

TRAIL RIDGE  
PERMITTING  
DUVAL COUNTY

2009



## Bogin, Michael

---

**From:** Juanitta Clem [ClemJ@etminc.com]  
**Sent:** Wednesday, July 29, 2009 12:49 PM  
**To:** Bogin, Michael  
**Subject:** RE: Trail Ridge

Michael –

Please see the note on Drawing No. 9 that states “Vertical Datum based on NGVD 1929.” Yes, the maximum design elevation for Trail Ridge Landfill is elevation 350.6 feet NGVD.

### **Juanitta Clem**

Principal/P.E.

---

**From:** Bogin, Michael [mailto:Michael.Bogin@dep.state.fl.us]  
**Sent:** Wednesday, July 29, 2009 11:28 AM  
**To:** Juanitta Clem  
**Subject:** Trail Ridge

Juanitta,  
Please confirm that the maximum design elevation for the Trail Ridge Landfill is elevation 350.6 feet NGVD.  
Thank you.

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

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.*

**OCULUS Insert**

Catalogs: Solid Waste

Profiles: Permitting\_Authorization

☐ Add to Workflow?

County: DUVAL

Facility-Site ID: 33628 *Trail Ridge Landfill*

Document Date: 07-21-2009

Received Date: 07-21-2009

Document Type: PERMIT APPLICATION RELATED ⓘ

Contractor ID: \_\_\_\_\_

Facility Type: CLASS I LANDFILL (100) ⓘ

Document Subject: A clarification related to a proper acreage of disposal area of the Trail Ridge Landfill



## Bogin, Michael

---

**From:** Juanitta Clem [ClemJ@etminc.com]  
**Sent:** Tuesday, July 21, 2009 4:08 PM  
**To:** Bogin, Michael  
**Subject:** RE: Trail Ridge Landfill

Michael --

I just reviewed the drawings on AutoCAD and the limits of the liner system are approx. 144 acres. The landfill drainage area is approx. 153 acres (which includes the side slopes to the centerline of the perimeter ditch). I believe that we should be using 144 acres for the disposal area and for Financial Assurance.

Please feel free to give me a call if you have any questions.

**Juanitta Clem**

Principal/P.E.

---

**From:** Bogin, Michael [mailto:Michael.Bogin@dep.state.fl.us]  
**Sent:** Tuesday, July 21, 2009 3:23 PM  
**To:** Juanitta Clem  
**Subject:** Trail Ridge Landfill

Juanitta,

The current permit states that the Trail Ridge Landfill has a total disposal area of approximately 153 acres. The Application states that approximately 148 acres is used for the Trail Ridge Landfill. The financial assurance states that total landfill acreage included in a long term care is 144 acres.

Please clarify.

Thank you.

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

[www.dep.state.fl.us/northeast/waste/default.htm](http://www.dep.state.fl.us/northeast/waste/default.htm)>

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.*



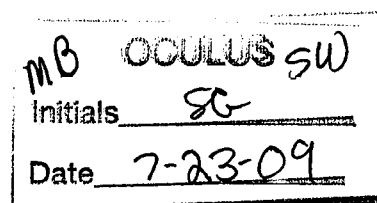


14775 Old St. Augustine Road ▪ Jacksonville, Florida 32258  
tel 904.642.8990 ▪ fax 904.646.9485 ▪ www.etminc.com

May 26, 2009

Mr. Michael Bogin  
Florida Department of Environmental Protection  
Northeast District Office  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256-7590

**RE: Trail Ridge Landfill  
Class I Landfill and Waste Tire Processing Facility  
Operation Renewal Application  
ETM No. 07-044-02**



#### PRINCIPALS

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

#### EMERITUS

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

Dear Mr. Bogin:

Pursuant to your request, please find herein the signed and sealed signature page (Page 2 of 11) for the Financial Assurance Cost Estimate Form. I had inadvertently forgotten to sign and seal this page on the second RAI Response submittal dated May 6, 2009.

Please contact me at 265-3181, if you have any questions or require additional information.

Sincerely,

**ENGLAND-THIMS & MILLER, INC.**

Juanitta Bader Clem, P.E.  
Vice President

Attachment: Financial Assurance Cost Estimate Form (Appendix N) Page 2 of 11

cc: Greg Mathes, Trail Ridge Landfill, Inc.  
Chris Pearson, City of Jacksonville  
Brian Dolihite, Trail Ridge Landfill, Inc.

RECEIVED  
MAY 26 2009  
NORTHEAST DISTRICT  
DEP-JACKSONVILLE

ENGINEERS ▪ PLANNERS ▪ SURVEYORS ▪ GIS ▪ LANDSCAPE ARCHITECTS

JACKSONVILLE ▪ PANAMA CITY

CA-00002584 LC-0000316

DEP002773

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: \_\_\_\_\_

Latest Department Approved		Current Year		Inflation Adjusted
_____	X	_____	=	_____

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

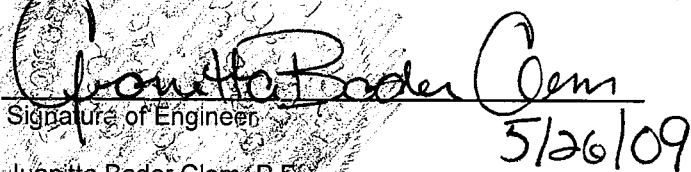
Latest Department Approved Annual Long-Term Care Cost Estimate		Current Year Inflation Factor		Inflation Adjusted Annual Long-Term Care Cost Estimate
_____	X	_____	=	_____
Number of Years of Long-Term Care Remaining:			X	_____
Inflation Adjusted Long-Term Care Cost Estimate:			=	_____

☒

**(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.

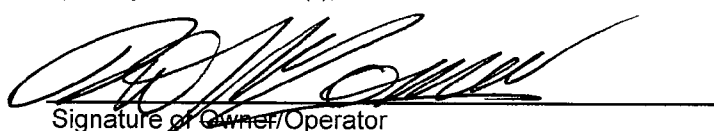
  
Signature of Engineer  
5/26/09

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

43245  
Florida Registration Number (affix seal)

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

(904) 265-3181  
Telephone Number

  
Signature of Owner/Operator

R. D. McConnell, Area Vice President  
Name & Title (please type)

(904) 289-9100  
Telephone Number

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

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

**ID:****296623**This ID is read by a scanner.  
Do not mark.**DWM Preindex Coversheet**

ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

**Submittal Data**Catalog **Solid Waste**Profile **Permitting\_Authorization**County **DUVAL**Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**Document Date **05-26-2009**Received Date **05-26-2009**Document\_Type **PERMIT APPLICATION RELATED**

Contractor ID

Facility Type **CLASS I LANDFILL (100)**Document Subject **Additional info related to Response to 2nd RAI**☐ Double Sided☐ Oversized Pages

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

☐ Data Sheet

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

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

Comments

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

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

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

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

bogin\_m

Date 7/1/09



# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

February 19, 2009

Mr. R.D. McConnell  
Area Vice President  
Trail Ridge Landfill, Inc.  
5110 U.S. Highway 301  
Baldwin, Florida 32234

**Re: Trail Ridge Landfill  
Class I Landfill and Waste Tire Processing Facility, Operation Renewal Application  
FDEP File Numbers 0013493-017 and 0126289-002  
WACS I.D. Number: NED/16/00033628  
Second Request for Additional Information  
Duval County – Solid Waste Permitting**

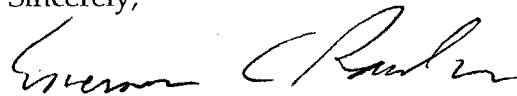
Dear Mr. McConnell:

The Florida Department of Environmental Protection (DEP) has reviewed your submittal received on December 16, 2003, and requests the following information: your permit application dated and received October 15, 2008. The following reviews are enclosed:

Attachment 1, Review Memorandum dated February 19, 2009, prepared by Michael Bogin.

The information requested in these reviews is required for DEP to continue processing your permit application. Please provide the requested information by March 19, 2009. Action on the application will be delayed until the requested information is received in this office. Please reference the associated DEP file number and WACS I.D. number in all written correspondence concerning this project. If you have any comments about this matter, please contact Michael Bogin at the letterhead address, at e-mail Michael.Bogin@dep.state.fl.us, or telephone number 904.807.3355.

Sincerely,

  
Emerson C. Raulerson, P.E.  
Solid Waste Section Supervisor

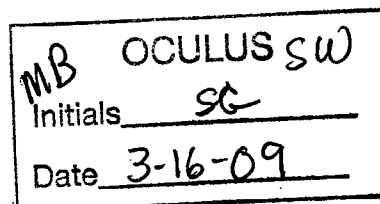
ECR:mb:rm

Enclosure

cc: Juanitta Bader Clem, P.E. - England, Thims, and Miller, Inc.

*More Protection. Less Process*

[www.dep.state.fl.us](http://www.dep.state.fl.us)



DEP002776

# Florida Department of

## Environmental Protection

### Memorandum

TO: Files

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

FROM: Michael Bogin *MB*  
Solid Waste Engineer

DATE: February 19, 2009

SUBJECT: Trail Ridge Landfill  
Class I Landfill and Waste Tire Processing Facility  
Operation Renewal Application  
FDEP File Numbers 0013493-017 and 0126289-002  
WACS I.D. Number: NED/16/00033628  
Second Request for Additional Information  
Duval County – Solid Waste Permitting

The Florida Department of Environmental Protection (DEP) has reviewed the above-referenced permit application dated and received January 20, 2009. The following are comments and/or requests for additional information:

1. In responding to this request for additional information (RAI) if one response modifies a section of the Operations Plans or the Contingency Plan and Emergency Procedures Plan, the respective section(s) should be modified accordingly. A revised, complete version of the plans that includes all revisions made in responding to this RAI should be attached. To enable DEP to view changes to the plan, all additions should be underlined (e.g., added) and all deletions should be struck through (e.g., ~~deleted~~). By this method, DEP hopes to have one final version of the respective plans that includes all revisions made during this permitting process.
- 2-12. Responses are adequate.
13. Response is not adequate.
  - a. Please note, due to the potential variability between separate third party quotes, DEP deems that utilizing either the highest number from two quotes or the average from three quotes as a more reasonably conservative approach. Therefore, please revise the cost estimates accordingly.
  - b. Please explain why the excavation and supply of soil material were not considered in Item 2 of the cost estimates.

- c. A quote from the J.B. Coxwell Contracting, Inc does not have a contact information. Please provide.
- d. The administrative costs, listed in Items 6 and 14 in Annual Cost for Long-Term Care, are based on DEP 's employees salaries; however, in reality, DEP should have enough money to hire third party professionals to do administrative job. Therefore, professional services costs in Item 11 on page 6 of 11, in Items 6 on page 9 of 11, and in Item 14 on page 10 of 11 should be similar. Please address.
14. Response is not adequate. Information was provided only from one source. Please note, due to the potential variability between separate third party quotes, DEP deems that utilizing either the highest number from two quotes or the average from three quotes as a more reasonably conservative approach. Therefore, please revise the cost estimates accordingly. Please ensure that the quotes indicate that they are valid for any user (including DEP) and are not only valid for the individual requesting the quote.
15. Response is not adequate. Only one quote from existing hauler was provided. Please note, due to the potential variability between separate third party quotes, DEP deems that utilizing either the highest number from two quotes or the average from three quotes as a more reasonably conservative approach. Therefore, please revise the cost estimates accordingly. Please ensure that the quotes indicate that they are valid for any user (including DEP) and are not only valid for the individual requesting the quote.
16. Response is adequate.
17. Response is not adequate. The inspection report and Appendix P were omitted in the Permit Documents. Please provide the missing information.
- 18-27. Responses are adequate.
28. Please note, the Department will require the Permittee to obtain written approval for use of contaminated soils, as is required in the existing Permit.
29. The response is not adequate. Specifying only that the contaminated soil stockpile must be stored a minimum of 20 feet from any side slope and surrounded by a silt fence is not adequate. It should specify that the contaminated soil stockpile will be stored a minimum of 20 feet from any and all side slopes, that it will be surrounded by a silt fence, and that the surrounding area will be contoured and/or bermed in such a way as to prevent any and all runoff from the stockpile to the surface water management system.

30-33. Responses are adequate.

34. Response is not adequate. The engineer of record shall review the video recording and shall provide a written evaluation of his/her review and a statement as to the sufficiency of the system. The evaluation shall be provided with the permit renewal application. Please submit the evaluation and the statement as required by Specific Condition 38.j of the existing permit.

35-36. Responses are adequate.

ECR:mb:rm

**ID:****245264**This ID is read by a scanner.  
Do not mark.**DWM Preindex Coversheet**

ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

**Submittal Data**Catalog **Solid Waste**Profile **Permitting\_Authorization**County **DUVAL**Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**Document Date **02-19-2009**Received Date **02-19-2009**Document\_Type **PERMIT APPLICATION RELATED**

Contractor ID

Facility Type **CLASS I LANDFILL (100)**Document Subject **2nd request for additional information**☐ Double Sided☐ Oversized Pages

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

☐ Data Sheet

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

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Comments

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

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

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

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

bogin\_m

Date 3/13/09





# Florida Department of Environmental Protection

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

311791 File 8/8  
Charlie Crist  
Governor  
Jeff Kottkamp  
Lt. Governor  
Michael W. Sole  
Secretary

August 5, 2009

MB	OCULUS SW
Initials	SG
Date	8-6-09

## CERTIFIED - RETURN RECEIPT

In the Matter of an  
Application for Permit by:

DEP File Numbers 0013493-017 & 0126289-002  
Duval County

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

## INTENT TO ISSUE

The Florida Department of Environmental Protection (Department) gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application specified above, for the reasons stated below.

The applicant, Trail Ridge Landfill, Inc., applied on October 15, 2008, to the Department to renew the Class I Landfill and the Waste Tire Processing Facility Operations Permit. The main entrance to the Trail Ridge Landfill is located at 5110 U.S. Highway 301, in western Duval County, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes (F.S.) and Florida Administrative Code Chapters 62-4, 62-520, 62-550, and 62-701. The project is not exempt from permitting procedures. The Department has determined that a permit is required for the proposed work.

This Intent to Issue is in accordance with the Operation Permit Renewal Application received October 15, 2008, and supplemental information received October 22 and November 12, 2008, and January 20, May 7, May 26, and July 21, 2009, and includes Department File Numbers 0013493-017 & 0126289-002.

The applicant has provided reasonable assurance that the proposed work will comply with all applicable Department regulations and Chapter 403, F.S.

Pursuant to Section 403.815, F.S., you are required to publish at your own expense the enclosed Notice of Proposed Agency Action. The notice shall be published one time only within 30 days in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. Where there is more than one newspaper of general circulation in the county, the newspaper used must be one with significant circulation in the area that may be affected by the permit. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. You must provide proof of publication to the Department at the address listed below as soon as practical after publication.

The Department will issue the permit modification with the attached conditions unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

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

Petitions by the applicant or any of the parties listed below must be filed within 14 days of receipt of this written notice. Petitions filed by other persons must be filed within 14 days of publication of the notice or receipt of the written notice, whichever occurs first. Under Section 120.60(3), F.A.C., however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination

(hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Numbers 0013493-017 & 0126289-002 and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;

(d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;

(e) A statement of the ultimate facts alleged, including a statement of the specific facts which the petitioner contends warrants reversal or modification of the Department's action or proposed action;

(f) A statement of the specific rules or statutes the petitioner contends requires reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

Mediation is not available in this proceeding.

Any party to this order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and

Intent to Issue  
Page four

by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal.

The notice of appeal must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

*Michael J. Fitzsimmons*

Michael J. Fitzsimmons  
Waste Program Administrator  
Northeast District  
7825 Baymeadows Way, Suite B-200  
Jacksonville, Florida 32256-7590

Copies furnished to:  
Juanitta Bader Clem, P.E. - England, Thims, and Miller, Inc.  
Chris Pearson, City of Jacksonville

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this INTENT TO ISSUE was mailed by certified mail before the close of business on August 5, 2009.

"FILED, on this date, pursuant to Section 120.52,  
F.S., with the designated Department Clerk,  
receipt of which is hereby acknowledged."  
*Doretha D. Benfield* 8/5/09  
Clerk Date

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
NOTICE OF PROPOSED AGENCY ACTION

The Department of Environmental Protection gives Notice of its Intent to Issue a permit to the Trail Ridge Landfill, Inc. to renew its Class I Landfill and Waste Tire Processing Facility Operation Renewal Permit. The main entrance to the Trail Ridge Landfill is located at 5110 U.S. Highway 301, in western Duval County, Florida.

The Department's file on this matter is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at 7825 Baymeadows Way, Suite 200B, Jacksonville, Florida.

A person whose substantial interests are affected by the above proposed agency action may petition for an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, Marjory Stoneman Douglas Building, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within 14 days of publication of this notice or receipt of the written notice, whichever occurs first. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Numbers 0013493-017 & 0126289-002, and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;

(e) A statement of facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

In accordance with Section 120.573, F.S., the Department advises that mediation is not available in this case as an alternative to filing a petition for an administrative determination.



# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

## PERMITTEE:

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-017-SO  
Date of Issue: DRAFT  
Expiration Date: DRAFT  
Lat/Long: 30°13'27"/82°02'40"  
Section/Town/Range: 18, 19, 20, 21/3S/23E  
Project: Trail Ridge Landfill - Class I and  
Waste Tire Processing Facility Operations  
Renewal of Permit 0013493-010-SC

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.) and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-520, 62-522, 62-550, and 62-701. The above-named Permittee is hereby authorized to perform the work and maintain the Facility shown on the application and approved drawing(s) plans, and other documents attached hereto or on file with the Florida Department of Environmental Protection (DEP or Department) and made a part hereof, and specifically described as follows:

To continue to operate, maintain, and monitor the Trail Ridge Landfill (Facility), with a total disposal area of approximately 144 acres. The Class I Landfill (Landfill) was constructed in 16 phases (IA, IB, IC, IIA, IIB, IIC, IIIA, IIIB, IVA, IVB, IIIC, IVC, VA, VB, VC and VD) and each phase is authorized to accept waste.

Each phase of the Landfill has a double liner system consisting of, from top to bottom: a 24-inch protective soil layer with a minimum hydraulic conductivity of  $1 \times 10^{-3}$  cm/sec; a 16-oz. geotextile fabric; a 20-mil drainage layer (geonet); a 60-mil high density polyethylene (HDPE) primary liner; a geosynthetic clay liner (GCL/bentonite mat); a 6-oz. geotextile fabric; a 20-mil geonet; a 60-mil HDPE secondary liner; and a 6-inch compacted subgrade with a maximum saturated hydraulic conductivity of  $1 \times 10^{-5}$  cm/sec. However, in Phases IA, IB, IC, IIA, IIB, and IIC, the GCL is located below the secondary liner as opposed to below the primary liner. The 60-mil HDPE primary and secondary liners are required to have a maximum water vapor transmission rate of  $0.24 \text{ g/m}^2 \times \text{day}$ .

The Landfill will be operated and closed in phases.

This permit also authorizes the Permittee to continue to operate an active gas collection system and to continue operating a waste tire processing facility, as well as to stay connected to the adjacent Landfill Gas-to-Energy Facility.

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

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

This permit includes DEP File Numbers 0013493-017 and 0126289-002, and is issued in accordance with the solid waste permit renewal application received on October 15, 2008, and with supplemental information received October 22, November 12, 2008, January 20, May 7, May 26, July 21, 2009, and which are further specified below:

Document 1 - Permit Documents for Trail Ridge Landfill - Third Renewal, Permit Application and Drawing Sheets 1 through 23, and 9A, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P. E., dated and received October 15, 2008;

Document 2 - Trail Ridge Landfill - Permit Renewal, Revised Drawing Sheet 4, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P. E., dated and received October 22, 2008;

Document 3 - Trail Ridge Landfill - Permit Renewal, Leachate collection system jet cleaning and video inspection report, prepared by England-Thims and Miller, Inc., signed by Scott Jordan Lockwood, P.E., dated November 10, 2008, and received November 12, 2008;

Document 4 - Permit Documents for Trail Ridge Landfill - Third Renewal, Response to DEP Request for Additional Information and revised Drawing Sheets 1 through 23, and 9A, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P. E., dated and received January 20, 2009;

Document 5 - Permit Documents for Trail Ridge Landfill - Third Renewal, Second Response to DEP Request for Additional Information, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P. E., dated May 6, 2009 and received May 7, 2009;

Document 6 - Trail Ridge Landfill - Signature Page for the Financial Assurance Cost Estimate Form, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P. E., dated and received May 26, 2009; and

Document 7 - Additional information related to a clarification of acreage of the total disposal area, prepared by England-Thims and Miller, Inc., submitted by Juanitta Bader Clem, P. E., dated and received July 21, 2009.

The following documents are incorporated by reference:



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Document 8 - List of previously provided documents from July 1990 to September 2008, referenced on the application form, submitted in Document 5, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P. E., dated May 6, 2009 and received May 7, 2009.

NOTE: The above-listed documents are referenced in this permit by document numbers.

#### **SPECIFIC CONDITIONS:**

1. **Permit Requirements.** The Trail Ridge Landfill (Facility) shall be operated, maintained, and monitored in accordance with this permit and all applicable requirements of F.A.C. Chapters 62-4, 62-520, 62-522, 62-550, and 62-701, and with the application, plans, specifications, and supporting information submitted in support of DEP File Numbers 0013493-017 and 0126289-002.
2. **Document Storage.** A copy of the DEP-approved engineering drawings, plans, reports, operation and contingency plans, and all revisions and supporting information, as well as a copy of this permit, shall be kept at the Facility office at all times for reference and inspections.
3. **Applicable Permits.** Receipt of any permits from DEP does not relieve the Permittee from obtaining other federal, state, and local permits required by law, including those of the St. Johns River Water Management District or from other Sections within DEP.
4. **Other Regulatory Requirements.** If any other regulatory agency or DEP division should require revisions or modifications to the permitted project, the Permittee shall notify the Solid Waste Section of DEP's Northeast District (District) of the revisions and/or modifications so a determination can be made as to whether or not a permit modification is required.
5. **Permit Renewal.** Pursuant to Rule 62-4.090, F.A.C., no later than DATE, the Permittee shall apply for a renewal of the Permit on forms and in a manner prescribed by DEP, in order to assure conformance with all applicable DEP Rules. Permits shall be renewed at least every five years as required by Rule 62-701.320(10)(b) F.A.C.
6. **Transfer of Permit.** DEP must be notified, in writing, using DEP Form Number 62-701.900(8) within 30 days of any sale, conveyance, or other transfer of the Facility, or within 30 days of any transfer of ownership or control of the real property at which the Facility is located, or within 30 days of a name change. All transfers of ownership or transfers of a permit are subject to the requirements of F.A.C., Chapter 62-4. In addition, permit transfers shall comply with the requirements of Rule 62-701.320(11), F.A.C.
7. **Emergency Notification.** The Permittee shall immediately notify DEP by telephone whenever a serious problem occurs at the Facility, including a fire or another emergency that poses an

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unanticipated threat to the public health or the environment. During regular business hours, notification shall be made to the District at 904.807.3300. If an emergency occurs outside regular business hours, the Permittee shall telephone the 24-hour emergency phone number 800.320.0519. This latter number is to be used for emergencies only. Within seven days of emergencies, the Permittee shall submit a written report to DEP explaining the extent of the problem, its cause, and what actions have been or will be taken to correct it, and prevent its recurrence.

