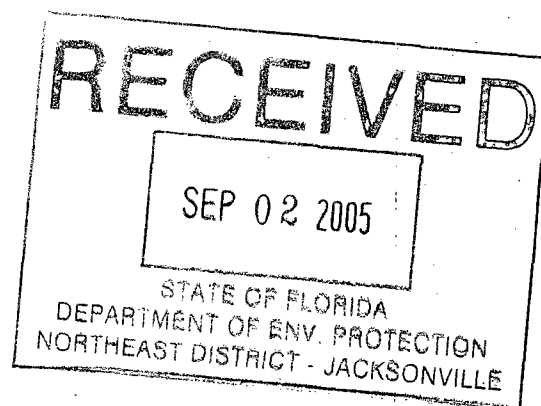
**Disposal Operations**

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.

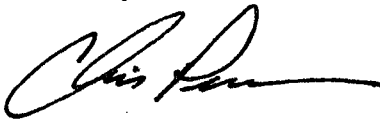
September 1, 2004  
Ms. Mary Nogas, P.E.  
Page 2

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 cursive script, appearing to read "Chris Pearson", written in black ink.

Chris Pearson

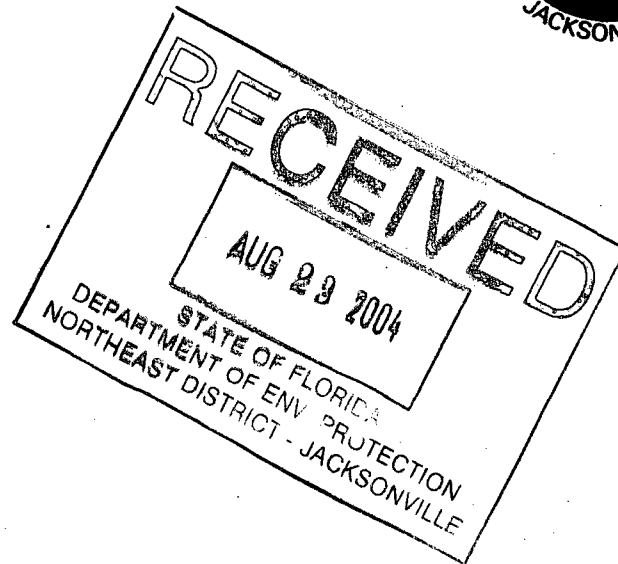
Cc: A. Wood  
J. Eggleton Davis  
T. Clayton Esq.



**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*



# England-Thims & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

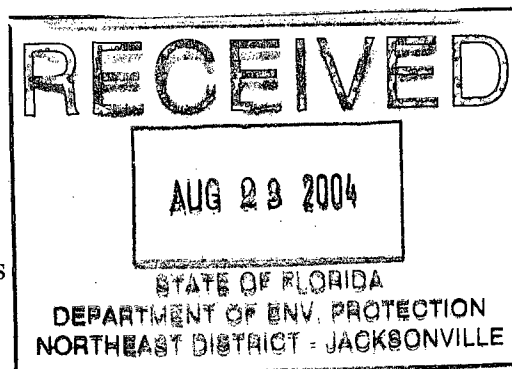
## Principals

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.

August 12, 2004

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



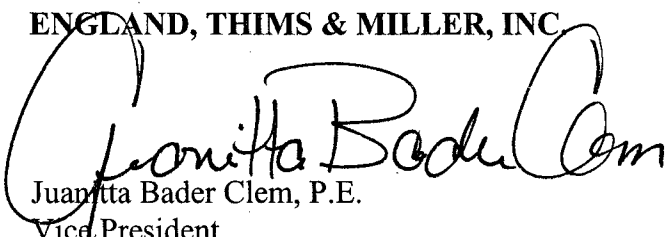
Dear Mr. Pearson:

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, THIMS & 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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- » [Forms](#)
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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	* Indicates mechanisms that require use of a Standby Trust Fund Agreement
_____ Performance Bond*	<u>X</u> Escrow Account	
_____ Guaranty Bond*	_____ Trust Fund Agreement	

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

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

Dec. 13, 2003 (w/renewal application)

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<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:

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<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**

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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  
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

**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



13493  
**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

**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.  
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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

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.**

Juanitta Bader Clem, P.E.  
Vice President

Attachment

cc: Chris Pearson  
Greg Mathes  
Achaya Kelapanda  
Mark Behel



# 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)

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Date: August 18, 2003

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

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Permittee: Trail Ridge Landfill, Inc.  
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Latitude: 30°14'00"N Longitude: 82°02'30"W or UTM: \_\_\_\_\_

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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  
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Pensacola, FL 32501-5794  
850-595-8360

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Orlando, FL 32803-3767  
407-894-7555

Southwest District  
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813-744-6100

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Southeast District  
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West Palm Beach, FL 33401  
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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>\$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 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 62-701.630 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



# Department of Environmental Protection

Jeb Bush  
Governor

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.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Interoffice Memorandum

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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

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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 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

40 CFR Part 264 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 62-701.630 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@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 (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 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:				\$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 Included with material	CY	0	\$0.00	\$0.00
Spread Included with material	CY	0	\$0.00	\$0.00
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

DESCRIPTION	UNIT	QUANTITY	UNIT 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 Installed during operation	EA	0	\$0.00	\$0.00
Flare Assembly	EA	1	\$138,626.67 (a)	\$138,626.67
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				
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 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, 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

	Rate/Hr	Hours	LS
P.E. Supervisor	\$125	104	\$13,000
On-Site Engineer	\$0	0	\$0
Office Engineer	\$100	208	\$20,800
On-Site Technician	\$75	1300	\$97,500
Other (Explain)			
Clerical			\$5,824
Expenses			\$10,000

## Quality Assurance

	Rate/Hr	Hours	LS	Total
	\$105.00	100	\$10,500	\$23,500
	\$65.00	1200	\$78,000	\$78,000
	\$90.00	400	\$36,000	\$56,800
	\$40.00	4800	\$192,000	\$289,500
				\$5,824
				\$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
1. Groundwater Monitoring (62-701.510(6), and (8)(a))				
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>
2. Surface Water Monitoring (62-701.510(4), and (8)(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>
3. Gas Monitoring				
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
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 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
-------------	------	----------	-----------	-------------

## 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	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	\$4,906.20 (a)	\$4,906.20
Ditch Cleaning	LF	10,400	\$1.06 (a)	\$11,024.00
Subtotal Storm Water System Maintenance:				\$15,930.20
<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	\$42,726.00 (e)	\$42,726.00
<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)	\$159,744.00
Other (Explain)		0	\$0.00	\$0.00
Subtotal Administrative:				\$215,196.80
<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 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

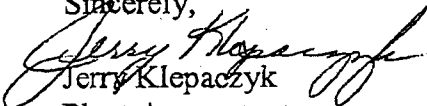
Re: Tire Disposal Fees

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