8. **Provisions of Potable Water Source.** The Permittee shall provide a temporary source of potable water within seven days and a permanent safe drinking water supply within 180 days of discovery of contamination to replace any and all potable water wells that are shown by chemical and hydrogeologic analysis to be contaminated by the Facility. This water shall meet all drinking water standards set forth in F.A.C., Chapter 62-550, and shall be provided at the Permittee's expense.

9. **Financial Assurance and Cost Estimates.**

- a. **Financial Assurance.** The Owner and/or Operator of the Facility shall maintain, in good standing, the financial assurance mechanisms established to demonstrate proof of financial assurance. Support documentation and evidence of inflation adjustment increases shall be submitted within the time frames specified in Rule 62-701.630, F.A.C. All submittals in response to this specific condition shall be sent to:

Florida Department of Environmental Protection  
Financial Coordinator - Solid Waste Section  
Twin Towers Office Building  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida 32399-2400

- b. **Annual Cost Estimates Adjustment.** The Owner and/or Operator of the Facility shall annually adjust the closure and long-term cost estimates for inflation using DEP Form 62-701.900(28). Adjustments shall be made in accordance with Rule 62-701.630(4) F.A.C., and 40 CFR Parts 264.142(a) and 264.144(a). An owner or operator using a letter of credit, guarantee bond, performance bond, financial test, corporate guarantee, trust fund or insurance shall submit the adjusted cost estimate between January 1 and March 1. An owner or operator using an escrow account shall submit the adjusted estimate between July 1 and September 1. Closure costs shall include an annual estimate of the remaining life and capacity in cubic yards of the existing constructed landfills, and the remaining capacity and site life of other permitted areas not yet constructed. All submittals in response to this specific condition shall be sent to:

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Florida Department of Environmental Protection  
Solid Waste Section Supervisor  
7825 Baymeadows Way, Suite 200 B  
Jacksonville, Florida 32256-7590

with a copy to:

Florida Department of Environmental Protection  
Financial Coordinator - Solid Waste Section  
Twin Towers Office Building  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida, 32399-2400

10. **Access Control.** A chain link fence and gates shall be maintained to control access to the site to prevent unauthorized dumping. All gates shall be locked during non-operating hours, and all site visitors shall be required to check in at the entry inspection station before entering the site.
11. **Hours of Operation.** The normal operating hours for the Facility shall be from 6:00 A.M. to 7:00 P.M., Monday through Friday, and from 5:00 A.M. to 2:00 P.M. on Saturdays. Depending on the waste receipt rate, these normal operating hours may be extended from 5:00 A.M. to 10:00 P.M. The hours of operation shall be posted on the Facility's front gate. During emergency situations (e.g., after a hurricane) the Facility may operate beyond these specified hours; however, DEP shall be notified, at the first available opportunity, of the extended hours.

If landfill operations commence before daylight or extends beyond non-daylight hours, the Permittee shall provide adequate illumination at the site (especially at the working face and unloading areas) to ensure proper waste screening. All working/dumping areas and equipment operation areas shall be illuminated with a minimum intensity of three foot-candles. The Facility's lighting equipment shall be kept and maintained at the site. The Permittee shall be responsible for ensuring that adequate staff to cover all shifts and equipment is available at the Facility to maintain proper landfill operations.

12. **Operating Personnel.** As required by F.A.C., Rule 62-701.500(1), at least one trained operator who will be responsible for the operation, supervision, and maintenance of the Facility shall be present at the landfill during all times when the landfill receives waste. Trained operators are those who satisfy the "operator" definition provided in F.A.C., Rule 62-701.200 and the training requirements of F.A.C., Rule 62-701.320(15) for both initial and continued training.

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Additionally, at least one trained spotter shall be present at the working face at all times the landfill is receiving waste. The spotter(s) shall inspect all loads for unauthorized wastes while waste is being unloaded at the working face and while it is being spread. Solid waste shall not be compacted unless it has been completely inspected. Prohibited waste discovered at the disposal area shall be removed and properly handled in accordance with the Operation Plan contained in Document 5. The personnel present during operating hours on the landfill shall include, at a minimum, a trained operator, a trained spotter, a material handler (laborer), and an equipment operator. If the waste receipt rate at the Facility exceeds 1,300 tons per day, the Permittee shall provide a minimum total of two compactors at the working face(s); if the waste receipt rate exceeds 2,600 tons per day at the Facility, a minimum of three compactors shall be provided at the working face(s). During peak hours and/or when the waste receipt rate is more than what the spotter(s) at the working face can adequately inspect, the landfill operator shall be responsible for providing additional personnel listed in the Required Personnel Matrix, contained in Attachment H of Document 5, and included herein as Attachment 1. For example, if the Facility is accepting waste in the range between 3,000 and 3,500 tons in a day, there shall be, during the peak times of 6:00 a.m. to 7:00 a.m., a minimum of two trained spotters, two laborers, and three equipment operators, for a minimum total of seven people. The laborers shall spot waste and remove prohibited waste under the direction of a trained spotter stationed at the working face.

13. **Working Faces.** The Facility may have up to two working faces at the same time on the condition that a tipper is being operated at one of the two working faces. At least one trained spotter shall be present at each respective working face and shall observe the waste stream for prohibited waste as it is being deposited and spread. For example, if waste is being accepted and/or spread at both working faces at the same time, there shall be at least one trained spotter at each working face. The spotters shall satisfy the definition provided in F.A.C., Rule 62-701.320(15)(h) and shall satisfy the training requirements of F.A.C., Rule 62-701.320(15) for both initial and continued training. The amount of exposed waste shall be minimized and the working face shall only be wide enough to accommodate vehicles discharging waste and heavy equipment spreading and compacting waste. No working face/daily cell shall exceed 60,000 square feet in size (200 feet long by 300 feet wide).
14. **Wet Weather Area.** During wet weather, when access to the regular working face is limited, the Landfill may accept waste in the Wet Weather Area. Although the location of the Wet Weather Area is based on accessibility during wet weather, it shall be located within the lined footprint disposal area and on an interior slope. The wet weather working face shall not exceed 60,000 square feet in size (200 feet long by 300 feet wide). The Permittee shall grade the area and implement measures to both prevent leachate from ponding within the waste area and to prevent it from running off and potentially mixing with and entering into the surface water management system. Additionally, measures shall be implemented to prevent

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runoff from surrounding areas from running onto the wet weather area. The wet weather area shall be located in area that contains either initial or intermediate cover. The Permittee shall apply either initial cover or a tarp, allowed by Specific Condition 33 of this permit, to the wet weather area at the end of the workday.

15. **Landfill Equipment.** The equipment operator shall first spread the waste as it is unloaded by the hauler and inspected by the spotter(s), and shall then compact the waste. The compactor shall make at least three to five passes over the waste, and initial cover shall be applied at the end of each workday over the entire working face(s). To ensure proper spreading, compaction, waste coverage, and other operational procedures at the landfill, the Permittee shall have sufficient equipment on site that, at a minimum, consists of: three compactors, two dozers, an excavator, a loader, a grader, a water wagon, three trucks, a service truck, and a tractor. Additionally, a tipper may also be provided and utilized for tractor trailers disposing at the landfill. The Permittee shall ensure that sufficient reserve equipment is available on site or that arrangements to obtain additional equipment within 24 hours of equipment breakdown have been made.
16. **Personnel Training.** The Permittee shall ensure that landfill operator(s), spotter(s), and equipment operator(s), employed at the Facility, are properly trained to operate the Landfill and to identify and properly manage any hazardous or prohibited materials which may be inadvertently received at the Facility. Landfill operators and spotters shall be trained in accordance with the F.A.C., Rule 62-701.320(15). The training courses shall be DEP-approved courses applicable to the job position. Spotters shall initially complete 8 hours of training. New employees shall complete the first training course available to them from the date of their employment. Within three years after attending the initial training, and every three years thereafter, spotters shall complete an additional 4 hours of continued training. Operators shall complete 24 hours of initial training and shall pass an examination as part of that training. Within three years after passing the examination, and every three years thereafter, the operators shall complete an additional 16 hours of continued training. Training Certification shall be kept on site and shall be made available to DEP at the Department's request including during a routine site inspection.
17. **Maximum Daily Tonnage.** The Permittee shall not accept more than 5,000 tons of solid waste at the Facility on any working day, unless authorized by DEP or during emergency situations, in which case, special accommodations are to be made to handle the additional volume of solid waste. On days when the waste acceptance rate is in the range between 4,500 and 5,000 tons, in accordance with the Required Personnel Matrix, contained in Attachment H of Document 5, and included herein as Attachment 1, there shall be a minimum of two trained spotters, three laborers, and four equipment operators, for a minimum total of nine people, during the peak times of 6:00 a.m. to 7:00 a.m., and 10:00 a.m. to 3:00 p.m.

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18. **Waste Inspection at the Working Face.** Every load shall be inspected by a spotter for unauthorized waste as it is being unloaded and as it is being spread prior to compaction. The Permittee shall ensure that additional spotters are provided during peak hours and other periods when the waste receipt rate is more than what the spotter(s) at the working face can adequately inspect. All prohibited waste shall be removed to the appropriate designated temporary storage location and removed to a facility authorized to accept it.
19. **Prohibited Wastes and Liquid Restrictions.** Unauthorized waste, including, but not limited to white goods, lead acid batteries, used oil, yard waste, and whole tires, shall not be disposed of at the Landfill. Prohibited waste, inadvertently accepted, shall be removed from the waste stream and temporarily stored in the respective designated areas until removal. At a minimum, unauthorized waste shall be removed from the landfill at the end of the day and transported to the existing concrete storage area adjacent to the Waste Tire Storage and Processing Area. Additionally, liquids shall not be disposed of in a manner that would violate the liquid restrictions of F.A.C., Rule 62-701.300(10).
- a. **White Goods.** Upon discovery, any white goods discovered at the working face shall be removed from the waste stream. They may be placed near the working area within the lined area until removal (by the end of the work day) to the roll-off container designated for white good storage only. At a minimum, they shall be removed from the site on a quarterly basis and more frequently as needed. White goods, which could contain chlorofluorocarbons (CFCs), shall be stored and managed in a manner such that CFCs are not discharged to the environment.
- b. **Batteries.** At no time shall any battery be stored directly on the ground. Batteries shall be placed on pallets a maximum of three layers high and, preferably, covered to prevent spills of acid and lead. Facility personnel shall prevent rainwater from collecting in the storage area to the point where the water is in contact with the batteries. To that end, Facility personnel shall check the water level in the storage area at least once each week and after all heavy rain events. In the event that more water is collecting than evaporating, the facility shall pump out the liquid and manage and treat it as leachate. At a minimum, batteries shall be removed from the site on a quarterly basis and more frequently as needed.
- c. **Used Oil and Used Oil Filters.** The Facility shall store used oil and used oil filters in appropriate containers (e.g., in DOT-approved drums or tanks). Each container shall be labeled with the words "Used Oil" or "Used Oil Filters", respectively. All containers must be maintained in good condition. The storage containers should be protected from weather and shall be stored on a surface that is impermeable to oil.

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Any leak or spill shall be stopped, contained, managed and the container repaired or replaced.

20. **Handling and Removal of Hazardous Waste.** Loads containing hazardous waste shall be rejected and returned directly to the hauler at the gate. The Permittee shall ensure that all hazardous waste separated from the solid waste stream is returned to the generator, owner or hauler, or disposed of in accordance with all applicable federal, state, and local rules and regulations. Facility personnel should handle all hazardous waste, as defined in 261.3(a)(1) of Title 40 Code of Federal Regulations (40 CFR), that is discovered at the facility in accordance the requirements set forth in 40 CFR 261. Additionally, if hazardous waste is inadvertently accepted at the Facility, the Permittee shall follow the procedures outlined in the Section VII.I.2 "Handling hazardous wastes" of Operation Plan of Document 5 and shall follow all local, state, and/or federal regulations in handling the waste. The area where the wastes were deposited shall immediately be cordoned off from public access. If the generator or hauler cannot be identified, the Permittee shall assure the cleanup, transportation, and disposal of the waste to a permitted hazardous waste management facility. Additionally, the Permittee shall delineate in the field the extent of contamination by the hazardous waste materials. The Permittee shall record the incident in logs and shall include the identification of the facility to where the materials were removed. Said records shall be made available to DEP upon request. Within seven days of the incident, the Permittee shall provide a written report to DEP addressing the incident, including information regarding how the waste was and is being managed, and an assessment of the extent of contamination.
21. **Asbestos Disposal.** Asbestos disposal shall be in accordance with F.A.C., Rule 62-701.520(3) and all applicable rules and regulations. Regulated asbestos waste shall only be disposed of in a designated asbestos disposal area while an authorized, qualified landfill employee supervises the activity. Signs shall be posted identifying the designated asbestos disposal area. Each disposal location shall be recorded in accordance with 40 CFR Part 61.151&61.154 and records shall be maintained at the Facility. Asbestos waste shall immediately be covered with either one foot of clean soil or three feet of solid waste (that does not contain asbestos) overlain by a minimum of six inches of daily cover.
22. **Contaminated Soil Handling.** Prior to receipt of contaminated soils at the landfill, the Facility shall require analytical test results from a Florida certified laboratory, including at a minimum, Toxicity Characteristics Leaching Procedure (TCLP) for metals, volatiles, semi-volatiles, pesticides, and total PCBs. A five point composite sample is required for every 500 tons of soil prior to delivery to the Facility. If the analytical results indicate that the material is not hazardous waste, depending upon the contaminant of concern and DEP's approval on a case-by-case basis and if the constituents of concern do not exceed the commercial/industrial exposure levels of F.A.C., Chapter 62-777, then the contaminated soil may be disposed of at

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the landfill or utilized as initial cover on interior side slopes. If the soil has any visible organics or other material that may attract birds or vermin, has an odor, or is saturated, it shall not be utilized as initial cover.

If allowed for use on site as initial cover, approved contaminated soils shall be stored as follows:

- a. The material shall be stockpiled within the liner footprint on top of areas where intermediate cover is in place. The location of the stockpile shall not interfere with the landfill's routine operations;
- b. The material shall be stored in a manner to prevent any runoff from the area to the surface water management system. Stockpiles shall be located so that the minimum distance from their toe of slope to the edge of the landfill slope is no less than the maximum height of the pile. However, if the height of the stockpile is less than 20 feet, the minimum setback distance shall be 20 feet from any and all landfill side slopes. Additionally, silt fencing shall be installed around the base of the stockpile, except for access locations. The surrounding area shall be contoured and/or bermed in such a way as to prevent any and all runoff from the stockpile from entering the surface water management system.
- c. A sign shall be placed at each entrance to the stockpile. Signs shall be placed at the stockpile area indicating the piles identification code as assigned to it in the record logs. The sign shall also state that the area is for the storage of initial cover material that may only be used on interior slopes;
- d. Material for which the facility has not yet obtained DEP's approval for use shall be stored separate from that which has received approval. Signs shall be posted designating and differentiating the area of approved piles from that of unapproved piles;
- e. The Permittee may store unapproved material at the facility for a maximum of 60 days without obtaining approval. If the Permittee has not received approval within the 60 days, the material shall be removed for disposal/treatment at a facility authorized to dispose/treat it; and
- f. The Permittee shall keep records on the material received, and shall establish and maintain an identification code system for identifying the contaminated soil received. This code shall be indicated in the record logs. The source from where contaminated soil is received, the amount received, and its date of receipt shall also be recorded in the



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logs. Furthermore, the Permittee shall record the amount used for cover and the location of the placement in the logs. These records shall be kept on site and made available to DEP upon request.

23. **Slag Handling.** This permit authorizes the use of slag (particularly slag from Ameristeel) for access road stabilization, but only within the liner limits and only if the slag is not hazardous waste. The Permittee shall record in logs the source from where slag is accepted and the location where slag from a specific source is used. Prior to utilizing slag either from other sources or outside the liner limits, the Permittee shall request in writing for a permit determination.
24. **Ash Contaminated Soil Handling.** This permit authorizes the Facility to accept the City of Jacksonville ash contaminated soil. Prior to receipt of this ash contaminated soil at the Landfill, the Permittee shall, at a minimum, require analytical test results from a Florida-certified laboratory, including TCLP for eight RCRA metals. A five point composite sample is required for every 1,000 cubic yards of soil prior to delivery to the Facility. If the analytical results indicate that the material is not hazardous waste, and if the constituents of concern do not exceed the commercial/industrial exposure levels of F.A.C., Chapter 62-777, then the ash contaminated soil may be disposed of at the landfill or utilized as initial cover on interior side slopes. If the soil has any visible organics or other material that may attract birds or vermin, has an odor, or is saturated, it shall not be utilized as initial cover. Also, if allowed for use on site as initial cover, ash contaminated soils shall be stored in the same manner as indicated in the Specific Condition 22 (Contaminated Soil Handling).
25. **Ash Residue.** Ash residue shall not be used as initial cover and shall not be stockpiled on the site. Prior to receipt of ash residue at the Facility, the Permittee shall require analytical test results from the generator. If the material is deemed acceptable for disposal, the ash residue shall be placed at the working face and covered with additional waste or initial cover.
26. **Random Load Check.** Pursuant to F.A.C., Rule 62-701.500(6), the Permittee shall implement a load-checking program to detect and discourage attempts to dispose of unauthorized wastes at the Landfill. The load-checking program shall, at a minimum, consist of the following requirements:
  - a. The landfill operator shall examine at least three random loads of solid waste delivered to the landfill each week. The waste collection vehicle drivers selected by the inspector shall be directed to discharge their loads at a designated location within the landfill. A detailed inspection of the discharged material shall be made for any unauthorized wastes.

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- b. If any unauthorized wastes are found, the Permittee shall contact the generator, hauler, or other party responsible for shipping the waste to the landfill to determine the identity of the waste.
- c. Information and observations resulting from each random inspection shall be recorded in writing and retained at the Trail Ridge Landfill office for at least three years. The recorded information shall, include at a minimum, the following:
  - 1) The date and time of the inspection;
  - 2) The names of the hauling firm and driver of the vehicle;
  - 3) The vehicle license plate number;
  - 4) The source of the waste, as stated by the driver; and
  - 5) Observations made by the inspector during the detailed inspection.

The written record shall be signed by the landfill inspector and shall be made available to DEP upon request, including during routine inspections.

**27. Inspections and Repairs.** The Permittee shall inspect the Facility and repair insufficiencies in accordance with the following:

- a. **Weekly Inspections.** The Permittee shall inspect the Facility on a weekly basis and after all major storm events (e.g., a half-inch rainfall event). Particularly, the Permittee shall inspect the access control structures, the cover system, the perimeter stormwater ditches, the erosion control devices, the stability of the perimeter and access roads, the leachate collection system, the gas collection system, the wet detention pond, the storm water drainage structures and pipes, and the groundwater monitoring wells. The areas with intermediate cover shall be inspected for settlement, ponding, leachate seeps, and vegetative cover integrity and thickness. Also, the Permittee shall prevent the seepage of leachate out the sides of the landfill. If seepage is detected, it shall be repaired within 24 hours. The Permittee shall, at a minimum, utilize the Sample Inspection Checklist, contained in Appendix J of Document 5, and included herein as Attachment 2 for routine inspections. The result of the inspections shall be kept at the Facility's office, and shall be available to DEP upon request, including during routine inspections.
- b. **Daily Inspections.** The landfill operator or his designee shall inspect the Facility for dust, odor, and litter each day the Facility is open for operation.
  - 1) **Litter Control.** The Permittee shall implement a litter policing operation to keep litter from leaving the working area of the landfill. Litter control devices shall be

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installed, as necessary, to prevent litter from leaving the disposal areas. Any and all litter discovered outside the working face shall be collected and appropriately disposed of within 24 hours of discovery in accordance with F.A.C., Rule 62 701.500(7)(i).

2) Road Maintenance. All-weather access roads to the site and disposal areas shall be constructed and maintained. All monitoring devices shall be accessible for monitoring activities.

3) Dust Control: Dust control methods (e.g., water sprays) shall be employed as necessary. Either potable water or water from an on site uncontaminated source may be used in the effort. The water truck shall not be used for any other material (i.e., leachate).

4) Odor Control. The Permittee shall prevent odors from migrating offsite and shall implement odor control strategies. If offsite odors are detected, a monitoring program shall be implemented and, if the odors are confirmed, a revised odor control plan shall be submitted to DEP.

- c. Repairs. Any and all eroded and/or depressed areas of the cover system shall be corrected within three days of the discovery. If the erosion cannot be corrected within three days of the occurrence, the Permittee shall notify DEP and propose a correction schedule. Maintenance or repairs of other insufficiencies shall be conducted within seven days of the discovery of the insufficiency or as otherwise approved by DEP in this permit or by letter. As an exception, repairs of gas monitoring wells shall be completed within 60 days of discovery of damage, or prior to the next monitoring event, whichever occurs first. Furthermore, the Permittee shall perform the following at the stormwater management system: repair any and all breaches of the stormwater system's integrity, remove all trash and debris, and remove sediments from drainage structures and wet detention pond, at a minimum, on an annual basis and more frequently when the conveyance capacity of the system is below design level.
- d. Record Logs. The Permittee shall record in logs the insufficiency and the date of repair as well as a description of the repair. The Permittee shall attach a copy of the repair log to the completed inspection report during which the insufficiency was discovered.

28. **Waste Quantity Reports.** The Permittee shall record the amount, in tons, of waste received at the facility each day and shall also estimate and record the amount of the following types of waste received each day: residential, commercial, treated biomedical waste, water treatment sludge, agricultural, construction and demolition debris, waste tires, industrial, industrial sludge and domestic sludge, and non-hazardous special waste. The waste reports shall be

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compiled monthly and shall be provided to DEP by April 15, July 15, October 15, and January 15 of each year of this permit.

29. **Fill Phasing Plan.** The Facility shall be operated and closed in phases. The sequence of fill operations at the Trail Ridge Landfill shall be in accordance with the "Fill Phasing Plan," reflected on Drawing Sheets 11, 12, and 13 (Fill Phase 8 through Fill Phase 12) of Document 4. Waste filling operations in each phase shall generally proceed from east to west. Currently, Fill Phase 8 is being filled to elevation 210 feet National Geodetic Vertical Datum (NGVD). The eastern half of the landfill shall then be filled to elevation 270 feet NGVD (Fill Phase 9), which leaves access to the top from the southwest corner and northern slopes. The next phase (Fill Phase 10) shall be filled on the eastern portion to elevation 330 feet NGVD. Finally, the western slope and the top shall be filled in the final phases (Fill Phases 11 and 12). The Permittee shall place waste and conduct operations in a manner that prevents the ponding of stormwater in waste, the mixing of leachate with stormwater, and the running off of leachate into the stormwater system.
30. **Design Elevations, Annual Survey, and Slopes.** The maximum design elevation for the Trail Ridge Landfill is elevation 350.6 feet NGVD. This maximum specified elevation shall include the final cover system. A survey of the waste disposal areas shall be conducted and submitted to DEP between March 1 and July 1 of each year of this permit until it is within ten feet of the maximum design elevation, after which the survey shall be conducted quarterly. This *quarterly* information is to be submitted to DEP within 30 days of conducting the survey and shall include the existing elevations in five-foot contour intervals, as well as all points designed for terraces and the location of the toes of the side slopes in reference to the National Geodetic Vertical Datum. During operations, interior and external side slopes of waste material shall not exceed a slope of three-feet horizontal run to one-foot vertical rise. This includes the side slopes of each phase, including those slopes that will have additional waste placed against them in a subsequent phase.
31. **Contingency Operations.** Prior to the imminent threat of a natural disaster (i.e., hurricane or tornado), flooding, and fire, the following procedures (at a minimum) shall be implemented:
- Initial soil cover shall be applied and compacted to all expose solid waste;
  - All landfill equipment shall be fueled and parked near natural wind screens, earthen mounds or tree areas;
  - All lightweight signs and equipment shall be secured; and

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- d. The Facility shall temporarily shut down and cease accepting waste until such time that the emergency is over.
32. **Fire Safety and Hot Loads.** The Permittee shall extinguish a fire, either surface or subsurface that occurs at the Facility, as soon as possible. The area where a fire occurs, including a subsurface fire, shall be cordoned off. The local fire department shall be contacted when needed. Fire hydrant(s) shall be maintained at the Facility. The Permittee shall notify DEP of the fire as soon as possible and within 24 hours of its discovery.
- a. In the event a hot load is received or a fire occurs at the Facility, the Permittee shall follow the procedures addressed in Section VII.B. (Contingency Operation) found in Document 5 to control and extinguish the fire. If a hot load is received, it shall be immediately segregated from the rest of the wastes, removed to an area of the landfill that is isolated from the current active face, spread out, and smothered with soil. The hot loads shall be only discharge onto an area that has a minimum of 12 inches of cover. After the hot load is extinguished and cooled, the waste shall be moved to the active face for disposal or left in place with intermediate cover placed over it.
  - b. In the event a fire occurs within the working face, the following actions shall be implemented:
    - 1) The Facility shall immediately cease disposal operations in the working face area until the fire is extinguished;
    - 2) The landfill operator or his designee shall direct all waste disposal operations to another operational area (i.e., an area with no intermediate or final cover) within the liner footprint and that is a safe distance from the fire. The temporary disposal area shall not be located in an area that may interfere or delay movement of firefighting equipment.
    - 3) For a subsurface fire that occurs outside the working face, the landfill operator or his designee shall cordon off the area and shall assess whether the active working face should be moved until the fire is extinguished. At no time shall the Facility continue to accept waste in a hot/burning area.
33. **Cover Requirements.** In order to minimize the adverse environmental, health, and safety effects, cover shall be applied and maintained, and the following shall be implemented:
- a. Initial cover. Initial cover shall be applied at the end of each workday over the entire working face. Initial cover, consisting of suitable soil or other materials approved by

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DEP as alternative covers, such as a soil/mulch mixture, shredded tires, contaminated soil, or ash contaminated soil, shall be placed at a minimum depth of six inches after placement. For those areas where waste will be deposited within 18 hours, geotextile materials (tarpaulin) such as Fabrene Type TG Product G168 and Nicholon Baycor Style 27600 may be placed as a temporary cover at the end of work day and removed prior to deposition of additional waste. However, these temporary covers shall not be used if they have obvious signs of deterioration. Other equivalent geotextile materials may be utilized upon receiving a written authorization from DEP. For portions of the working face not completely covered by the tarpaulin, six inches of initial cover shall be applied at the end of the working day. During periods when a tarpaulin has been utilized at the working face from Monday through Saturday, the six inches of initial soil cover requirement shall be applied before the close of business on Saturday.

A soil/mulch mixture that consists of no more than 50% mulch by volume may be used as initial cover on condition the mulch is no greater than three inches in any dimension, ~~is~~ is free of plastic, and is covered with mulch-free intermediate cover prior to construction of the final cover system.

Shredded waste tires that are shredded in accordance with F.A.C., Rule 62-711.400(3)(a) (i.e., 70 percent of the waste tire material is cut into pieces of 4 square inches or less and 100 percent of the waste tire material is 32 square inches or less) may be used at the working face on condition the material is restricted to the interior slopes. Shredded material may be stored on on interior slopes of the landfill in the vicinity of the working face prior to use. However, this permit does not authorize the storage or use of the material outside the lined footprint or on exterior sideslopes. The Permittee may also use contaminated and ash contaminated soils as initial cover if it receives written approval to, per the Specific Conditions 22 and 24.

- b. Intermediate cover. Intermediate cover, in addition to the six-inch initial cover, shall be applied and maintained within seven days of cell completion if additional solid waste will not be disposed of within 180 days of cell completion. The intermediate cover may consist of either a 12-inch compacted layer of soil or a 16-inch thick layer of a soil/mulch mixture that consists of no more than 50% mulch by volume. The mulch/soil mixture shall be a homogeneous mixture and the mulch shall be ground into sufficiently small pieces (approx. one inch or less). The soil/mulch mixture shall be removed on exterior slopes and replaced with intermediate cover consisting of a minimum of 12 inches of uncontaminated soil with no mulch prior to construction of the final cover system. The intermediate cover shall be appropriately maintained to prevent erosion and waste exposure.

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- c. **Vegetative Cover.** The Permittee shall establish and maintain a permanent good vegetative cover for those portions of the landfill that have received intermediate and/or final cover. The Permittee shall, at a minimum, observe the cover for stressed vegetation during the weekly facility inspection. If stressed vegetation is observed, the vegetation shall be re-established within 45 days of the date of the discovery. The Permittee shall conduct a mowing schedule of the vegetative cover that ensures the vegetation does not obstruct the operation of the monitoring and control devices, and does not exceed a height of 18 inches.

**34. Landfill Final Closure Requirements.**

- a. At least one year prior to the projected date on which waste will no longer be accepted or when all solid waste disposal units are expected to reach design dimensions, the Permittee shall provide a written notice to DEP with a schedule for cessation of waste acceptance and closure of the landfill. If unforeseen circumstances do not allow the one-year notification, the notice shall be provided as soon as the need to close the Landfill becomes apparent.
- b. At least 120 days prior to the date when wastes will no longer be accepted at the landfill, the Permittee shall advise users of the intent to close the landfill by posting signs at the entrance of the landfill giving the date of closing, the location of alternative disposal facilities, and the name of the person responsible for closing the landfill. These signs shall be maintained throughout the closing period.
- c. At least 90 days before the date when waste will no longer be accepted at the Landfill for disposal, the Permittee shall submit a closure permit application to DEP for review and approval. The application shall be on DEP Form 62-701.900(1), and shall include the required information. Closure of the landfill shall be in accordance with the closure permit that shall be obtained and the supporting information provided with the closure permit application, including time frames for placement of the cover system.
- d. Within ten days prior to the date when wastes will no longer be accepted at the landfill, the Permittee shall publish a notice of the landfill closing in the legal advertising section of a newspaper in general circulation in Duval County, and shall provide proof of publication to DEP within seven days of publication.

**35. Closure Phasing Plan and Final Cover Application.**

- a. **Closure Phasing Plan.** The Permittee shall close the Landfill in phases as areas are filled in accordance with the "Closure Phasing Plan," reflected on Drawing Sheets 14

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and 15 of Document 4. Within 180 days of attaining the design elevations of approximately 210 feet NGVD for Closure Phase 3, 270 feet NGVD for Closure Phase 4, 330 feet NGVD for Closure Phases 5 and 6, and 345 feet for Closure Phase 7, the Permittee shall apply the final cover and complete the closure of the respective areas. The closure shall, at a minimum, include grading the closure areas, installing the final cover system over them, including establishing vegetation, and providing the indicated terraces, downcomer pipes and gas wells. The Permittee shall record when the said design elevations are reached. The Permittee shall conduct on site surveying during operations to ensure the design elevations and grades are met, yet not exceeded, and to ensure that the closure construction is provided at the correct elevations.

- b. Final Cover System Design. Terraces, underdrains, downcomer pipes, and the final cover system shall be constructed in accordance with the details provided on Drawing Sheets 20 and 21 in Document 4.
  - 1) Side Slopes: The final cover system for the side slopes shall consist of the following from bottom to top: a minimum 12-inch intermediate cover layer consisting of only uncontaminated soil material; a minimum 12-inch compacted clay layer with a maximum permeability of  $6.67 \times 10^{-8}$  cm/sec; a minimum of 24 inches of loosely compacted soil layer with the top 6 inches capable of sustaining vegetation; and the vegetative cover.
  - 2) Top Area. The final cover system for the top area shall consist of the following from bottom to top: a minimum 12-inch intermediate cover layer consisting of only uncontaminated soil material; a textured HDPE geomembrane with a minimum average thickness of 40-mil and a maximum water vapor transmission rate of 2.4 g/(m<sup>2</sup> x day); a minimum 12-inch sand layer with a minimum permeability of  $1 \times 10^{-3}$  cm/sec ; and a minimum 12-inch soil layer with the top 6 inches capable of supporting vegetation.
- c. Interface Friction Angles. The Permittee shall test the interface friction angles of the material that will be installed in the final cover system to ensure they meet the design criteria.
- d. Closure Construction Quality Assurance. The Permittee shall provide for quality assurance for each of the phased closure projects. In constructing the side slopes the Permittee shall implement the procedures and conduct the testing proposed in the "Quality Assurance/Quality Control Plan for Side Slope Closure," provided in Attachment K of Document 5. In constructing the top area, the Permittee shall



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implement the procedures and conduct the testing proposed in the "Quality Assurance/Quality Control Plan for Top Area," provided in Appendix L of Document 5. Quality assurance shall be provided by a qualified party independent of the contractor, and the quality assurance individual shall be experienced in landfill construction.

- e. **Certification of Closure Construction Completion.** In accordance with Rule 62-701.400(7)(d), F.A.C., within 30 days of completion of construction, the engineer of record shall certify to DEP that the permitted construction is complete and that it was constructed in substantial conformance with the approved plans, the construction quality assurance (CQA) plan, Chapter 62-701, F.A.C., with EPA Document EPA/600/R-93/182, and with this permit except where minor deviation was necessary. All deviations shall be described in detail and the reasons therefore enumerated. The certification shall, at a minimum, include a completed copy of DEP Form 62-701.900(2), "Certification of Construction Completion of a Solid Waste Management Facility." The certification shall be prepared, signed, and sealed by a Professional Engineer registered in the State of Florida. Also, a CQA report and record drawings, signed and sealed by the professional engineer providing CQA to the project, shall be provided to DEP for review and approval. The submittal shall also include the CQA personnel's daily observation logs. Record Drawings and a final survey report done by a Professional Surveyor, in accordance with Rule 62-701.610(3), F.A.C., shall be provided for each incremental closure as well as for the final closure. The official long-term period will not begin until the final certification of the entire permitted facility is received and approved by DEP and the other requirements of F.A.C., Rule 62-701.610 are met.
- 36. **Use of Closed Landfill Areas.** Pursuant to F.A.C., Rule 62-701.610(7), DEP retains regulatory control over any and all activities that may affect the integrity of the environmental protection measures such as the landfill cover, drainage, liners, monitoring system, and/or leachate, gas and stormwater controls. The Permittee shall consult with DEP prior to conducting any activities at the closed landfill. Additionally, the Permittee shall control access to the Facility.
- 37. **Gas and Odor Monitoring and Remediation.** The Permittee shall monitor gas levels, and shall take measures to prevent explosions and fires, and to minimize off-site odors, lateral migration of gases and damage to vegetation.
  - a. **Gas Monitoring.** Gas monitoring wells/probes (GP) GP-6, GP-7, GP-8, GP-9, and GP-10, gas monitoring locations (GM) GM-01 through GM-05, and any other on site structures, shall be properly monitored on a quarterly basis throughout the duration of this Permit. The gas monitoring wells/probes/locations are shown on Attachment 3. Quarterly gas monitoring shall be conducted by March 31, June 30, September 30 and

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December 31 of each year of this permit. The Permittee shall record these gas monitoring results and shall submit a summary report to DEP within 15 days of the monitoring event, specifically, by April 15, July 15, October 15, and January 15, respectively, of each year of this permit. Combustible gas meters shall be calibrated to methane. The routine gas-monitoring program shall monitor concentrations of combustible gases at ambient monitoring points and in gas monitoring wells. The concentration of combustible gases generated by the landfill shall not exceed 25% of the lower explosive limit (LEL) for combustible gases in structures on- or off-site, excluding gas control or recovery components. Additionally, the LEL for combustible gases shall not be exceeded at or beyond the landfill property boundary or in a compliance gas monitoring well/probe. The Permittee may be subject to more frequent monitoring based upon DEP's review of these data results.

- b. Gas Monitoring Well Maintenance. The integrity of the gas monitoring system shall be maintained.<sup>2</sup>The wells shall be clearly labeled, locked, and provided with protective structures to prevent them from being accidentally damaged during mowing and/or other activities.<sup>3</sup>The gas wells shall be inspected during the weekly inspections.<sup>4</sup>Should a gas monitoring well be found damaged or if it fails to operate for any reason, the Permittee shall notify DEP within seven days of the inspection.<sup>5</sup>Damaged or non-functional gas monitoring wells shall be repaired or replaced within 60 days of the inspection unless the Permittee is notified otherwise in writing by DEP.<sup>6</sup>Should replacement of gas monitoring wells be required, installation shall be in accordance with the QA/QC plan. Material and construction specifications shall conform to the original closure design plan. The installation of the gas wells shall be certified as meeting the requirements of this specific condition by a professional engineer registered in the State of Florida. The engineer's certification along with boring log shall be submitted to DEP within 30 days of completion of installation.
- b. Gas Remediation. If, during a monitoring event, the results show that combustible gas concentrations exceed the lower explosive limit at the property boundary and/or at a compliance gas monitoring well/probe ( i.e., GP-6 through GP-10), or if 25% of the LEL is exceeded within a structure or at a gas monitoring location (i.e., GM-01 through GM-05), the Permittee shall immediately take all necessary steps to ensure protection of human health and shall notify DEP, by telephone, of the violation within 72 hours of the time that the violation is first discovered. Within seven days of detection, the Permittee shall submit a report addressing the nature and extent of the problem. The report shall also include a proposed remedy for approval. The remedy shall be completed within 60 days of detection unless otherwise approved in writing by DEP.

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- d. **Odor Remediation Plan.** The Facility shall be operated and maintained to control objectionable odors in accordance with Rule 62-296.320(2) F.A.C. If gas concentrations cause objectionable odors beyond the landfill property boundary, the Permittee shall implement a routine odor monitoring program to determine the timing and extent of off-site odors and, if the monitoring program confirms the existence of objectionable odors, the Permittee shall submit to DEP for approval an odor remediation plan for the gas releases. The plan shall describe the nature and extent of the problem and the proposed remedy. The remedy shall be initiated within 30 days of approval.
38. **Active Gas Collection System.** The landfill gas collection system consists of gas extraction wells, gas collection pipes, a gas extraction blower, a flare station, and a gas condensate pump station.
- a. **Authorization and Permits.** This permit authorizes Trail Ridge Landfill to construct and operate an active gas collection system. However, the Permittee shall be responsible for obtaining all other necessary permits for the construction and operation of the active gas collection system. All requirements of F.A.C., Chapters 62-296 and 62-701 [the New Source Performance Standards (NSPS) for Municipal Solid Waste Landfills] as well as 40 CFR 60.756 and 40 CFR 60.18, and all applicable DEP regulations, shall apply to the proposed active gas collection system. Installation of the active gas collection system shall be in accordance with the NSPS for Municipal Solid Waste Landfills and shall proceed in phases as sections of the landfill are brought up to final grade and elevations. Portions of the system shall be constructed during each closure construction phase, as shown on Drawing Sheets 14 and 15 (Closure Phasing Plan) of Document 4. The final permanent gas collection system including header pipes shall be installed during the final closure construction phase and shall be constructed as shown on Drawing Sheet 9A of Document 4, and shall be placed into operation. Interim wells may also be installed in areas that have not achieved final grades to allow for immediate gas collection until the permanent wells are installed or until the final grades are reached.
  - b. **Associated Structures.** Upon completion of the active gas collection system, 73 gas extraction wells that extend from a minimum of ten feet from the bottom liner system, shall be installed at the landfill. A unique identification number shall be assigned for each gas extraction well. The location and installation of the gas extraction wells, headers, lateral alignment, and liquid management facilities may vary slightly to accommodate landfill field slope.

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- c. **Construction Certification.** Upon completion of the active gas collection system, the Permittee or authorized representative, shall complete and submit to DEP, DEP Form 62-701.900(2) [Certification of Construction Completion of a Solid Waste Management Facility]. In addition, the professional engineer in charge of construction quality assurance shall certify that the active gas collection system has been constructed in substantial conformance with the plans and project specifications and shall provide a signed and sealed final construction quality assurance report, record documentations (including well construction logs) and record drawings to DEP. At such time, the Permittee shall arrange for DEP representatives to inspect the construction of the active gas collection system in the company of the Permittee, Project Engineer and the landfill operator.
- d. **Gas Condensate Testing.** Since the gas condensate is discharged into the leachate collection system and the combined stream (leachate and condensate) is tested in accordance with the leachate sampling requirement, separate testing of the gas condensate is not required.
- e. **Gas-to-Energy Facility.** This permit authorizes the connection of the landfill's existing gas and leachate collection systems to a Landfill Gas-to-Energy Facility (Energy Facility). The existing landfill gas flare(s) will continue to be utilized as a backup to the Energy Facility. The existing landfill gas collection system is connected to the Energy Facility via a new 24-inch line at a 24-inch header located outside the lined landfill and in between the existing perimeter road and the flare station by means of a "Tee" connection as shown on Drawing C-1a of Document 10. Gas condensate generated by the Energy Facility, shall be collected, drained to a pump station adjacent to the Energy Facility, and discharged into the landfill leachate collection system. The Permittee shall monitor the amount of gas condensate collected at the Energy Facility. A summary shall be included in the regular leachate monitoring report. Additionally, the Facility shall be in compliance with Chapters 62-710 and 62-762, F.A.C. (Used Oil Management and Above Ground Storage Tanks, respectively).
- f. **Construction Requirements.** During the construction of the active gas collection system in areas where final cover has been installed (i.e., on completed side slopes), the Permittee shall ensure that the final cover system is restored back to the original project closure construction specifications and in accordance with the QA/QC plan. These activities shall be documented and shall be submitted as part of the reporting requirements specified in Specific Condition 35.
- g. **System Maintenance.** The Permittee shall inspect the sufficiency of the temporary header pipes and wells, especially in areas of settlement. If discovered to have become

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inoperable and irreparable, the Permittee shall sever the temporary header from the header system and abandon it. A new header pipe shall be installed to connect the gas wells to the vacuum system. If inoperable but repairable, the Permittee shall either repair it or replace it. If the Permittee elects to replace it rather than repair it, the deficient header shall be severed from the header system and abandoned. Temporary wells may be extended vertically, as waste is placed around them. If a temporary well is abandoned, it shall be grouted full, cut at least 18 inches below surface, and covered with a minimum of 18 inches of clean fill.

39. **Leachate Management.** Leachate shall be managed in accordance with F.A.C., Rule 62-701.500(8) and the applicable information submitted in the Documents referenced at the beginning of this Permit, and as amended by this Permit.
- a. **Action Leachate Leakage Rate.** The Permittee shall monitor the amount of leachate collected at the Landfill. The level in and flow of leachate from both the leachate collection and detection sumps shall be monitored by means of a bubbler sensor and a manometer or other equivalent device at the control panel for each pump station. The amount of leachate pumped from each primary leachate collection system (PLCS) and each secondary leachate detection system (LDS) at each sump shall be measured by a flow meter located inside the vault box. The quantity of leachate collected from the PLCS and LDS shall be recorded in gallons on a daily basis, Monday through Friday at a minimum. The action leachate leakage rate for the facility is 4,492 gallons per cell per day. If 4,492 gallons or more is detected in the LDS of a cell on any one day, the Permittee shall notify DEP of the situation within 24 hours by telephone and in a written report within seven days of discovery of the exceedance. The report shall include a description and assessment of the situation, proposed remedial actions and a schedule for commencing and completing the remediation. A cell is defined as the area served by a pump station and is shown on Drawing Sheet 7, provided with Document 4. The smallest cell is 17.7 acres.
  - b. **Backflow Prevention.** To aid in preventing back flow into the system, if the level in a sump exceeds 3.5 feet, (the sump is recessed 3.5 below the base of the landfill and is double lined) an audio and visual alarm shall sound at the control panel for the pump station. The Permittee shall remedy the situation if this level is exceeded and shall follow the procedures and provide the reports required for the exceedance of the action leachate leakage rate.
  - c. **Pump Stations and Flow Meter Maintenance.** The Permittee shall maintain the pump stations and their associated components, including the pumps, and the measuring and monitoring devices, and shall ensure that they are operational. At each pumping

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station, two pumps (one for the collection system and another for the detection system) shall be maintained. Pumps shall be operated in automatic mode and in a manner that will prevent leachate from collecting in a sump beyond its design level, backing up into the system, or discharging to the environment. If a pump is taken out of service or manually shut down, a replacement pump shall be provided in its place. The Permittee shall maintain the visual and audible alarms so that they will alert the Permittee in the event the allowable leachate level in a sump is exceeded. If alerted, the Permittee shall provide a backup pump, record the flow of leachate, investigate the situation and implement remedial actions if warranted. The Permittee shall maintain at least one backup pump onsite and shall install it or another pump equivalent to the design pumps within the same day a pump is discovered to be insufficient and/or taken out of service for maintenance or repairs. There are eight pump stations. They are located on the east side of the landfill and the system is designed so leachate will flow from west to east. The pump stations and the areas they serve are as follows:

Pump station 1A – Phases 1A and II A  
Pump station 1B – Phases 1B and II B  
Pump station 1C – Phases 1C and II C  
Pump station IIIA – Phases III A and IVA  
Pump station IIIB – Phases IIIB and IVB  
Pump station IIIC – Phases IIIC and IV C  
Pump station VA – Phases VA and VC  
Pump station VB – Phases VC and VD

- e. Leachate and Precipitation Comparison. The Permittee shall maintain a recording rain gauge and shall compare the recorded precipitation rates to the leachate generation rates. Leachate generation reports shall be compiled monthly and submitted to DEP quarterly by April 15, July 15, October 15, and January 15 of each year. Leachate generation reports shall include the daily precipitation amounts, the quantities of leachate collected from the PLCS and LDS, and the amount of leachate transported to the wastewater treatment facility. The report shall include a breakdown of the amount of leachate that is collected from the LDS each day, and not only include the totalizing amount of multiple days.
- f. Leachate Treatment. Leachate collected from the landfill shall be stored on site in the six 20,000-gallon leachate storage tanks and transported to the Buckman Wastewater Treatment Facility for treatment and disposal. The owner or operator shall obtain approval from DEP prior to disposing leachate to another wastewater treatment facility.

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- g. Inspections. The overflow prevention system and the exposed exterior of all leachate storage tanks shall be inspected weekly. If the inspection reveals a tank or equipment deficiency, leak, or any other deficiency that could result in failure of the tank to contain the leachate, remedial measures shall be taken immediately to correct the deficiency. Inspection reports shall be maintained and made available to DEP upon request for the lifetime of the liquid storage system.
  - h. Sludge Removal. Sludge or solids taken from the leachate storage tanks, whenever the storage tanks are drained for routine maintenance, inspections or repair, shall have a hazardous waste determination performed for metals and organics in accordance with 40 CFR 262.11 and F.A.C., Rule 62-730.160. The sludge and solids shall be disposed of at a permitted facility, based on the results of the testing performed.
  - i. Maintenance of Leachate Collection System. The Permittee shall perform routine maintenance of the leachate collection and removal system and all associated structures, to ensure proper operation of the system. The Permittee shall, in an appropriate manner, clean out the leachate collection system if and when obvious signs of obstruction(s) are exhibited. The system shall be inspected by video recording at the time of permit renewal. The engineer of record shall review the video recording and shall provide a written evaluation of his/her review and a statement as to the sufficiency of the system. The evaluation shall be provided with the permit renewal application.
  - j. Leachate Recirculation. Leachate recirculation is not authorized under this permit.
40. **Leachate Monitoring.** Leachate shall be sampled prior to September 30 of each year of the permit, and the data submitted in conjunction with the October 15 Report required in Specific Condition 45.k. A composite sample will be taken from the drain valve of each of the five leachate collection system storage tanks (Tanks 1 thru 5) and one sample shall be taken from the drain valve of the leachate detection system storage tank (Tank 6) and shall be analyzed for the following parameters:

Field Parameters

Specific conductivity  
pH  
Dissolved Oxygen  
Colors, sheens

Laboratory Parameters

Total ammonia - N  
Nitrate  
Bicarbonate  
Chlorides  
Iron

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Mercury  
Sodium  
Total Dissolved Solids (TDS)  
Those parameters listed in 40CFR  
Part 258, Appendix II

Sampling and monitoring data shall be collected, analyzed, reported and retained in accordance with Chapter 62-160, F.A.C. and Rule 62-522.600, F.A.C. Any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health (DOH) under Chapter 64E-1, F.A.C., where such certification is required by Rule 62-160.300, F.A.C. The laboratory must be certified for all specific method/analyte combinations that are used to comply with this permit. Biological evaluations shall follow the applicable procedures in DEP-SOP-002/01 (January 2002). All field activities including on site tests and sample collection, whether performed by a laboratory or another organization, must follow all applicable procedures described in DEP-SOP-001/01 (January 2002). Alternate field procedures and laboratory methods may be used if they have been approved according to the requirements of Rules 62-160.220 and 62-160.330, F.A.C. Detection levels shall be at or below groundwater standards and/or criteria.

Leachate sampling results shall be prepared and submitted to DEP in accordance with the "Guidance for Submitting Electronic Water Quality Data to the Solid Waste Program" document, provided as Attachment 4 in this permit, and as part of the semi-annual ground and surface water monitoring Electronic Reporting in accordance with Specific Condition 45.k. of this permit.

Concerning leachate sampling and analysis, if a contaminant listed in 40 CFR 261.24 exceeds the regulatory level listed therein, the Permittee shall follow the procedures addressed in F.A.C. Rule 62-701.510(6)(c) 2, which includes notifying DEP of the results in writing and conducting monthly sampling and analysis, commencing within 30 days of the date the of the sampling event in which the exceedance is first detected. The Permittee shall provide DEP with the monthly analysis. Should the composite sample taken from the five leachate collection storage tanks be determined hazardous, leachate stored in all five tanks shall then be treated as hazardous, unless it is determined through additional leachate sampling and testing, that a tank or tanks do not contain the hazardous leachate. Leachate that is determined hazardous shall be managed in accordance with F.A.C. Rule 62-730. The written notification required per said rule shall be provided as soon as possible and shall indicate how the leachate was managed.

Please note that this permit does not authorize onsite treatment or pretreatment of leachate.



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41. **Power generators.** For power outages that extend for a period of 24 hours or more, the Permittee shall, unless onsite generators are available, obtain emergency generators within 48 hours of the time the power outage first occurs. In the interim and for shorter power outages, onsite equipment may be utilized to power the leachate sump pumps.
42. **Waste Tire Processing Facility.**
- a. **Authorization.** This permit authorizes Trail Ridge Landfill to operate a waste tire processing facility on a parcel of land south of the non-contract drop off area and east of the operations building. Storage of waste tires and the operation of the waste tire processing facility shall be in accordance with F.A.C., Rule 62-711.
  - b. **Storage Limits.** The maximum number of whole waste tires, processed waste tires, and residuals shall be limited to 60 times the daily through-put of the processing equipment. In addition, the number of whole waste tires shall be limited to 30 times the daily through-put of the processing equipment. Since the daily through-put of the processing equipment is estimated to be 3.33 tons per day, the maximum storage of whole tires shall not exceed 100 tons (i.e., approximately 10,000 tires). Each storage pile shall be no wider than 50 feet, with an area no greater than 10,000 square feet, and a height no greater than 15 feet. The limits of the waste tire storage area shall be appropriately marked to ensure that all waste tires are stored within these limits. Tires may only be stored on the paved impervious surface of the waste tire storage area. The Permittee shall also maintain the existing curb to contain, within the paved tire storage area, any potential liquid residue from a tire fire. Any liquid tire fire residual shall be managed in accordance with all applicable local, state and/or federal regulations. Additionally, a 50-foot wide fire lane shall be maintained around the perimeters of each waste tire pile. Access to the fire lane for emergency vehicles must be unobstructed at all times.
  - c. **Processed Waste Tires.** At least 75 percent of the waste tires and processed tires that are delivered to or stored at the facility at the beginning of each calendar year shall be processed and disposed of on site or transported offsite to a permitted facility for recycling or disposal. The temperature of above-ground piles of processed tires over ten feet high shall be monitored and temperature control measures shall be instituted so the pile temperatures do not exceed 300 degrees Fahrenheit. Temperature monitoring and controls are not required for processed tires disposed of in the landfill. If waste tires are to be disposed of in the landfill, the tires must be cut into at least eight substantially equal pieces. Processed tires disposed of in the landfill, which do not

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meet the size requirement of F.A.C., Rule 62-711.400(3)(a) for initial cover, must receive initial cover as defined in F.A.C., Rule 62-701.200.

- d. Annual Fire Safety Survey. The Permittee shall submit, by December 31 of each year, an annual fire safety survey report for the waste tire processing facility.
  - e. Waste Tire Processing Facility Quarterly Report. The Permittee shall, by the 20th of the month following the close of each calendar quarter, provide the information required pursuant to F.A.C., Rule 62-711(530)(5) including a completed DEP Form 62-711.900(21).
  - f. Additional Recording Requirements. The Permittee shall record and maintain for three years, the information required in F.A.C., 62-711.530(4)(a thru c) and F.A.C., 62-711.530(5)(a through g) and shall keep the records available to DEP upon request.
  - g. Closing. The Permittee shall follow the plan for closing waste tire storage area provided in Appendix I of Document 5, and shall also provide receipts from the facilities to where the waste tires and any residuals are sent during closure. All tires and residuals shall be removed within 30 days of the last waste receipt date, which shall be recorded in logs and the logs provided to the DEP upon request.
43. **Air Construction Permit.** A landfill for which construction or modification is subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C. must make application to the Bureau of Air Regulation, Mail Station 5505, 2600 Blair Stone Road, Tallahassee, Florida, 32399-2400, for an air construction permit and must obtain such permit prior to beginning any construction or modification.
44. **Air Permit Requirement.** The Permittee shall comply with the requirements of 40 CFR 60, Subparts WWW, as adopted by reference at Rule 62-204.800, F.A.C. The Permittee shall submit to the Air Program, Northeast District Office, Florida Department of Environmental Protection, 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7590, any amended design capacity report pursuant to 40 CFR 60.757(a)(3).
45. **Groundwater Monitoring Requirements.** In accordance with F.A.C. Chapters 62-701 and 62-520, the Permittee shall install, place into operation, and maintain a water quality monitoring system.
- a. The groundwater monitoring system shall be designed, constructed, operated and maintained in accordance with F.A.C. Chapters 62-3 and 62-520, and with the

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Groundwater Monitoring Plan with Additional Responses, as modified by the conditions specified in this permit.

- b. Pursuant to F.A.C. Rule 62-520.465, the zone of discharge shall be limited horizontally to 100 feet from the waste management area; or to the property boundary; or to the shortest distance between the location of the compliance monitoring wells and the waste management area; whichever is less. This zone of discharge shall remain in effect unless it becomes necessary to seek a change in accordance with F.A.C. Rule 62-520.470.
- c. The Permittee shall ensure that the water quality standards for Class G-II ground water will not be exceeded at the boundary of the zone of discharge pursuant to F.A.C. Rule 62-520.420
- d. The Permittee shall ensure that the minimum criteria for ground water specified in F.A.C. Rule 62-520.400 shall not be violated within the zone of discharge.
- e. Approximate monitoring well locations and designations shall be in accordance with Attachment 5. In conjunction with the construction of any new wells, a surveyed drawing shall be submitted showing the location of all monitoring wells (active and abandoned) that will be horizontally located by metes and bounds or equivalent surveying techniques. The surveyed drawing shall include the monitor well identification number, as well as location and elevation of all permanent benchmark(s) and/or corner monument markers(s) at the site. The survey shall be conducted by a Florida Registered Surveyor. All wells are to be clearly labeled and easily visible at all times. In accordance with F.A.C. Chapter 62-701, monitor wells designed to monitor phases III C, IV C, VA, VB, VC, and VD shall be designated detection wells and be placed no greater than 50 feet from the limits of the waste. Monitoring of all active cells shall be by wells located within 50 feet of waste or as close to that point as physically practicable.

Compliance Wells MWB-14(S)c, (I)c, (D)c; MWB-23(S)c; MWB-24(S)c; MWB-25(S)c, (I)c, (D)c; and MWB-26(S)c shall be maintained, but will not be utilized unless required for assessment monitoring.

Background Well Clusters:

MWB-2(S)b, 2(I)b  
MWB-3(S)b, 3(I)b  
MWB-31(D)b

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Phase I

Compliance Well Clusters:	MWB-7(S)c, 7(1)c, 7(D)c
	MWB-11(S)c, 11(1)(R)c
	MWB-12(S)c, 12(1)c, 12(D)c
*	MWB-14(S)c, 14(I)c, 14(D)c
	MWB-19(S)c, 19(I)c, 19(D)c
	MWB-20(S)c
	MWB-21(S)c
	MWB-22(S)c

Phase II

Compliance Well Clusters:	MWB-17(S)c, 17(I)c, 17(D)c
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Phase III and Phase IV

Compliance Well Clusters:	MWB-13(S)c, 13(I)c
*	MWB-23(S)c
Detection Well Clusters:	MWB-33(S)d
	MWB-34(S)d, 34(I)d, 34(D)d

Phase V

Compliance Well Clusters: *	MWB-24(S)c
*	MWB-25(S)c, 25(I)c, 25(D)c
*	MWB-26(S)c
	MWB-27(S)c, 27(I)c, 27(D)c
	MWB-29(S)c, 29(I)c, 29(D)c
Detection Well Clusters:	MWB-32(S)d, 32(I)d, 32(D)d

\* Indicates compliance monitoring well or well cluster replaced by detection wells. No longer on regular sampling schedule, but to be maintained for potential future sampling (if needed).

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f. All groundwater monitoring wells shall be designated and constructed in accordance with F.A.C. Chapter 62-520 and ASTM Standard D-5092. All shallow surficial monitoring wells shall be constructed such that a portion of the screened interval shall extend into the vadose zone during all portions of the year and the screened interval shall be of sufficient length that a minimum of approximately five feet of screen shall extend into the water column throughout the year. Upon completion of construction of any new groundwater monitoring wells, the following information shall be submitted to the Department within fifteen days for all groundwater monitoring wells (permanent and temporary):

Well identification	Driller's Lithologic Log
Latitude/Longitude	Total well depth
Aquifer monitored	Casing diameter
Screen type and slot size	Casing type and length
Elevation at land surface	Depth to groundwater

A well completion report will be provided for all wells. A surveyed drawing shall be submitted showing the location of all monitoring wells (active and abandoned) that will be horizontally located by metes and bounds or equivalent surveying techniques. The surveyed drawing shall include the monitor well identification number as well as location and elevation of all permanent bench mark(s) and/or corner monument marker(s) at the site. The survey shall be conducted by a Florida Registered Surveyor. Well construction at and above ground surface shall be designed to secure and protect the groundwater monitoring wells.

At each well location, construction shall include a concrete surface pad and above ground vertical protective casing with a locking top. The casing and top shall be required to be in good working order, intact and locked. A minimum of two protective bollards shall be placed at the edges of concrete surface pad. Bollards shall be at a minimum of the approximate height of the protective casing and constructed of materials capable of providing some protection of the protective casing from accidental collision with machinery.

- g. In the event any monitoring well becomes damaged or inoperable, the Permittee shall notify the Department within 72 hours and a detailed written report shall follow within seven days. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent a recurrence. All monitoring well design and replacement shall be approved by DEP prior to installation.

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- h. Within 60 days of issuance of this permit, all piezometers and wells not a part of the approved groundwater monitoring plan are to be plugged and abandoned in accordance with St. Johns River Water Management District Rule 40C3.531. The Permittee shall submit a written report to DEP providing verification of the well plugging and abandonment. A written request for exemption to the plugging and abandonment of a well must be submitted to DEP for approval.
- i. Groundwater levels shall be recorded no less than 48 hours after well installation and prior to evacuating the well for sample collection. Measurements, referenced to National Geodetic Vertical Datum ( N.G.V.D.), shall include groundwater surface elevation, the top of well casing, and land surface at each site at a precision of plus or minus 0.01 feet. This information shall be submitted to DEP with the semi-annual groundwater analytical results. A map must be constructed depicting locations of wells and piezometers and corresponding water level measurements.
- j. All sample collection and water quality analysis shall be in conformance with F.A.C., Chapter 62-160 and Rule 62-520.600. Sampling and monitoring data shall be collected, analyzed, reported and retained in accordance with Chapter 62-160, F.A.C. Laboratory detection limits for arsenic must be 10 µg/l or less.

Any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health (DOH) under Chapter 64E-1, F.A.C., where such certification is required by Rule 62-160.300, F.A.C. The laboratory must be certified for all specific method/analyte combinations that are used to comply with this permit.

Biological evaluations shall follow the applicable procedures in DEP-SOP-001/01 (December 2008).

All field activities including on-site tests and sample collection, whether performed by a laboratory or another organization, must follow all applicable procedures described in DEP-SOP-001/01 (December 2008). Alternate field procedures and laboratory methods may be used if they have been approved according to the requirements of Rules 62-160.220 and 62-160.400, F.A.C.

- k. Groundwater sampling results, required water quality monitoring reports and all ground water, surface water and leachate analytical results shall be submitted electronically. Water quality monitoring reports shall be submitted in Adobe pdf format. The water quality data Electronic Data Deliverable (EDD) shall be provided to

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DEP in an electronic format consistent with requirements for importing the data into DEP's databases. Water quality monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall include the following:

1. Cover letter;
2. Summary of exceedances and recommendations;
3. Ground water contour maps;
4. Chain of custody forms;
5. Water levels, water elevation table;
6. Ground Water Monitoring Report Certification, using the appropriate DEP form;
7. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01); and,
8. Laboratory and Field EDDs and error logs, as applicable.

All submittals in response to this specific condition shall be sent both to:

Florida Department of Environmental Protection  
Northeast District Office  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

And to:

Florida Department of Environmental Protection  
Solid Waste Section  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida, 32399-2400

Electronic Water Quality Data shall be prepared and submitted in accordance with the "Guidance for Submitting Electronic Water Quality Data to the Solid Waste Program" document, provided as Attachment 4 in this permit.

1. All groundwater background detection monitoring wells and active compliance monitoring wells shall be sampled and analyzed semi-annually for the parameters listed in Attachment 6. However, additional samples, wells, and parameters may be required based upon subsequent analyses. Semi-annual samples will be collected for all wells for each phase of monitoring prior to March 30 and September 30 of each year.

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A report of laboratory data will be submitted to DEP for each sampling period no later than April 15 and October 15 of each year, respectively.

- m. Sixty days prior to the renewal of this permit, the Permittee shall sample and analyze all monitoring wells for the parameters listed on Attachment 7. This sampling shall be in lieu of the corresponding semi-annual sampling event.
- n. The Permittee shall prepare and submit to DEP groundwater surface contour maps, prepared from data collected from all permitted wells on site, for the initial sampling event and each semi-annual sampling event. A shallow surficial map, utilizing data from the shallow wells; an intermediate surficial map, utilizing the data from the intermediate wells; and a deep surficial map, utilizing data from the deep wells will be prepared and submitted to DEP, with the groundwater elevation data. This information shall be submitted in conjunction with the initial and semi-annual analytical data.
- o. If groundwater monitoring results in detection wells are significantly above background well water quality, or are above DEP water quality standards or criteria specified in Chapter 62-520, F.A.C., the Permittee may resample the wells within 30 days after the sampling data is received, to confirm the data. Should the Permittee choose not to resample, DEP will consider the water quality analysis as representative of current ground water conditions at the facility. If the data is confirmed, or if the Permittee chooses not to resample, the Permittee shall notify DEP in writing within 14 days of this finding. The Permittee shall then implement Evaluation Monitoring in accordance with Rule 62-701.510(7), F.A.C., and the time frames therein.

If, at any time, groundwater standards and/or criteria are exceeded in any compliance well, the Permittee shall commence a site assessment within 60 days after a discharge is discovered. For purposes of a site assessment, commence means the Permittee has employed or contracted with a professional engineer or geologist to design, implement, and complete the requirements of Rule 62-780.600, F.A.C., and has given the professional the authority to proceed with the required work. The Permittee shall conduct the site assessment in accordance with the requirements of Rule 62-780, F.A.C. and the time frames specified in Table A of that Rule or with the Cleanup Agreement Document, if applicable. The Permittee shall submit two copies of the Site Assessment Report to DEP within 270 days for review.

- p. Compliance with groundwater standards and/or criteria shall be determined by analysis of unfiltered or settled groundwater samples.



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- q. F.A.C., Rule 62-520.600(3)(k) requires that the groundwater monitoring program must inventory and map surface waters within one mile of the landfill. If there are any modifications to the surface waters within one mile of the landfill, the Permittee shall, upon request, submit to DEP a revised inventory and map of surface waters within 90 days.
  - r. F.A.C., Rule 62-520.600(3)(g) requires an inventory and map of all wells within a one mile radius of the landfill, including the owners' names and addresses, well locations, well specifications (well depth, diameter, screened interval, capacity, etc.) and utilization. If there are any changes to the well inventory, the Permittee shall, upon request, revise the well inventory and shall submit the revised inventory to DEP within 90 days.
  - s. The Permittee shall monitor the data obtained from the leachate, ground, and surface water monitoring system, and the site-specific conditions. A report shall be submitted every two years to DEP by the Permittee in accordance with F.A.C. Chapter 62-701. In addition, it shall include a graphic plot of analytical laboratory data over time for the leachate and surface water sampling parameters. Evaluation of the adequacy of the monitoring frequency and analyses shall include the surface water and leachate monitoring programs. The Permittee shall have this report prepared and sealed by a qualified groundwater professional and submit this information by September 30, 2011 and September 30, 2013.
46. **Surface Water Monitoring.** In accordance with F.A.C., Rule 62-701.510(6), surface water monitoring is required on a semi-annual basis in conjunction with the groundwater monitoring schedule. The following Surface Water Monitoring Program shall sampled and analyzed in conjunction with the sampling program required for the groundwater monitoring system.
- a. The Surface Water Monitoring System shall be designed and operated in accordance with plans submitted to DEP, as modified by the conditions specified in this permit. If the wet detention pond is discharging, the sampling location shall be at the point of discharge. If discharge is not occurring at the time of sampling, surface water samples shall be collected from the approximate center of the wet detention pond. Samples shall be collected in conjunction with the groundwater monitoring sampling.
  - b. The surface water monitoring sites shall be located as follows:

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<u>SITE NUMBER</u>	<u>LOCATION</u>
SW-1	As indicated in Attachment 8
SW-2	As indicated in Attachment 8
SW-3	As indicated in Attachment 8 (at the discharge, if actively discharging or at the center of the pond if no discharge)

- c. All surface water sampling sites shall be sampled and analyzed on a semi-annual basis for the parameters listed in Attachment 9. However, additional sampling sites and parameters may be required based upon subsequent analyses. The results shall be reported in accordance with Specific Condition 45.k. and submitted with the groundwater monitoring reports.
  - d. Additional sampling sites and parameters may be required based on the analysis.
  - e. The Permittee shall ensure that the surface water discharged shall not exceed quality standards for drinking water or surface water. If at any time water standards and/or criteria are exceeded, the Permittee shall immediately notify DEP by telephone whenever a serious problem occurs at this Facility. Within seven days of telephone notification, the Permittee shall submit to DEP a written report explaining the extent of the problem, its cause, and what actions have been or will be taken to correct the problem.
47. **Stormwater Management System.** The stormwater management system consists of: swales, terraces, downcomers, perimeter drainage ditches and culverts, inlet and outlet structures, and a wet detention pond. The operation and maintenance of the stormwater management system shall be as set forth in the plans, specifications, and approved by this permit.
- a. **Installation.** Installation of terraces, inlets, temporary and permanent downcomers, outlets, stormwater management ditches, culverts, and discharge structures shall coincide with the construction of individual phases in accordance with the Filling Sequence Plan. Dimensions and slopes of these components of the stormwater management system shall be in accordance with the design drawings provided with Document 4.
  - b. **Operational Maintenance.** The following operational maintenance activities shall be performed on all permitted systems on a regular basis or as needed:
    - 1. Removal of trash and debris from inlet grates and culvert inlets;

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**SPECIFIC CONDITIONS:**

2. Inspection of inlets and outlets. Culverts and pipe inlets and outlets shall be de-silted at least quarterly and as necessary to prevent blockage;
  3. Removal of sediments when the storage volume or conveyance capacity of the system is below design level and/or when the system is rendered ineffective on account of clogging/sedimentation of the pond bottom;
  4. Stabilization and restoration of eroded areas;
  5. Mowing and removal of grass clippings; and
  6. Aeration, tilling, or replacement of topsoil as needed to restore percolation capability of the system.
- c. Inspections. The Permittee shall inspect drainage structures, including terraces, inlets, downcomers, outlets, ditches, stormwater management culverts and structures on a weekly basis and after all major storm events (e.g., a half-inch rainfall event). Ditches and terraces shall be maintained free of debris that could impede the free flow of water through the conveyance. Any and all breaches of the system's integrity shall be immediately repaired. Any and all non-functioning pipes shall be repaired within 14 days. Whenever erosion is detected, measures shall be taken to stabilize, restore, and protect affected areas within three days.
- d. If the stormwater management system is not functioning as designed and permitted, operational maintenance must be performed immediately to restore the system. If operational maintenance measures are insufficient to enable the system to meet the design standards, the Permittee must either replace the system or construct an alternative design. In such a case, the Permittee must submit a permit modification application within sixty days of the date the system was determined to be design deficient.
- e. Best Management Practices. The Permittee is responsible for the selection, implementation, and operation of all erosion and sediment controls on-site and to prevent violations of water quality standards in Chapters 62-302, 62-4, 40C-4, 40C-40, 40C-41, and 40C-42, F.A.C., and Chapters 373 and 403, F.S. The Permittee is encouraged to use the appropriate Best Management Practices described in the Florida Land Development Manual: A guide to Sound Land and Water Management (DER, 1988). All wetland areas or water bodies which are outside of the specific limits of

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-017-SO  
Date of Issue: DRAFT  
Expiration Date: DRAFT

**SPECIFIC CONDITIONS:**

construction authorized by this permit must be protected from erosion, siltation, scouring, or excess turbidity and dewatering. Turbidity barriers shall be installed at all locations where the possibility of transferring suspended solids into the receiving water body exists due to the proposed work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. The Permittee shall be responsible for the removal of the barriers.

48. **Irrigation System for Wetlands.** After treatment in the wet detention pond, stormwater is discharged through a perforated spreader pipe around the perimeter of the stormwater management basin to existing wetlands. This wetland irrigation system shall, at a minimum, be inspected by the Permittee once per quarter.
- a. **Operation and Maintenance.** The Permittee shall continue to maintain and operate the irrigation system for wetlands adjacent to the pond berm that was installed to mitigate any potential effects to the natural hydroperiod of the adjacent wetland as a result of hydrologic drawdown caused by the stormwater pond. The irrigation system, which extends along the southern and eastern most edges of the pond berm and along a portion of the northern edge of the pond berm, is shown in Attachment 10.
  - b. **Erosion Control.** The Permittee shall take all appropriate measures to ensure that the wetland irrigation system (i.e., the stormwater discharge system) does not cause erosion into any wetland area during construction and operation.
  - c. **Reporting.** On an annual basis, the wet detention and the wetland irrigation systems, including the pumping system that is used to facilitate stormwater treatment and irrigation of the adjacent wetlands, shall be inspected by a registered Florida Professional Engineer. This inspection shall demonstrate that the stormwater management system is operating as designed and the discharge rate for the wet detention pond is within the allowable permitted range of between 2.11cfs (947 GPM) and 2.50 cfs (1,122 GPM). A signed and sealed report certifying that the systems are functioning as designed shall be submitted to the DEP's Stormwater Engineer at 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7590 by December 31 of each year.

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or

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Expiration Date: DRAFT

**GENERAL CONDITIONS:**

403.859 through 403.861, FS. The permittee is placed on notice that DEP will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by DEP.
3. As provided in subsections 403.987(6) and 403.722(5), FS, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other DEP permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from Department.
6. The permittee shall properly operate and maintain the Facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-017-SO  
Date of Issue: DRAFT  
Expiration Date: DRAFT

**GENERAL CONDITIONS:**

- (a) Have access to and copy any records that must be kept under conditions of the permit;
- (b) Inspect the Facility, Equipment, practices, or operations regulated or required under this permit; and
- (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide Department with the following information:
  - (a) A description of and cause of noncompliance; and
  - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by Department for penalties or for revocation of this permit.
- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to Department may be used by Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- 10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
- 11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300 F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by Department.

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**GENERAL CONDITIONS:**

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
  - ( ) Determination of Best Available Control Technology (BACT).
  - ( ) Determination of Prevention of Significant Deterioration (PSD).
  - (x) Certification of compliance with state Water Quality Standards (Section 401, PL 92-500).
  - ( ) Compliance with New Source Performance Standards.
14. The permittee shall comply with the following:
  - (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by Department.
  - (b) The permittee shall hold at the Facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - (c) Records of monitoring information shall include:
    1. The date, exact place, and time of sampling or measurements;
    2. The person responsible for performing the sampling or measurements;
    3. The dates analyses were performed;
    4. The person responsible for performing the analyses;
    5. The analytical techniques or methods used; and
    6. The results of such analyses.

PERMITTEE:  
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**GENERAL CONDITIONS:**

15. When requested by Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to Department, such facts or information shall be corrected promptly.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

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Michael J. Fitzsimmons  
Waste Program Administrator



**TRAIL RIDGE LANDFILL  
REQUIRED PERSONNEL MATRIX**

Time	3000 Tons / Day			3500 Tons / Day			4000 Tons / Day		
	Spotters Required	Laborers Required	Equip. Op. Required	Spotters Required	Laborers Required	Equip. Op. Required	Spotters Required	Laborers Required	Equip. Op. Required
6:00 - 7:00 AM	2.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0	3.0
7:00 - 10:00 AM	1.0	2.0	2.0	1.0	2.0	2.0	1.0	2.0	2.0
10:00 AM - 3:00 PM	1.0	2.0	2.0	2.0	2.0	3.0	2.0	3.0	3.0
3:00 - 5:00 PM	1.0	1.0	1.0	1.0	1.0	2.0	1.0	2.0	2.0
5:00 - 7:00 PM	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Time	4500 Tons / Day			5000 Tons / Day		
	Spotters Required	Laborers Required	Equip. Op. Required	Spotters Required	Laborers Required	Equip. Op. Required
6:00 - 7:00 AM	2.0	3.0	4.0	2.0	3.0	4.0
7:00 - 10:00 AM	1.0	2.0	2.0	2.0	2.0	3.0
10:00 AM - 3:00 PM	2.0	3.0	3.0	2.0	3.0	4.0
3:00 - 5:00 PM	1.0	2.0	2.0	1.0	2.0	2.0
5:00 - 7:00 PM	1.0	1.0	1.0	1.0	1.0	1.0

Trail Ridge Landfill  
Landfill Inspection Checklist

Name of Inspector: _____ Date of Inspection: _____			
If answered yes, attach additional comment pages or site plan as needed.			
Section A: Fencing and Security	Yes	No	Not Applicable
1. Damage to fences, gates, or locks	_____	_____	_____
2. Gates unlocked/locks missing	_____	_____	_____
3. Signs of forced entry detected	_____	_____	_____
Section B: Access Roads	Yes	No	Not Applicable
1. Access and site roads in poor condition	_____	_____	_____
Section C: Final Cover System	Yes	No	Not Applicable
1. Settlement of cover	_____	_____	_____
2. Evidence of erosion, cracks, gullies	_____	_____	_____
3. Holes or damage to cover	_____	_____	_____
4. Patches of dead grass on cover	_____	_____	_____
5. Evidence of leachate seeps	_____	_____	_____
6. Impacts due to settlement	_____	_____	_____
7. Ponding of water in terraces	_____	_____	_____
Section D: Gas Management System	Yes	No	Not Applicable
1. Visible damage to system components	_____	_____	_____
2. Excessive release of odors	_____	_____	_____
3. Gas flare operating	_____	_____	_____

# Trail Ridge Landfill Landfill Inspection Checklist

Section E: Stormwater Management System		Yes	No	Not Applicable
1.	Ponding of water	_____	_____	_____
2.	Excessive silting due to lack of vegetation	_____	_____	_____
3.	Inlets repair required	_____	_____	_____
4.	Perimeter ditch or swale	_____	_____	_____
5.	Retention pond damage	_____	_____	_____
6.	Downcomer pipe repair required	_____	_____	_____
7.	Leachate breakouts affecting water quality	_____	_____	_____
8.	Ditches/Inlets/Culverts need cleaning	_____	_____	_____

Section F: Monitoring Devices		Yes	No	Not Applicable
1.	Damage to groundwater monitoring wells	_____	_____	_____
2.	Damage to gas wells	_____	_____	_____
3.	Locks missing	_____	_____	_____
4.	Damage to gas monitor probes	_____	_____	_____

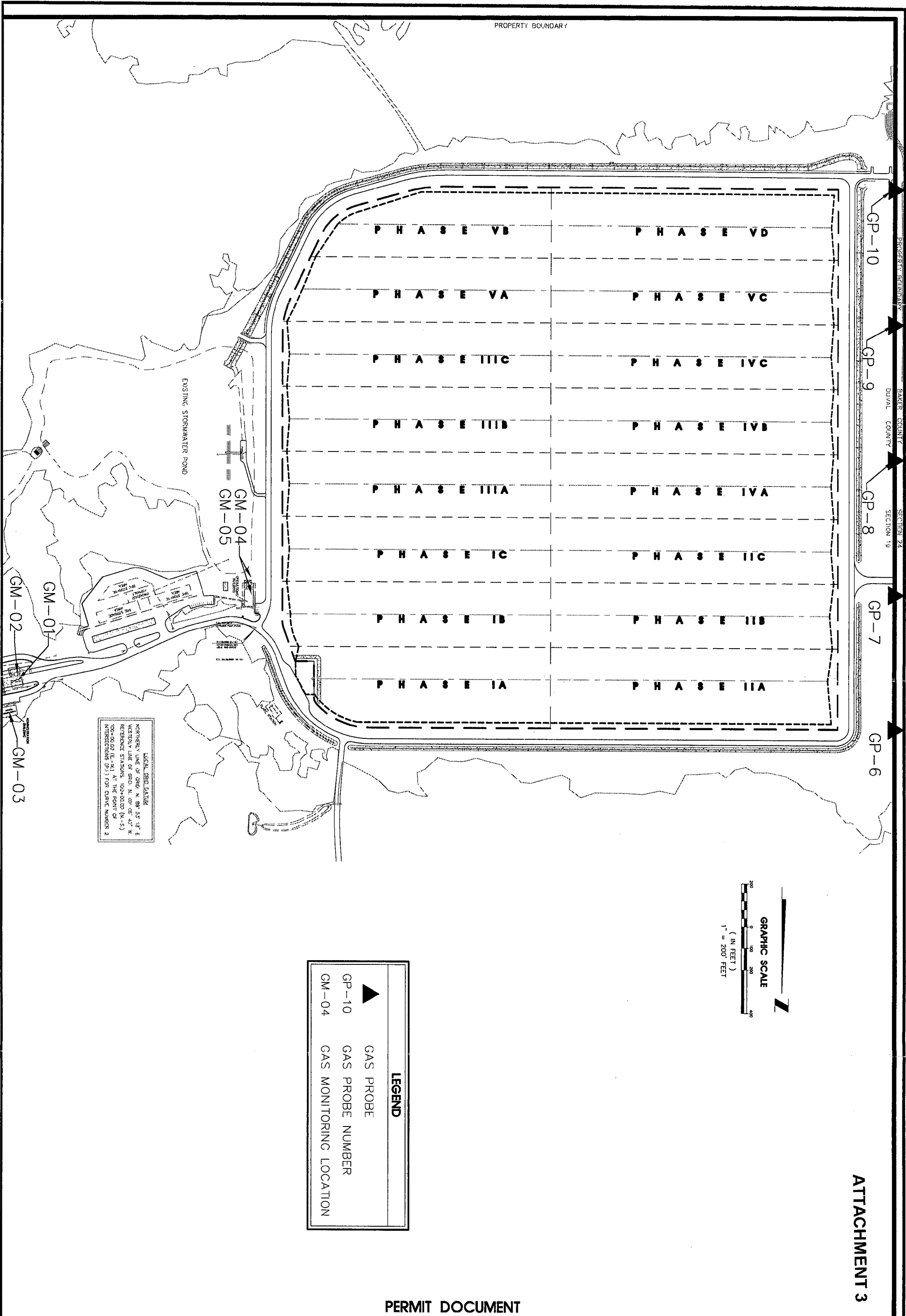
Section G: Leachate Collection and Storage		Yes	No	Not Applicable
1.	Leachate pumps operating	_____	_____	_____
2.	Leachate flow meters operating	_____	_____	_____
3.	Leachate control panels operating	_____	_____	_____
4.	Control panel alarms operating	_____	_____	_____
5.	Leachate storage tanks leaking	_____	_____	_____
6.	Leachate containment area leaking	_____	_____	_____

Section H: Active Area		Yes	No	Not Applicable
1.	Graded to provide drainage	_____	_____	_____
2.	Leachate/stormwater ponding	_____	_____	_____
3.	Any hot spots?	_____	_____	_____
4.	Erosion of intermediate and/or initial cover	_____	_____	_____

Signature of Inspector: _____		Date: _____
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**GUIDANCE FOR SUBMITTING  
ELECTRONIC WATER QUALITY DATA  
TO THE SOLID WASTE PROGRAM**

**April 7, 2009**

**I. General Information**

Water quality monitoring reports and all ground water, surface water and leachate analytical results for the Solid Waste Program shall be submitted to the Department electronically on compact disc or flash drive media readable by Microsoft Windows. Water quality monitoring reports shall be submitted in Adobe pdf format. Unless otherwise approved by the Department, the water quality Electronic Data Deliverable (EDD) shall be compatible with software called Florida DEP Automated Data Processing Tool (ADaPT). ADaPT<sup>1</sup> has been developed to evaluate and upload water quality data into the Department's Water Assurance Compliance System (WACS) database. A copy of this ADaPT software with installation instructions and EDD specifications can be downloaded from the following website address:  
**<ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT/>**

**II. Monitoring Report**

The monitoring report shall be submitted in Adobe pdf format, with the EDD as an attachment, and shall include the following items:

1. Cover letter ;
2. Summary of exceedances and recommendations;
3. Ground water contour maps;
4. Chain of custody forms;
5. Water levels, water elevation table;
6. Ground Water Monitoring Report Certification, using the appropriate Department form;
7. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01); and,
8. Laboratory and Field EDDs that are compatible with ADaPT software and the ADaPT error log(s).

The monitoring report shall be sent both to:

Florida Department of Environmental Protection  
[District name] District Office  
[address]  
[city], Florida [zip code]

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<sup>1</sup> The Department recognizes that many laboratories have been using software called Validator to prepare the water quality data EDDS for solid waste facilities. In the event ADaPT is not available or a laboratory preparing the EDDS has not yet transitioned to ADaPT, then Validator may continue to be used to prepare the EDDS for submittal to the Department. However, the laboratory should transition to ADaPT as soon as possible since at some date in the future Validator will no longer be supported and become obsolete.

And to:

Florida Department of Environmental Protection  
Solid Waste Section  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida, 32399-2400

### III. ADaPT EDDs

The ADaPT EDD consists of two electronic deliverables: (1) a Laboratory EDD, identified as swldd.txt; and (2) a Field EDD identified as swfdd.txt. The format for the Laboratory EDD and the Field EDD are described below. In addition, as explained in Section V, a copy of the Laboratory EDD shall be prepared in Adobe Portable Document Format (PDF) file by the laboratory.

The Laboratory EDD shall be submitted in a comma separated (.csv format) text file which can be produced through Excel. The Laboratory EDD file name format shall be: WACS Facility I.D. underscore Begin Sampling Date (yyyymm) underscore swldd.txt. The period at the end would not be included. For example, with WACS Facility I.D.# 12345 where sampling started in November and ended in December of 2008, the Laboratory EDD file name should be: 12345\_200811\_swldd.txt

The Field EDD shall be submitted in the same comma separated (.csv format) text file as the Laboratory EDD. The Field EDD file name format shall be: WACS Facility I.D. underscore Begin Sampling Date (yyyymm) underscore swfdd.txt. Again, the period at the end is not included. For example, with WACS Facility I.D.# 12345 where sampling started in November and ended in December of 2008, the file name should be: 12345\_200811\_swfdd.txt

For confirmation sampling, add the term \_conf to the EDD filenames as follows:  
12345\_200811\_conf\_swldd.txt for the Laboratory EDD or  
12345\_200811\_conf\_swfdd.txt for the Field EDD.

For data that is resubmitted, add \_#, where # is the number of data submittals (greater than 1). For example, if the data was resubmitted for the first time, and was thus submittal number 2, then the EDD filenames would be as follows:  
12345\_200811\_2\_swldd.txt for the Laboratory EDD and 12345\_200811\_2\_swfdd.txt for the Field EDD.

Finally, taking this to an extreme, if conformation data was resubmitted for say the 10<sup>th</sup> time, then the EDD filenames would be: 12345\_200811\_conf\_10\_swldd.txt for the Laboratory EDD or 12345\_200811\_conf\_10\_swfdd.txt for the Field EDD.

### IV. Signatures Required

Water quality monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological

investigations. A sealed signature page may be submitted with the report provided that the seal is legible (gray the embossed seal and scan). Otherwise, you must separately mail the sealed and signed page.

#### V. Process Required

Three steps are generally required. First, two copies of the Laboratory EDD, one in comma separated text format and one as a PDF file, must be submitted by the laboratory. A digitally "signed" PDF copy<sup>2</sup> by the laboratory serves to maintain the integrity of the Laboratory EDD. In order to validate the QA/QC aspects of the Laboratory EDD, the permittee shall ensure the laboratory processes the Laboratory EDD through ADaPT using both their laboratory specific library and the Department's Solid Waste Master library and corrects all critical errors and explains all non-critical errors prior to submittal. Second, the appropriate entity (laboratory, consultant, or permittee) shall process the Field EDD through ADaPT using the Department's Solid Waste Master library and correct all critical errors and explain all non-critical errors prior to submittal. Finally, as a completeness check, the permittee or consultant shall process both the Laboratory EDD and the Field EDD through ADaPT and confirm a successful export to disk prior to submitting the Laboratory EDD, Field EDD and ADaPT error log(s) to the Department.

#### VI. Resources

In the event help is needed to prepare these EDDs, you can contact the Department's Solid Waste staff at the appropriate District office. The information for the Department's District offices is as follows:

Northwest District Office  
160 Governmental Center, Room 308  
Pensacola, Florida 32502  
(850) 595-8300

Northeast District Office  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256  
(904) 807-3300

Southwest District Office  
13051 N. Telecom Parkway  
Temple Terrace, Florida 33637  
(813) 632-7600

Central District Office  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803  
(407) 894-7555

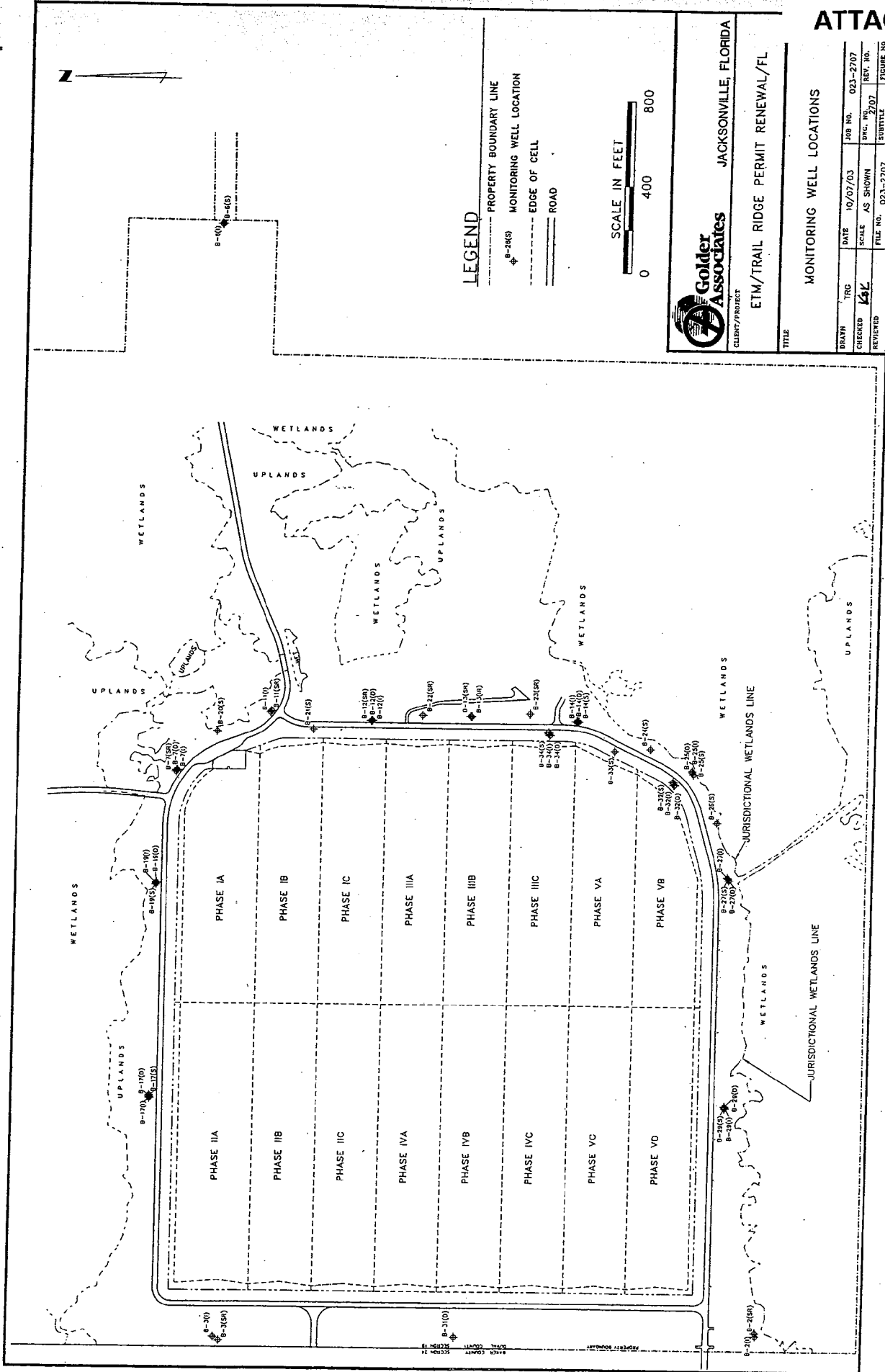
South District Office  
P.O. Box 2549  
2295 Victoria Avenue, Suite 364  
Fort Myers, Florida 33901  
(239) 332-6975

Southeast District Office  
400 North Congress Avenue, Suite 200  
West Palm Beach, Florida 33401  
(561) 681-6600

You can also receive help by contacting Mr. Clark Moore (850-245-8739) or Mr. Lee Martin (850-245-8734) in Tallahassee.

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<sup>2</sup> This would be a read only file.





## SEMI-ANNUAL PARAMETERS

## Field Parameters

Static water level in wells  
Specific conductivity  
pH  
Dissolved oxygen  
Turbidity  
Temperature  
Colors and sheens (by observation)

## Laboratory Parameters

Total ammonia - N  
Chlorides  
Iron  
Mercury  
Nitrate  
Sodium  
Total Dissolved Solids  
(TDS)  
Those parameters listed in  
40 CFR Part 258 Appendix I

BACKGROUND PARAMETERS

Field Parameters

Static water level in wells  
Specific conductivity  
pH  
Dissolved oxygen  
Turbidity  
Temperature  
Colors and sheens (by observation)

Laboratory Parameters

Total ammonia - N  
Chlorides  
Iron  
Mercury  
Nitrate  
Sodium  
Total Dissolved Solids  
(TDS)  
Those parameters listed in  
40 CFR Part 258 Appendices  
I and II

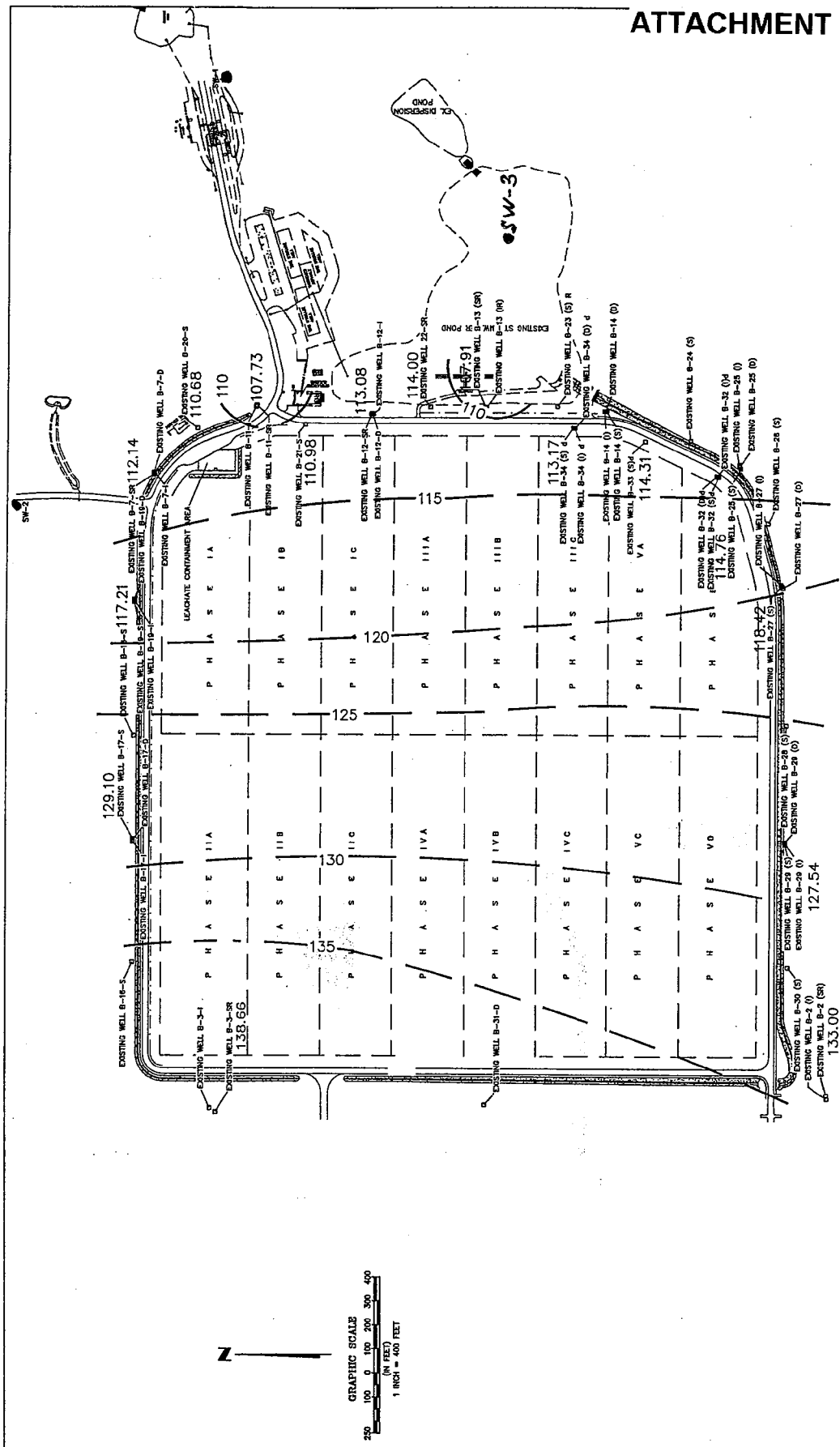
DATE	SEPT 07
FIGURE	FIG 1

## GROUNDWATER CONTOUR MAP SHALLOW WELLS TRAIL RIDGE LANDFILL

MEASUREMENT DATE: JULY 11, 2007



**HDR**  
 HDR ENGINEERING, INC.  
 200 W. JACKSON ST.  
 SUITE 800  
 JACKSONVILLE, FL 32202  
 (904) 596-8900



## SURFACE WATER PARAMETERS

## Field Parameters

Specific conductivity  
pH  
Dissolved oxygen  
Turbidity  
Temperature  
Colors and sheens (by observation)

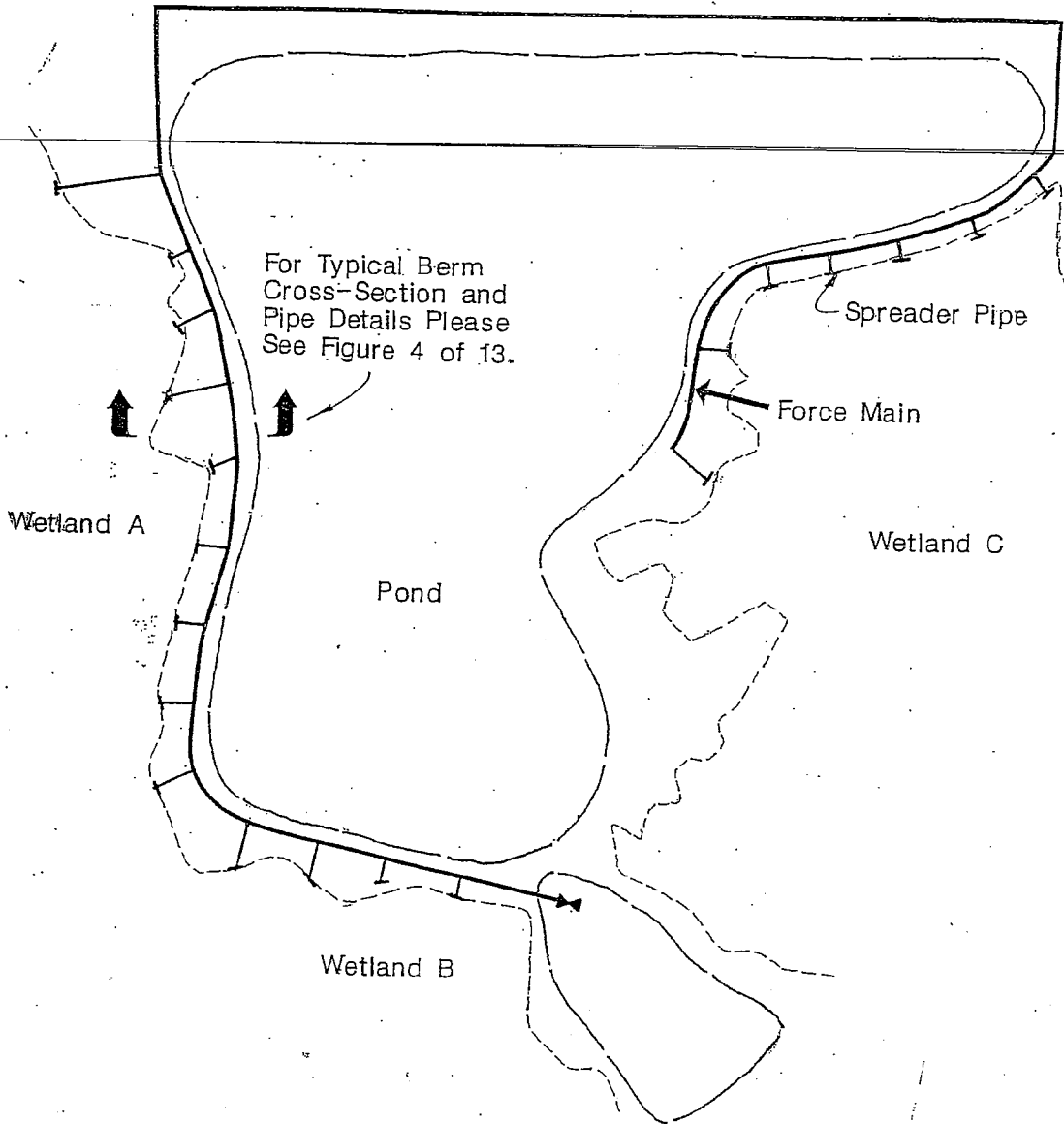
## Laboratory Parameters

Unionized ammonia N  
Total hardness  
Biochemical oxygen  
demand (BOD5)  
Copper  
Iron  
Mercury  
Nitrate  
Zinc  
Total dissolved solids  
(TDS)  
Total organic carbon  
(TOC)  
Fecal Coliform  
Total phosphates  
Chlorophyll A  
Total Nitrogen  
Chemical oxygen demand  
(COD)  
Total suspended solids  
(TSS)  
Those parameters listed in  
40 CFR Part 258 Appendix I



ENVIRONMENTAL  
SERVICES, INC.

Trail Ridge Landfill  
Jacksonville, Florida



Detailed Plan View of  
Wetland Irrigation System

Project No.	EJ02131.00
Date	September 2002
Figure No.	3

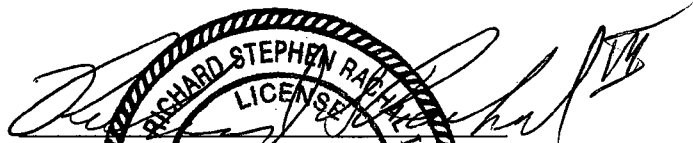
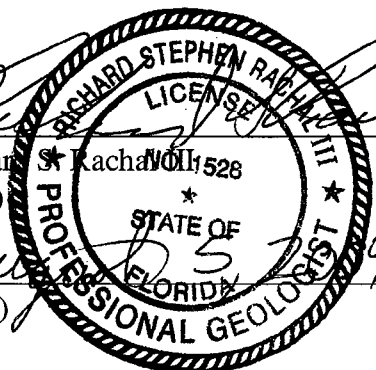


## CERTIFICATION

PROJECT NAME: Trail Ridge Class I Landfill, Active  
Operations Permit Renewal - Groundwater Monitoring Program  
Permit Number: 0013493-017-SO  
Renewal of Permit 0013493-010-SC

COUNTY: Duval County

I HEREBY CERTIFY that based upon the previous permit, the above-referenced files provide reasonable assurance of compliance with the applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Title 62. However, since the application was for the renewal of an existing permit, I have not evaluated and I do not certify construction aspects of the proposal submitted in previous applications or those aspects outside my area of expertise (including, but not limited to, the engineering, hydrologic and structural features).

  
Richard S. Kachal  
(Seal)  
  
August 25, 2009  
(Date)

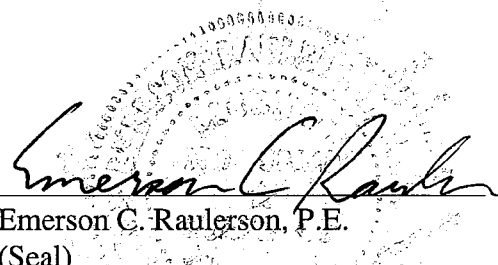
CERTIFICATION

PROJECT NAME: Trail Ridge Landfill, Inc.  
Renewal of Permit No. 0013493-010-SC by  
**Issuance of Permit No. 0013493-017-SO**

COUNTY: Duval County

FILE Nos.: 0013493-017 & 0126289-002

I HEREBY CERTIFY that based upon the previous permit, the above-referenced files provide reasonable assurance of compliance with the applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Title 62. However, since the application was for the renewal of an existing permit, I have not evaluated and I do not certify closure construction aspects of the proposal submitted in previous applications or those aspects outside my area of expertise (including, but not limited to, the electrical, mechanical, structural, hydrological, and geological features).

  
Emerson C. Raulerson, P.E.  
(Seal)

08/05/09  
(Date)

**ID:****311791**This ID is read by a scanner.  
Do not mark.**DWM Preindex Coversheet**

ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

**Submittal Data**Catalog **Solid Waste**Profile **Permitting\_Authorization**County **DUVAL**Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**Document Date **08-05-2009**Received Date **08-05-2009**Document\_Type **PERMIT APPLICATION RELATED**

Contractor ID

Facility Type **CLASS I LANDFILL (100)**Document Subject **PERMIT - INTENT TO ISSUE**☐ Double Sided☐ Oversized Pages

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parker\_l

Date 8/6/09

DEP002844





**England-Thims & Miller, Inc.**

14775 Old St. Augustine Road ▪ Jacksonville, Florida 32258  
tel 904.642.8990 ▪ fax 904.646.9485 ▪ www.etminc.com

DEP  
NORTHEAST DISTRICT  
RECEIVED

2009 AUG 21 PM 3:21

August 20, 2009

**PRINCIPALS**

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

**EMERITUS**

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

Mr. Emerson Raulerson, P.E.  
Florida Department of Environmental Protection  
Northeast District Office  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256-7590

**RE: Trail Ridge Landfill  
Class I Landfill and Waste Tire Processing Facility  
DEP File Numbers 0013493-017 & 0126289-002  
ETM No. 07-044-02**

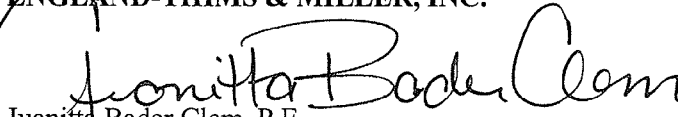
Dear Mr. Raulerson:

Pursuant to Section 403.815, F.S. and on behalf of Trail Ridge Landfill, Inc., please find herewith the Affidavit of Publication from The Florida Times-Union for the Notice of Proposed Agency Action for the referenced project. As you can see the Notice was published on August 14, 2009.

If you have any questions or require additional information, please feel free to contact me at 265-3181.

Sincerely,

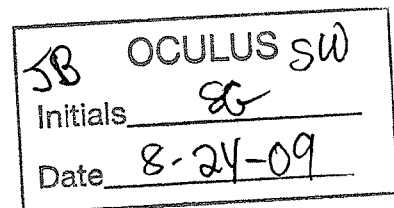
**ENGLAND-THIMS & MILLER, INC.**

  
Juanitta Bader Clem, P.E.

Vice President

Attachment

cc: Greg Mathes, Trail Ridge Landfill, Inc.  
Chris Pearson, City of Jacksonville  
Brian Dolihite, Trail Ridge Landfill, Inc.  
Mark Triplett, Trail Ridge Landfill, Inc.  
Scott Lockwood, P.E., ETM



THE FLORIDA TIMES-UNION  
Jacksonville, FL  
Affidavit of Publication

Florida Times-Union

ENGLAND THIMS & MILLER INC  
14775 OLD SAINT AUGUSTINE RD  
JACKSONVILLE FL 32258

Reference: 1000244812  
Ad Number: C13007318

State of Florida  
County of Duval

Before the undersigned authority personally appeared Sharon Walker who on oath says he/she is a Legal Advertising Representative of The Florida Times-Union, a daily newspaper published in Duval County, Florida; that the attached copy of advertisement is a legal ad published in The Florida Times-Union. Affiant further says that The Florida Times-Union is a newspaper published in Duval County, Florida, and that the newspaper has heretofore been continuously published in Duval County, Florida each day, has been entered as second class mail matter at the post office in Jacksonville, in Duval County, Florida for a period of one year preceding the first publication of the attached copy of advertisement; and affiant further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission, or refund for the purpose of securing this advertisement for publication in said newspaper.


PUBLISHED ON: 08/14/2009

FILED ON: 08/14/2009

Name: Sharon Walker Title: Legal Advertising Representative  
In testimony whereof, I have hereunto set my hand and affixed my official Seal, the day and year aforesaid.

NOTARY:

*Sally W. Willis*

 Sally W. Willis  
Commission # DD482207  
Expires January 30, 2010  
Bonded Troy Fair Insurance Inc 200-335-7019

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
NOTICE OF PROPOSED AGENCY ACTION

The Department of Environmental Protection gives Notice if its Intent to Issue a permit to the Trail Ride Landfill, Inc. to renew its Class I Landfill and Waste Tire Processing Facility Operation Renewal Permit. The main entrance to the Trail Ridge Landfill is located at 5110 Highway 301, in western Duval County, Florida.

The Department's file on this matter is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at 7825 Baymeadows Way, Suite 200B, Jacksonville, Florida.

A person whose substantial interests are affected by the above proposed agency action may petition for an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, Mariory Stoneman Douglas Building, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within 14 days of publication of this notice or receipt of the written notice, whichever occurs first. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following:

- a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Numbers 0013493-017 & 0126289-002, and the county in which the project is proposed;
- b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;
- e) A statement of facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and
- g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

In accordance with Section 120.573, F.S., the Department advises that mediation is not available in this case as an alternative to filing a petition for an administrative determination.

DEP002846

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Do not mark.**DWM Preindex Coversheet**

ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

**Submittal Data**Catalog **Solid Waste**Profile **Permitting\_Authorization**County **DUVAL**Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**Document Date **08-20-2009**Received Date **08-21-2009**Document\_Type **PERMIT APPLICATION RELATED**

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Facility Type **CLASS I LANDFILL (100)**Document Subject **PROOF OF PUBLICATION**☐ Double Sided☐ Oversized Pages

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

parker\_l

Date 8/24/09

DEP002847



# Florida Department of Environmental Protection

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

331966

File 9/16 MB  
Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

September 16, 2009

In the Matter of an  
Application for Permit by:

DEP File Numbers 0013493-017 & 0126289-002  
Solid Waste - Duval County

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

MB	OCULUS
Initials	SC
Date	9-21-09

## NOTICE OF PERMIT

Enclosed is the State of Florida Department of Environmental Protection (Department) Permit Number 0013493-017-SO to renew the Class I Landfill and the Waste Tire Processing Facility Operations Permit pursuant to Chapter 403, Florida Statutes (F.S.) and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-25, 62-520, 62-522, 62-550, 62-701, and 62-711. Please note, this final version includes the following minor revisions that correct printing and oversight errors: On Pages 1 and 3, Chapters 62-25 (Regulation of Stormwater Discharge) and 62-711 (Waste Tire Rule) were added to the list of referenced F.A.C. Chapters. At the top of Page 2, the remaining portion of the last paragraph from Page 1 (which appears to have been cut off during the printing process) was added. On Page 5, Specific Condition 10 was revised to require site visitors to check in at the "administration office" instead of at the "entry inspection station". On page 8, Specific Condition 19 was revised to specify that waste tires shall be stored at the Waste Tire Storage and Processing Area instead of at the concrete storage area. On Pages 30 and 31, the asterisks in Specific Condition 45.e that indicate compliance wells replaced by detection wells were realigned for clarity.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, MS #35, Tallahassee, Florida, 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

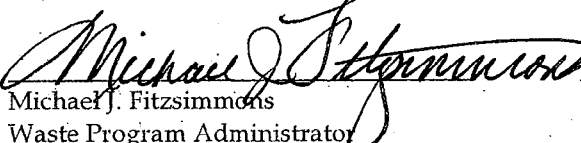
Executed in Jacksonville, Florida.

"FILED, on this date, pursuant to Section 120.52,  
F.S., with the designated Department Clerk,  
receipt of which is hereby acknowledged."

Daren Benzfield 9/16/09  
Clerk Date

MJF:ECR:mb:cs

## STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

  
Michael J. Fitzsimmons  
Waste Program Administrator  
Northeast District  
7825 Baymeadows Way, Suite B-200  
Jacksonville, Florida 32256-7590

Copies furnished to: Juanitta Bader Clem, P.E. - England, Thims, and Miller, Inc.  
Chris Pearson, City of Jacksonville

## CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT was mailed before the close of business on September 16, 2009.

"More Protection, Less Process"  
[www.dep.state.fl.us](http://www.dep.state.fl.us)

DEP002848



# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

## PERMITTEE:

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-017-SO  
Date of Issue: September 16, 2009  
Expiration Date: September 16, 2014  
Lat/Long: 30°13'27"/82°02'40"  
Section/Town/Range: 18, 19, 20, 21/3S/23E  
Project: Trail Ridge Landfill - Class I and  
Waste Tire Processing Facility Operations  
Renewal of Permit 0013493-010-SC

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.) and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-25, 62-520, 62-522, 62-550, 62-701, and 62-711. The above-named Permittee is hereby authorized to perform the work and maintain the Facility shown on the application and approved drawing(s) plans, and other documents attached hereto or on file with the Florida Department of Environmental Protection (DEP or Department) and made a part hereof, and specifically described as follows:

To continue to operate, maintain, and monitor the Trail Ridge Landfill (Facility), with a total disposal area of approximately 144 acres. The Class I Landfill (Landfill) was constructed in 16 phases (IA, IB, IC, IIA, IIB, IIC, IIIA, IIIB, IVA, IVB, IIIC, IVC, VA, VB, VC and VD) and each phase is authorized to accept waste.

Each phase of the Landfill has a double liner system consisting of, from top to bottom: a 24-inch protective soil layer with a minimum hydraulic conductivity of  $1 \times 10^{-3}$  cm/sec; a 16-oz. geotextile fabric; a 20-mil drainage layer (geonet); a 60-mil high density polyethylene (HDPE) primary liner; a geosynthetic clay liner (GCL/bentonite mat); a 6-oz. geotextile fabric; a 20-mil geonet; a 60-mil HDPE secondary liner; and a 6-inch compacted subgrade with a maximum saturated hydraulic conductivity of  $1 \times 10^{-5}$  cm/sec. However, in Phases IA, IB, IC, IIA, IIB, and IIC, the GCL is located below the secondary liner as opposed to below the primary liner. The 60-mil HDPE primary and secondary liners are required to have a maximum water vapor transmission rate of  $0.24 \text{ g/m}^2 \times \text{day}$ .

The Landfill will be operated and closed in phases.

This permit also authorizes the Permittee to continue to operate an active gas collection system and to continue operating a waste tire processing facility, as well as to stay connected to the adjacent Landfill Gas-to-Energy Facility.

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

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system was permitted and constructed under Solid Waste/MSSW Permits Numbers: SC16-184444, SC16-184445, MS16-184447, and subsequent modification MS16-296691.

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

This permit includes DEP File Numbers 0013493-017 and 0126289-002, and is issued in accordance with the solid waste permit renewal application received on October 15, 2008, and with supplemental information received October 22, November 12, 2008, January 20, May 7, May 26, July 21, 2009, and which are further specified below:

Document 1 - Permit Documents for Trail Ridge Landfill - Third Renewal, Permit Application and Drawing Sheets 1 through 23, and 9A, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P. E., dated and received October 15, 2008;

Document 2 - Trail Ridge Landfill - Permit Renewal, Revised Drawing Sheet 4, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P. E., dated and received October 22, 2008;

Document 3 - Trail Ridge Landfill - Permit Renewal, Leachate collection system jet cleaning and video inspection report, prepared by England-Thims and Miller, Inc., signed by Scott Jordan Lockwood, P.E., dated November 10, 2008, and received November 12, 2008;

Document 4 - Permit Documents for Trail Ridge Landfill - Third Renewal, Response to DEP Request for Additional Information and revised Drawing Sheets 1 through 23, and 9A, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P. E., dated and received January 20, 2009;

Document 5 - Permit Documents for Trail Ridge Landfill - Third Renewal, Second Response to DEP Request for Additional Information, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P. E., dated May 6, 2009 and received May 7, 2009;

Document 6 - Trail Ridge Landfill - Signature Page for the Financial Assurance Cost Estimate Form, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P. E., dated and received May 26, 2009; and

Document 7 - Additional information related to a clarification of acreage of the total disposal area, prepared by England-Thims and Miller, Inc., submitted by Juanitta Bader Clem, P. E., dated and received July 21, 2009.

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The following documents are incorporated by reference:

Document 8 - List of previously provided documents from July 1990 to September 2008, referenced on the application form, submitted in Document 5, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P. E., dated May 6, 2009 and received May 7, 2009.

NOTE: The above-listed documents are referenced in this permit by document numbers.

### **SPECIFIC CONDITIONS:**

1. **Permit Requirements.** The Trail Ridge Landfill (Facility) shall be operated, maintained, and monitored in accordance with this permit and all applicable requirements of F.A.C. Chapters 62-4, 62-25, 62-520, 62-522, 62-550, 62-701, and 62-711, and with the application, plans, specifications, and supporting information submitted in support of DEP File Numbers 0013493-017 and 0126289-002.
2. **Document Storage.** A copy of the DEP-approved engineering drawings, plans, reports, operation and contingency plans, and all revisions and supporting information, as well as a copy of this permit, shall be kept at the Facility office at all times for reference and inspections.
3. **Applicable Permits.** Receipt of any permits from DEP does not relieve the Permittee from obtaining other federal, state, and local permits required by law, including those of the St. Johns River Water Management District or from other Sections within DEP.
4. **Other Regulatory Requirements.** If any other regulatory agency or DEP division should require revisions or modifications to the permitted project, the Permittee shall notify the Solid Waste Section of DEP's Northeast District (District) of the revisions and/or modifications so a determination can be made as to whether or not a permit modification is required.
5. **Permit Renewal.** Pursuant to Rule 62-4.090, F.A.C., no later than July 18, 2014, the Permittee shall apply for a renewal of the Permit on forms and in a manner prescribed by DEP, in order to assure conformance with all applicable DEP Rules. Permits shall be renewed at least every five years as required by Rule 62-701.320(10)(b) F.A.C.
6. **Transfer of Permit.** DEP must be notified, in writing, using DEP Form Number 62-701.900(8) within 30 days of any sale, conveyance, or other transfer of the Facility, or within 30 days of any transfer of ownership or control of the real property at which the Facility is located, or within 30 days of a name change. All transfers of ownership or transfers of a permit are subject to the requirements of F.A.C., Chapter 62-4. In addition, permit transfers shall comply with the requirements of Rule 62-701.320(11), F.A.C.

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**SPECIFIC CONDITIONS:**

7. **Emergency Notification.** The Permittee shall immediately notify DEP by telephone whenever a serious problem occurs at the Facility, including a fire or another emergency that poses an unanticipated threat to the public health or the environment. During regular business hours, notification shall be made to the District at 904.807.3300. If an emergency occurs outside regular business hours, the Permittee shall telephone the 24-hour emergency phone number 800.320.0519. This latter number is to be used for emergencies only. Within seven days of emergencies, the Permittee shall submit a written report to DEP explaining the extent of the problem, its cause, and what actions have been or will be taken to correct it, and prevent its recurrence.
8. **Provisions of Potable Water Source.** The Permittee shall provide a temporary source of potable water within seven days and a permanent safe drinking water supply within 180 days of discovery of contamination to replace any and all potable water wells that are shown by chemical and hydrogeologic analysis to be contaminated by the Facility. This water shall meet all drinking water standards set forth in F.A.C., Chapter 62-550, and shall be provided at the Permittee's expense.
9. **Financial Assurance and Cost Estimates.**
  - a. **Financial Assurance.** The Owner and/or Operator of the Facility shall maintain, in good standing, the financial assurance mechanisms established to demonstrate proof of financial assurance. Support documentation and evidence of inflation adjustment increases shall be submitted within the time frames specified in Rule 62-701.630, F.A.C. All submittals in response to this specific condition shall be sent to:

Florida Department of Environmental Protection  
Financial Coordinator - Solid Waste Section  
Twin Towers Office Building  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida 32399-2400
  - b. **Annual Cost Estimates Adjustment.** The Owner and/or Operator of the Facility shall annually adjust the closure and long-term cost estimates for inflation using DEP Form 62-701.900(28). Adjustments shall be made in accordance with Rule 62-701.630(4) F.A.C., and 40 CFR Parts 264.142(a) and 264.144(a). An owner or operator using a letter of credit, guarantee bond, performance bond, financial test, corporate guarantee, trust fund or insurance shall submit the adjusted cost estimate between January 1 and March 1. An owner or operator using an escrow account shall submit the adjusted estimate between July 1 and September 1. Closure costs shall include an annual



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**SPECIFIC CONDITIONS:**

estimate of the remaining life and capacity in cubic yards of the existing constructed landfills, and the remaining capacity and site life of other permitted areas not yet constructed. All submittals in response to this specific condition shall be sent to:

Florida Department of Environmental Protection  
Solid Waste Section Supervisor  
7825 Baymeadows Way, Suite 200 B  
Jacksonville, Florida 32256-7590

with a copy to:

Florida Department of Environmental Protection  
Financial Coordinator - Solid Waste Section  
Twin Towers Office Building  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida, 32399-2400

10. **Access Control.** A chain link fence and gates shall be maintained to control access to the site to prevent unauthorized dumping. All gates shall be locked during non-operating hours, and all site visitors shall be required to check in at the administrative office before entering the site.
11. **Hours of Operation.** The normal operating hours for the Facility shall be from 6:00 A.M. to 7:00 P.M., Monday through Friday, and from 5:00 A.M. to 2:00 P.M. on Saturdays. Depending on the waste receipt rate, these normal operating hours may be extended from 5:00 A.M. to 10:00 P.M. The hours of operation shall be posted on the Facility's front gate. During emergency situations (e.g., after a hurricane) the Facility may operate beyond these specified hours; however, DEP shall be notified, at the first available opportunity, of the extended hours.

If landfill operations commence before daylight or extends beyond non-daylight hours, the Permittee shall provide adequate illumination at the site (especially at the working face and unloading areas) to ensure proper waste screening. All working/dumping areas and equipment operation areas shall be illuminated with a minimum intensity of three foot-candles. The Facility's lighting equipment shall be kept and maintained at the site. The Permittee shall be responsible for ensuring that adequate staff to cover all shifts and equipment is available at the Facility to maintain proper landfill operations.

12. **Operating Personnel.** As required by F.A.C., Rule 62-701.500(1), at least one trained operator who will be responsible for the operation, supervision, and maintenance of the Facility shall be present at the landfill during all times when the landfill receives waste. Trained operators are

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#### **SPECIFIC CONDITIONS:**

those who satisfy the "operator" definition provided in F.A.C., Rule 62-701.200 and the training requirements of F.A.C., Rule 62-701.320(15) for both initial and continued training. Additionally, at least one trained spotter shall be present at the working face at all times the landfill is receiving waste. The spotter(s) shall inspect all loads for unauthorized wastes while waste is being unloaded at the working face and while it is being spread. Solid waste shall not be compacted unless it has been completely inspected. Prohibited waste discovered at the disposal area shall be removed and properly handled in accordance with the Operation Plan contained in Document 5. The personnel present during operating hours on the landfill shall include, at a minimum, a trained operator, a trained spotter, a material handler (laborer), and an equipment operator. If the waste receipt rate at the Facility exceeds 1,300 tons per day, the Permittee shall provide a minimum total of two compactors at the working face(s); if the waste receipt rate exceeds 2,600 tons per day at the Facility, a minimum of three compactors shall be provided at the working face(s). During peak hours and/or when the waste receipt rate is more than what the spotter(s) at the working face can adequately inspect, the landfill operator shall be responsible for providing additional personnel listed in the Required Personnel Matrix, contained in Attachment H of Document 5, and included herein as Attachment 1. For example, if the Facility is accepting waste in the range between 3,000 and 3,500 tons in a day, there shall be, during the peak times of 6:00 a.m. to 7:00 a.m., a minimum of two trained spotters, two laborers, and three equipment operators, for a minimum total of seven people. The laborers shall spot waste and remove prohibited waste under the direction of a trained spotter stationed at the working face.

13. **Working Faces.** The Facility may have up to two working faces at the same time on the condition that a tipper is being operated at one of the two working faces. At least one trained spotter shall be present at each respective working face and shall observe the waste stream for prohibited waste as it is being deposited and spread. For example, if waste is being accepted and/or spread at both working faces at the same time, there shall be at least one trained spotter at each working face. The spotters shall satisfy the definition provided in F.A.C., Rule 62-701.320(15)(h) and shall satisfy the training requirements of F.A.C., Rule 62-701.320(15) for both initial and continued training. The amount of exposed waste shall be minimized and the working face shall only be wide enough to accommodate vehicles discharging waste and heavy equipment spreading and compacting waste. No working face/daily cell shall exceed 60,000 square feet in size (200 feet long by 300 feet wide).
14. **Wet Weather Area.** During wet weather, when access to the regular working face is limited, the Landfill may accept waste in the Wet Weather Area. Although the location of the Wet Weather Area is based on accessibility during wet weather, it shall be located within the lined footprint disposal area and on an interior slope. The wet weather working face shall not exceed 60,000 square feet in size (200 feet long by 300 feet wide). The Permittee shall grade the

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area and implement measures to both prevent leachate from ponding within the waste area and to prevent it from running off and potentially mixing with and entering into the surface water management system. Additionally, measures shall be implemented to prevent runoff from surrounding areas from running onto the wet weather area. The wet weather area shall be located in area that contains either initial or intermediate cover. The Permittee shall apply either initial cover or a tarp, allowed by Specific Condition 33 of this permit, to the wet weather area at the end of the workday.

15. **Landfill Equipment.** The equipment operator shall first spread the waste as it is unloaded by the hauler and inspected by the spotter(s), and shall then compact the waste. The compactor shall make at least three to five passes over the waste, and initial cover shall be applied at the end of each workday over the entire working face(s). To ensure proper spreading, compaction, waste coverage, and other operational procedures at the landfill, the Permittee shall have sufficient equipment on site that, at a minimum, consists of: three compactors, two dozers, an excavator, a loader, a grader, a water wagon, three trucks, a service truck, and a tractor. Additionally, a tipper may also be provided and utilized for tractor trailers disposing at the landfill. The Permittee shall ensure that sufficient reserve equipment is available on site or that arrangements to obtain additional equipment within 24 hours of equipment breakdown have been made.
16. **Personnel Training.** The Permittee shall ensure that landfill operator(s), spotter(s), and equipment operator(s), employed at the Facility, are properly trained to operate the Landfill and to identify and properly manage any hazardous or prohibited materials which may be inadvertently received at the Facility. Landfill operators and spotters shall be trained in accordance with the F.A.C., Rule 62-701.320(15). The training courses shall be DEP-approved courses applicable to the job position. Spotters shall initially complete 8 hours of training. New employees shall complete the first training course available to them from the date of their employment. Within three years after attending the initial training, and every three years thereafter, spotters shall complete an additional 4 hours of continued training. Operators shall complete 24 hours of initial training and shall pass an examination as part of that training. Within three years after passing the examination, and every three years thereafter, the operators shall complete an additional 16 hours of continued training. Training Certification shall be kept on site and shall be made available to DEP at the Department's request including during a routine site inspection.
17. **Maximum Daily Tonnage.** The Permittee shall not accept more than 5,000 tons of solid waste at the Facility on any working day, unless authorized by DEP or during emergency situations, in which case, special accommodations are to be made to handle the additional volume of solid waste. On days when the waste acceptance rate is in the range between 4,500 and 5,000 tons,

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in accordance with the Required Personnel Matrix, contained in Attachment H of Document 5, and included herein as Attachment 1, there shall be a minimum of two trained spotters, three laborers, and four equipment operators, for a minimum total of nine people, during the peak times of 6:00 a.m. to 7:00 a.m., and 10:00 a.m. to 3:00 p.m.

18. **Waste Inspection at the Working Face.** Every load shall be inspected by a spotter for unauthorized waste as it is being unloaded and as it is being spread prior to compaction. The Permittee shall ensure that additional spotters are provided during peak hours and other periods when the waste receipt rate is more than what the spotter(s) at the working face can adequately inspect. All prohibited waste shall be removed to the appropriate designated temporary storage location and removed to a facility authorized to accept it.
19. **Prohibited Wastes and Liquid Restrictions.** Unauthorized waste, including, but not limited to white goods, lead acid batteries, used oil, yard waste, and whole tires, shall not be disposed of at the Landfill. Prohibited waste, inadvertently accepted, shall be removed from the waste stream and temporarily stored in the respective designated areas until removal. At a minimum, unauthorized waste shall be removed from the landfill at the end of the day. The waste tires shall be transported to the Waste Tire Storage and Processing Area, and the other unauthorized wastes shall be transported to the adjacent existing concrete storage area. Additionally, liquids shall not be disposed of in a manner that would violate the liquid restrictions of F.A.C., Rule 62-701.300(10).
  - a. **White Goods.** Upon discovery, any white goods discovered at the working face shall be removed from the waste stream. They may be placed near the working area within the lined area until removal (by the end of the work day) to the roll-off container designated for white good storage only. At a minimum, they shall be removed from the site on a quarterly basis and more frequently as needed. White goods, which could contain chlorofluorocarbons (CFCs), shall be stored and managed in a manner such that CFCs are not discharged to the environment.
  - b. **Batteries.** At no time shall any battery be stored directly on the ground. Batteries shall be placed on pallets a maximum of three layers high and, preferably, covered to prevent spills of acid and lead. Facility personnel shall prevent rainwater from collecting in the storage area to the point where the water is in contact with the batteries. To that end, Facility personnel shall check the water level in the storage area at least once each week and after all heavy rain events. In the event that more water is collecting than evaporating, the facility shall pump out the liquid and manage and treat it as leachate. At a minimum, batteries shall be removed from the site on a quarterly basis and more frequently as needed.

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- c. **Used Oil and Used Oil Filters.** The Facility shall store used oil and used oil filters in appropriate containers (e.g., in DOT-approved drums or tanks). Each container shall be labeled with the words "Used Oil" or "Used Oil Filters", respectively. All containers must be maintained in good condition. The storage containers should be protected from weather and shall be stored on a surface that is impermeable to oil. Any leak or spill shall be stopped, contained, managed and the container repaired or replaced.
20. **Handling and Removal of Hazardous Waste.** Loads containing hazardous waste shall be rejected and returned directly to the hauler at the gate. The Permittee shall ensure that all hazardous waste separated from the solid waste stream is returned to the generator, owner or hauler, or disposed of in accordance with all applicable federal, state, and local rules and regulations. Facility personnel should handle all hazardous waste, as defined in 261.3(a)(1) of Title 40 Code of Federal Regulations (40 CFR), that is discovered at the facility in accordance the requirements set forth in 40 CFR 261. Additionally, if hazardous waste is inadvertently accepted at the Facility, the Permittee shall follow the procedures outlined in the Section VII.I.2 "Handling hazardous wastes" of Operation Plan of Document 5 and shall follow all local, state, and/or federal regulations in handling the waste. The area where the wastes were deposited shall immediately be cordoned off from public access. If the generator or hauler cannot be identified, the Permittee shall assure the cleanup, transportation, and disposal of the waste to a permitted hazardous waste management facility. Additionally, the Permittee shall delineate in the field the extent of contamination by the hazardous waste materials. The Permittee shall record the incident in logs and shall include the identification of the facility to where the materials were removed. Said records shall be made available to DEP upon request. Within seven days of the incident, the Permittee shall provide a written report to DEP addressing the incident, including information regarding how the waste was and is being managed, and an assessment of the extent of contamination.
21. **Asbestos Disposal.** Asbestos disposal shall be in accordance with F.A.C., Rule 62-701.520(3) and all applicable rules and regulations. Regulated asbestos waste shall only be disposed of in a designated asbestos disposal area while an authorized, qualified landfill employee supervises the activity. Signs shall be posted identifying the designated asbestos disposal area. Each disposal location shall be recorded in accordance with 40 CFR Part 61.151&61.154 and records shall be maintained at the Facility. Asbestos waste shall immediately be covered with either one foot of clean soil or three feet of solid waste (that does not contain asbestos) overlain by a minimum of six inches of daily cover.
22. **Contaminated Soil Handling.** Prior to receipt of contaminated soils at the landfill, the Facility shall require analytical test results from a Florida certified laboratory, including at a minimum, Toxicity Characteristics Leaching Procedure (TCLP) for metals, volatiles, semi-volatiles,

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pesticides, and total PCBs. A five point composite sample is required for every 500 tons of soil prior to delivery to the Facility. If the analytical results indicate that the material is not hazardous waste, depending upon the contaminant of concern and DEP's approval on a case-by-case basis and if the constituents of concern do not exceed the commercial/industrial exposure levels of F.A.C., Chapter 62-777, then the contaminated soil may be disposed of at the landfill or utilized as initial cover on interior side slopes. If the soil has any visible organics or other material that may attract birds or vermin, has an odor, or is saturated, it shall not be utilized as initial cover.

If allowed for use on site as initial cover, approved contaminated soils shall be stored as follows:

- a. The material shall be stockpiled within the liner footprint on top of areas where intermediate cover is in place. The location of the stockpile shall not interfere with the landfill's routine operations;
- b. The material shall be stored in a manner to prevent any runoff from the area to the surface water management system. Stockpiles shall be located so that the minimum distance from their toe of slope to the edge of the landfill slope is no less than the maximum height of the pile. However, if the height of the stockpile is less than 20 feet, the minimum setback distance shall be 20 feet from any and all landfill side slopes. Additionally, silt fencing shall be installed around the base of the stockpile, except for access locations. The surrounding area shall be contoured and/bermed in such a way as to prevent any and all runoff from the stockpile from entering the surface water management system.
- c. A sign shall be placed at each entrance to the stockpile. Signs shall be placed at the stockpile area indicating the piles identification code as assigned to it in the record logs. The sign shall also state that the area is for the storage of initial cover material that may only be used on interior slopes;
- d. Material for which the facility has not yet obtained DEP's approval for use shall be stored separate from that which has received approval. Signs shall be posted designating and differentiating the area of approved piles from that of unapproved piles;
- e. The Permittee may store unapproved material at the facility for a maximum of 60 days without obtaining approval. If the Permittee has not received approval within the 60

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days, the material shall be removed for disposal/treatment at a facility authorized to dispose/treat it; and

- f. The Permittee shall keep records on the material received, and shall establish and maintain an identification code system for identifying the contaminated soil received. This code shall be indicated in the record logs. The source from where contaminated soil is received, the amount received, and its date of receipt shall also be recorded in the logs. Furthermore, the Permittee shall record the amount used for cover and the location of the placement in the logs. These records shall be kept on site and made available to DEP upon request.
23. **Slag Handling.** This permit authorizes the use of slag (particularly slag from Ameristeel) for access road stabilization, but only within the liner limits and only if the slag is not hazardous waste. The Permittee shall record in logs the source from where slag is accepted and the location where slag from a specific source is used. Prior to utilizing slag either from other sources or outside the liner limits, the Permittee shall request in writing for a permit determination.
24. **Ash Contaminated Soil Handling.** This permit authorizes the Facility to accept the City of Jacksonville ash contaminated soil. Prior to receipt of this ash contaminated soil at the Landfill, the Permittee shall, at a minimum, require analytical test results from a Florida-certified laboratory, including TCLP for eight RCRA metals. A five point composite sample is required for every 1,000 cubic yards of soil prior to delivery to the Facility. If the analytical results indicate that the material is not hazardous waste, and if the constituents of concern do not exceed the commercial/industrial exposure levels of F.A.C., Chapter 62-777, then the ash contaminated soil may be disposed of at the landfill or utilized as initial cover on interior side slopes. If the soil has any visible organics or other material that may attract birds or vermin, has an odor, or is saturated, it shall not be utilized as initial cover. Also, if allowed for use on site as initial cover, ash contaminated soils shall be stored in the same manner as indicated in the Specific Condition 22 (Contaminated Soil Handling).
25. **Ash Residue.** Ash residue shall not be used as initial cover and shall not be stockpiled on the site. Prior to receipt of ash residue at the Facility, the Permittee shall require analytical test results from the generator. If the material is deemed acceptable for disposal, the ash residue shall be placed at the working face and covered with additional waste or initial cover.
26. **Random Load Check.** Pursuant to F.A.C., Rule 62-701.500(6), the Permittee shall implement a load-checking program to detect and discourage attempts to dispose of unauthorized wastes

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at the Landfill. The load-checking program shall, at a minimum, consist of the following requirements:

- a. The landfill operator shall examine at least three random loads of solid waste delivered to the landfill each week. The waste collection vehicle drivers selected by the inspector shall be directed to discharge their loads at a designated location within the landfill. A detailed inspection of the discharged material shall be made for any unauthorized wastes.
- b. If any unauthorized wastes are found, the Permittee shall contact the generator, hauler, or other party responsible for shipping the waste to the landfill to determine the identity of the waste.
- c. Information and observations resulting from each random inspection shall be recorded in writing and retained at the Trail Ridge Landfill office for at least three years. The recorded information shall, include at a minimum, the following:
  - 1) The date and time of the inspection;
  - 2) The names of the hauling firm and driver of the vehicle;
  - 3) The vehicle license plate number;
  - 4) The source of the waste, as stated by the driver; and
  - 5) Observations made by the inspector during the detailed inspection.

The written record shall be signed by the landfill inspector and shall be made available to DEP upon request, including during routine inspections.

**27. Inspections and Repairs.** The Permittee shall inspect the Facility and repair insufficiencies in accordance with the following:

- a. **Weekly Inspections.** The Permittee shall inspect the Facility on a weekly basis and after all major storm events (e.g., a half-inch rainfall event). Particularly, the Permittee shall inspect the access control structures, the cover system, the perimeter stormwater ditches, the erosion control devices, the stability of the perimeter and access roads, the leachate collection system, the gas collection system, the wet detention pond, the storm water drainage structures and pipes, and the groundwater monitoring wells. The areas with intermediate cover shall be inspected for settlement, ponding, leachate seeps, and vegetative cover integrity and thickness. Also, the Permittee shall prevent the seepage of leachate out the sides of the landfill. If seepage is detected, it shall be repaired within 24 hours. The Permittee shall, at a minimum, utilize the Sample Inspection Checklist,



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contained in Appendix J of Document 5, and included herein as Attachment 2 for routine inspections. The result of the inspections shall be kept at the Facility's office, and shall be available to DEP upon request, including during routine inspections.

- b. Daily Inspections. The landfill operator or his designee shall inspect the Facility for dust, odor, and litter each day the Facility is open for operation.
  - 1) Litter Control. The Permittee shall implement a litter policing operation to keep litter from leaving the working area of the landfill. Litter control devices shall be installed, as necessary, to prevent litter from leaving the disposal areas. Any and all litter discovered outside the working face shall be collected and appropriately disposed of within 24 hours of discovery in accordance with F.A.C., Rule 62 701.500(7)(i).
  - 2) Road Maintenance. All-weather access roads to the site and disposal areas shall be constructed and maintained. All monitoring devices shall be accessible for monitoring activities.
  - 3) Dust Control. Dust control methods (e.g., water sprays) shall be employed as necessary. Either potable water or water from an on site uncontaminated source may be used in the effort. The water truck shall not be used for any other material (i.e., leachate).
  - 4) Odor Control. The Permittee shall prevent odors from migrating offsite and shall implement odor control strategies. If offsite odors are detected, a monitoring program shall be implemented and, if the odors are confirmed, a revised odor control plan shall be submitted to DEP.
- c. Repairs. Any and all eroded and/or depressed areas of the cover system shall be corrected within three days of the discovery. If the erosion cannot be corrected within three days of the occurrence, the Permittee shall notify DEP and propose a correction schedule. Maintenance or repairs of other insufficiencies shall be conducted within seven days of the discovery of the insufficiency or as otherwise approved by DEP in this permit or by letter. As an exception, repairs of gas monitoring wells shall be completed within 60 days of discovery of damage, or prior to the next monitoring event, whichever occurs first. Furthermore, the Permittee shall perform the following at the stormwater management system: repair any and all breaches of the stormwater system's integrity, remove all trash and debris, and remove sediments from drainage structures and wet detention pond, at a minimum, on an annual basis and more frequently when the conveyance capacity of the system is below design level.

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- d. **Record Logs.** The Permittee shall record in logs the insufficiency and the date of repair as well as a description of the repair. The Permittee shall attach a copy of the repair log to the completed inspection report during which the insufficiency was discovered.
28. **Waste Quantity Reports.** The Permittee shall record the amount, in tons, of waste received at the facility each day and shall also estimate and record the amount of the following types of waste received each day: residential, commercial, treated biomedical waste, water treatment sludge, agricultural, construction and demolition debris, waste tires, industrial, industrial sludge and domestic sludge, and non-hazardous special waste. The waste reports shall be compiled monthly and shall be provided to DEP by April 15, July 15, October 15, and January 15 of each year of this permit.
29. **Fill Phasing Plan.** The Facility shall be operated and closed in phases. The sequence of fill operations at the Trail Ridge Landfill shall be in accordance with the "Fill Phasing Plan," reflected on Drawing Sheets 11, 12, and 13 (Fill Phase 8 through Fill Phase 12) of Document 4. Waste filling operations in each phase shall generally proceed from east to west. Currently, Fill Phase 8 is being filled to elevation 210 feet National Geodetic Vertical Datum (NGVD). The eastern half of the landfill shall then be filled to elevation 270 feet NGVD (Fill Phase 9), which leaves access to the top from the southwest corner and northern slopes. The next phase (Fill Phase 10) shall be filled on the eastern portion to elevation 330 feet NGVD. Finally, the western slope and the top shall be filled in the final phases (Fill Phases 11 and 12). The Permittee shall place waste and conduct operations in a manner that prevents the ponding of stormwater in waste, the mixing of leachate with stormwater, and the running off of leachate into the stormwater system.
30. **Design Elevations, Annual Survey, and Slopes.** The maximum design elevation for the Trail Ridge Landfill is elevation 350.6 feet NGVD. This maximum specified elevation shall include the final cover system. A survey of the waste disposal areas shall be conducted and submitted to DEP between March 1 and July 1 of each year of this permit until it is within ten feet of the maximum design elevation, after which the survey shall be conducted quarterly. This information is to be submitted to DEP within 30 days of conducting the survey and shall include the existing elevations in five-foot contour intervals, as well as all points designed for terraces and the location of the toes of the side slopes in reference to the National Geodetic Vertical Datum. During operations, interior and external side slopes of waste material shall not exceed a slope of three-feet horizontal run to one-foot vertical rise. This includes the side slopes of each phase, including those slopes that will have additional waste placed against them in a subsequent phase.

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31. **Contingency Operations.** Prior to the imminent threat of a natural disaster (i.e., hurricane or tornado), flooding, and fire, the following procedures (at a minimum) shall be implemented:
- a. Initial soil cover shall be applied and compacted to all exposed solid waste;
  - b. All landfill equipment shall be fueled and parked near natural wind screens, earthen mounds or tree areas;
  - c. All lightweight signs and equipment shall be secured; and
  - d. The Facility shall temporarily shut down and cease accepting waste until such time that the emergency is over.
32. **Fire Safety and Hot Loads.** The Permittee shall extinguish a fire, either surface or subsurface that occurs at the Facility, as soon as possible. The area where a fire occurs, including a subsurface fire, shall be cordoned off. The local fire department shall be contacted when needed. Fire hydrant(s) shall be maintained at the Facility. The Permittee shall notify DEP of the fire as soon as possible and within 24 hours of its discovery.
- a. In the event a hot load is received or a fire occurs at the Facility, the Permittee shall follow the procedures addressed in Section VII.B. (Contingency Operation) found in Document 5 to control and extinguish the fire. If a hot load is received, it shall be immediately segregated from the rest of the wastes, removed to an area of the landfill that is isolated from the current active face, spread out, and smothered with soil. The hot loads shall be only discharged onto an area that has a minimum of 12 inches of cover. After the hot load is extinguished and cooled, the waste shall be moved to the active face for disposal or left in place with intermediate cover placed over it.
  - b. In the event a fire occurs within the working face, the following actions shall be implemented:
    - 1) The Facility shall immediately cease disposal operations in the working face area until the fire is extinguished;
    - 2) The landfill operator or his designee shall direct all waste disposal operations to another operational area (i.e., an area with no intermediate or final cover) within the liner footprint and that is a safe distance from the fire. The temporary disposal area shall not be located in an area that may interfere or delay movement of firefighting equipment.

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3) For a subsurface fire that occurs outside the working face, the landfill operator or his designee shall cordon off the area and shall assess whether the active working face should be moved until the fire is extinguished. At no time shall the Facility continue to accept waste in a hot/burning area.

33. **Cover Requirements.** In order to minimize the adverse environmental, health, and safety effects, cover shall be applied and maintained, and the following shall be implemented:

- a. **Initial Cover.** Initial cover shall be applied at the end of each workday over the entire working face. Initial cover, consisting of suitable soil or other materials approved by DEP as alternative covers, such as a soil/mulch mixture, shredded tires, contaminated soil, or ash contaminated soil, shall be placed at a minimum depth of six inches after placement. For those areas where waste will be deposited within 18 hours, geotextile materials (tarpaulin) such as Fabrene Type TG Product G168 and Nicholon Baycor Style 27600 may be placed as a temporary cover at the end of work day and removed prior to deposition of additional waste. However, these temporary covers shall not be used if they have obvious signs of deterioration. Other equivalent geotextile materials may be utilized upon receiving a written authorization from DEP. For portions of the working face not completely covered by the tarpaulin, six inches of initial cover shall be applied at the end of the working day. During periods when a tarpaulin has been utilized at the working face from Monday through Saturday, the six inches of initial soil cover requirement shall be applied before the close of business on Saturday.

A soil/mulch mixture that consists of no more than 50% mulch by volume may be used as initial cover on condition the mulch is no greater than three inches in any dimension, is free of plastic, and is covered with mulch-free intermediate cover prior to construction of the final cover system.

Shredded waste tires that are shredded in accordance with F.A.C., Rule 62-711.400(3)(a) (i.e., 70 percent of the waste tire material is cut into pieces of 4 square inches or less and 100 percent of the waste tire material is 32 square inches or less) may be used at the working face on condition the material is restricted to the interior slopes. Shredded material may be stored on interior slopes of the landfill in the vicinity of the working face prior to use. However, this permit does not authorize the storage or use of the material outside the lined footprint or on exterior sideslopes.

The Permittee may also use contaminated and ash contaminated soils as initial cover if it receives written approval to, per the Specific Conditions 22 and 24.

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- b. **Intermediate Cover.** Intermediate cover, in addition to the six-inch initial cover, shall be applied and maintained within seven days of cell completion if additional solid waste will not be disposed of within 180 days of cell completion. The intermediate cover may consist of either a 12-inch compacted layer of soil or a 16-inch thick layer of a soil/mulch mixture that consists of no more than 50% mulch by volume. The mulch/soil mixture shall be a homogeneous mixture and the mulch shall be ground into sufficiently small pieces (approx. one inch or less). The soil/mulch mixture shall be removed on exterior slopes and replaced with intermediate cover consisting of a minimum of 12 inches of uncontaminated soil with no mulch prior to construction of the final cover system. The intermediate cover shall be appropriately maintained to prevent erosion and waste exposure.
- c. **Vegetative Cover.** The Permittee shall establish and maintain a permanent good vegetative cover for those portions of the landfill that have received intermediate and/or final cover. The Permittee shall, at a minimum, observe the cover for stressed vegetation during the weekly facility inspection. If stressed vegetation is observed, the vegetation shall be re-established within 45 days of the date of the discovery. The Permittee shall conduct a mowing schedule of the vegetative cover that ensures the vegetation does not obstruct the operation of the monitoring and control devices, and does not exceed a height of 18 inches.

#### **34. Landfill Final Closure Requirements.**

- a. At least one year prior to the projected date on which waste will no longer be accepted or when all solid waste disposal units are expected to reach design dimensions, the Permittee shall provide a written notice to DEP with a schedule for cessation of waste acceptance and closure of the landfill. If unforeseen circumstances do not allow the one-year notification, the notice shall be provided as soon as the need to close the Landfill becomes apparent.
- b. At least 120 days prior to the date when wastes will no longer be accepted at the landfill, the Permittee shall advise users of the intent to close the landfill by posting signs at the entrance of the landfill giving the date of closing, the location of alternative disposal facilities, and the name of the person responsible for closing the landfill. These signs shall be maintained throughout the closing period.
- c. At least 90 days before the date when waste will no longer be accepted at the Landfill for disposal, the Permittee shall submit a closure permit application to DEP for review and approval. The application shall be on DEP Form 62-701.900(1), and shall include

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the required information. Closure of the landfill shall be in accordance with the closure permit that shall be obtained and the supporting information provided with the closure permit application, including time frames for placement of the cover system.

- d. Within ten days prior to the date when wastes will no longer be accepted at the landfill, the Permittee shall publish a notice of the landfill closing in the legal advertising section of a newspaper in general circulation in Duval County, and shall provide proof of publication to DEP within seven days of publication.

**35. Closure Phasing Plan and Final Cover Application.**

- a. Closure Phasing Plan. The Permittee shall close the Landfill in phases as areas are filled in accordance with the "Closure Phasing Plan," reflected on Drawing Sheets 14 and 15 of Document 4. Within 180 days of attaining the design elevations of approximately 210 feet NGVD for Closure Phase 3, 270 feet NGVD for Closure Phase 4, 330 feet NGVD for Closure Phases 5 and 6, and 345 feet for Closure Phase 7, the Permittee shall apply the final cover and complete the closure of the respective areas. The closure shall, at a minimum, include grading the closure areas, installing the final cover system over them, including establishing vegetation, and providing the indicated terraces, downcomer pipes and gas wells. The Permittee shall record when the said design elevations are reached. The Permittee shall conduct on site surveying during operations to ensure the design elevations and grades are met, yet not exceeded, and to ensure that the closure construction is provided at the correct elevations.
- b. Final Cover System Design. Terraces, underdrains, downcomer pipes, and the final cover system shall be constructed in accordance with the details provided on Drawing Sheets 20 and 21 in Document 4.

1) Side Slopes. The final cover system for the side slopes shall consist of the following from bottom to top: a minimum 12-inch intermediate cover layer consisting of only uncontaminated soil material; a minimum 12-inch compacted clay layer with a maximum permeability of  $6.67 \times 10^{-8}$  cm/sec; a minimum of 24 inches of loosely compacted soil layer with the top 6 inches capable of sustaining vegetation; and the vegetative cover.

2) Top Area. The final cover system for the top area shall consist of the following from bottom to top: a minimum 12-inch intermediate cover layer consisting of only uncontaminated soil material; a textured HDPE geomembrane with a minimum average thickness of 40-mil and a maximum water vapor transmission rate of 2.4 g/

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- (m<sup>2</sup> x day); a minimum 12-inch sand layer with a minimum permeability of  $1 \times 10^{-3}$  cm/sec ; and a minimum 12-inch soil layer with the top 6 inches capable of supporting vegetation.
- c. Interface Friction Angles. The Permittee shall test the interface friction angles of the material that will be installed in the final cover system to ensure they meet the design criteria.
  - d. Closure Construction Quality Assurance. The Permittee shall provide for quality assurance for each of the phased closure projects. In constructing the side slopes the Permittee shall implement the procedures and conduct the testing proposed in the "Quality Assurance/Quality Control Plan for Side Slope Closure," provided in Attachment K of Document 5. In constructing the top area, the Permittee shall implement the procedures and conduct the testing proposed in the "Quality Assurance/Quality Control Plan for Top Area," provided in Appendix L of Document 5. Quality assurance shall be provided by a qualified party independent contractor, and the quality assurance individual shall be experienced in landfill construction.
  - e. Certification of Closure Construction Completion. In accordance with Rule 62-701.400(7)(d), F.A.C., within 30 days of completion of construction, the engineer of record shall certify to DEP that the permitted construction is complete and that it was constructed in substantial conformance with the approved plans, the construction quality assurance (CQA) plan, Chapter 62-701, F.A.C., with EPA Document EPA/600/R-93/182, and with this permit except where minor deviation was necessary. All deviations shall be described in detail and the reasons therefore enumerated. The certification shall, at a minimum, include a completed copy of DEP Form 62-701.900(2), "Certification of Construction Completion of a Solid Waste Management Facility." The certification shall be prepared, signed, and sealed by a Professional Engineer registered in the State of Florida. Also, a CQA report and record drawings, signed and sealed by the professional engineer providing CQA to the project, shall be provided to DEP for review and approval. The submittal shall also include the CQA personnel's daily observation logs. Record Drawings and a final survey report done by a Professional Surveyor, in accordance with Rule 62-701.610(3), F.A.C., shall be provided for each incremental closure as well as for the final closure. The official long-term period will not begin until the final certification of the entire permitted facility is received and approved by DEP and the other requirements of F.A.C., Rule 62-701.610 are met.

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36. **Use of Closed Landfill Areas.** Pursuant to F.A.C., Rule 62-701.610(7), DEP retains regulatory control over any and all activities that may affect the integrity of the environmental protection measures such as the landfill cover, drainage, liners, monitoring system, and/or leachate, gas and stormwater controls. The Permittee shall consult with DEP prior to conducting any activities at the closed landfill. Additionally, the Permittee shall control access to the Facility.
37. **Gas and Odor Monitoring and Remediation.** The Permittee shall monitor gas levels, and shall take measures to prevent explosions and fires, and to minimize off-site odors, lateral migration of gases and damage to vegetation.
- a. **Gas Monitoring.** Gas monitoring wells/probes (GP) GP-6, GP-7, GP-8, GP-9, and GP-10, gas monitoring locations (GM) GM-01 through GM-05, and any other on site structures, shall be properly monitored on a quarterly basis throughout the duration of this Permit. The gas monitoring wells/probes/locations are shown on Attachment 3. Quarterly gas monitoring shall be conducted by March 31, June 30, September 30 and December 31 of each year of this permit. The Permittee shall record these gas monitoring results and shall submit a summary report to DEP within 15 days of the monitoring event, specifically, by April 15, July 15, October 15, and January 15, respectively, of each year of this permit. Combustible gas meters shall be calibrated to methane. The routine gas-monitoring program shall monitor concentrations of combustible gases at ambient monitoring points and in gas monitoring wells. The concentration of combustible gases generated by the landfill shall not exceed 25% of the lower explosive limit (LEL) for combustible gases in structures on- or off-site, excluding gas control or recovery components. Additionally, the LEL for combustible gases shall not be exceeded at or beyond the landfill property boundary or in a compliance gas monitoring well/probe. The Permittee may be subject to more frequent monitoring based upon DEP's review of these data results.
- b. **Gas Monitoring Well Maintenance.** The integrity of the gas monitoring system shall be maintained. The wells shall be clearly labeled, locked, and provided with protective structures to prevent them from being accidentally damaged during mowing and/or other activities. The gas wells shall be inspected during the weekly inspections. Should a gas monitoring well be found damaged or if it fails to operate for any reason, the Permittee shall notify DEP within seven days of the inspection. Damaged or non-functional gas monitoring wells shall be repaired or replaced within 60 days of the inspection unless the Permittee is notified otherwise in writing by DEP. Should replacement of gas monitoring wells be required, installation shall be in accordance with the QA/QC plan. Material and construction specifications shall conform to the original closure design plan. The installation of the gas wells shall be certified as



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meeting the requirements of this specific condition by a professional engineer registered in the State of Florida. The engineer's certification along with boring log shall be submitted to DEP within 30 days of completion of installation.

- c. **Gas Remediation.** If, during a monitoring event, the results show that combustible gas concentrations exceed the lower explosive limit at the property boundary and/or at a compliance gas monitoring well/probe (i.e., GP-6 through GP-10), or if 25% of the LEL is exceeded within a structure or at a gas monitoring location (i.e., GM-01 through GM-05), the Permittee shall immediately take all necessary steps to ensure protection of human health and shall notify DEP, by telephone, of the violation within 72 hours of the time that the violation is first discovered. Within seven days of detection, the Permittee shall submit a report addressing the nature and extent of the problem. The report shall also include a proposed remedy for approval. The remedy shall be completed within 60 days of detection unless otherwise approved in writing by DEP.
- d. **Odor Remediation Plan.** The Facility shall be operated and maintained to control objectionable odors in accordance with Rule 62-296.320(2), F.A.C. If gas concentrations cause objectionable odors beyond the landfill property boundary, the Permittee shall implement a routine odor monitoring program to determine the timing and extent of off-site odors and, if the monitoring program confirms the existence of objectionable odors, the Permittee shall submit to DEP for approval an odor remediation plan for the gas releases. The plan shall describe the nature and extent of the problem and the proposed remedy. The remedy shall be initiated within 30 days of approval.

38. **Active Gas Collection System.** The landfill gas collection system consists of gas extraction wells, gas collection pipes, a gas extraction blower, a flare station, and a gas condensate pump station.

- a. **Authorization and Permits.** This permit authorizes Trail Ridge Landfill to construct and operate an active gas collection system. However, the Permittee shall be responsible for obtaining all other necessary permits for the construction and operation of the active gas collection system. All requirements of F.A.C., Chapters 62-296 and 62-701 [the New Source Performance Standards (NSPS) for Municipal Solid Waste Landfills] as well as 40 CFR 60.756 and 40 CFR 60.18, and all applicable DEP regulations, shall apply to the proposed active gas collection system. Installation of the active gas collection system shall be in accordance with the NSPS for Municipal Solid Waste Landfills and shall proceed in phases as sections of the landfill are brought up to final grade and elevations. Portions of the system shall be constructed during each closure construction phase, as shown on Drawing Sheets 14 and 15 (Closure Phasing

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- Plan) of Document 4. The final permanent gas collection system including header pipes shall be installed during the final closure construction phase and shall be constructed as shown on Drawing Sheet 9A of Document 4, and shall be placed into operation. Interim wells may also be installed in areas that have not achieved final grades to allow for immediate gas collection until the permanent wells are installed or until the final grades are reached.
- b. Associated Structures. Upon completion of the active gas collection system, 73 gas extraction wells that extend from a minimum of ten feet from the bottom liner system, shall be installed at the landfill. A unique identification number shall be assigned for each gas extraction well. The location and installation of the gas extraction wells, headers, lateral alignment, and liquid management facilities may vary slightly to accommodate landfill field slope.
  - c. Construction Certification. Upon completion of the active gas collection system, the Permittee or authorized representative, shall complete and submit to DEP, DEP Form 62-701.900(2) [Certification of Construction Completion of a Solid Waste Management Facility]. In addition, the professional engineer in charge of construction quality assurance shall certify that the active gas collection system has been constructed in substantial conformance with the plans and project specifications and shall provide a signed and sealed final construction quality assurance report, record documentations (including well construction logs) and record drawings to DEP. At such time, the Permittee shall arrange for DEP representatives to inspect the construction of the active gas collection system in the company of the Permittee, Project Engineer and the landfill operator.
  - d. Gas Condensate Testing. Since the gas condensate is discharged into the leachate collection system and the combined stream (leachate and condensate) is tested in accordance with the leachate sampling requirement, separate testing of the gas condensate is not required.
  - e. Gas-to-Energy Facility. This permit authorizes the connection of the landfill's existing gas and leachate collection systems to a Landfill Gas-to-Energy Facility (Energy Facility). The existing landfill gas flare(s) will continue to be utilized as a backup to the Energy Facility. The existing landfill gas collection system is connected to the Energy Facility via a new 24-inch line at a 24-inch header located outside the lined landfill and in between the existing perimeter road and the flare station by means of a "Tee" connection as shown on Drawing C-1a of Document 10. Gas condensate generated by the Energy Facility, shall be collected, drained to a pump station adjacent to the Energy

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Facility, and discharged into the landfill leachate collection system. The Permittee shall monitor the amount of gas condensate collected at the Energy Facility. A summary shall be included in the regular leachate monitoring report. Additionally, the Facility shall be in compliance with Chapters 62-710 and 62-762, F.A.C. (Used Oil Management and Above Ground Storage Tanks, respectively).

- f. **Construction Requirements.** During the construction of the active gas collection system in areas where final cover has been installed (i.e., on completed side slopes), the Permittee shall ensure that the final cover system is restored back to the original project closure construction specifications and in accordance with the QA/QC plan. These activities shall be documented and shall be submitted as part of the reporting requirements specified in Specific Condition 35.
- g. **System Maintenance.** The Permittee shall inspect the sufficiency of the temporary header pipes and wells, especially in areas of settlement. If discovered to have become inoperable and irreparable, the Permittee shall sever the temporary header from the header system and abandon it. A new header pipe shall be installed to connect the gas wells to the vacuum system. If inoperable but repairable, the Permittee shall either repair it or replace it. If the Permittee elects to replace it rather than repair it, the deficient header shall be severed from the header system and abandoned. Temporary wells may be extended vertically, as waste is placed around them. If a temporary well is abandoned, it shall be grouted full, cut at least 18 inches below surface, and covered with a minimum of 18 inches of clean fill.

39. **Leachate Management.** Leachate shall be managed in accordance with F.A.C., Rule 62-701.500(8) and the applicable information submitted in the Documents referenced at the beginning of this Permit, and as amended by this Permit.

- a. **Action Leachate Leakage Rate.** The Permittee shall monitor the amount of leachate collected at the Landfill. The level in and flow of leachate from both the leachate collection and detection sumps shall be monitored by means of a bubbler sensor and a manometer or other equivalent device at the control panel for each pump station. The amount of leachate pumped from each primary leachate collection system (PLCS) and each secondary leachate detection system (LDS) at each sump shall be measured by a flow meter located inside the vault box. The quantity of leachate collected from the PLCS and LDS shall be recorded in gallons on a daily basis, Monday through Friday at a minimum. The action leachate leakage rate for the facility is 4,492 gallons per cell per day. If 4,492 gallons or more is detected in the LDS of a cell on any one day, the Permittee shall notify DEP of the situation within 24 hours by telephone and in a

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written report within seven days of discovery of the exceedance. The report shall include a description and assessment of the situation, proposed remedial actions and a schedule for commencing and completing the remediation. A cell is defined as the area served by a pump station and is shown on Drawing Sheet 7, provided with Document 4. The smallest cell is 17.7 acres.

- b. Backflow Prevention. To aid in preventing back flow into the system, if the level in a sump exceeds 3.5 feet, (the sump is recessed 3.5 below the base of the landfill and is double lined) an audio and visual alarm shall sound at the control panel for the pump station. The Permittee shall remedy the situation if this level is exceeded and shall follow the procedures and provide the reports required for the exceedance of the action leachate leakage rate.
- c. Pump Stations and Flow Meter Maintenance. The Permittee shall maintain the pump stations and their associated components, including the pumps, and the measuring and monitoring devices, and shall ensure that they are operational. At each pumping station, two pumps (one for the collection system and another for the detection system) shall be maintained. Pumps shall be operated in automatic mode and in a manner that will prevent leachate from collecting in a sump beyond its design level, backing up into the system, or discharging to the environment. If a pump is taken out of service or manually shut down, a replacement pump shall be provided in its place. The Permittee shall maintain the visual and audible alarms so that they will alert the Permittee in the event the allowable leachate level in a sump is exceeded. If alerted, the Permittee shall provide a backup pump, record the flow of leachate, investigate the situation and implement remedial actions if warranted. The Permittee shall maintain at least one backup pump onsite and shall install it or another pump equivalent to the design pumps within the same day a pump is discovered to be insufficient and/or taken out of service for maintenance or repairs. There are eight pump stations. They are located on the east side of the landfill and the system is designed so leachate will flow from west to east. The pump stations and the areas they serve are as follows:

- Pump station 1A – Phases 1A and II A
- Pump station 1B – Phases 1B and II B
- Pump station 1C – Phases 1C and II C
- Pump station IIIA – Phases III A and IVA
- Pump station IIIB – Phases IIIB and IVB
- Pump station IIIC – Phases IIIC and IV C
- Pump station VA – Phases VA and VC
- Pump station VB – Phases VC and VD

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- d. Leachate and Precipitation Comparison. The Permittee shall maintain a recording rain gauge and shall compare the recorded precipitation rates to the leachate generation rates. Leachate generation reports shall be compiled monthly and submitted to DEP quarterly by April 15, July 15, October 15, and January 15 of each year. Leachate generation reports shall include the daily precipitation amounts, the quantities of leachate collected from the PLCS and LDS, and the amount of leachate transported to the wastewater treatment facility. The report shall include a breakdown of the amount of leachate that is collected from the LDS each day, and not only include the totalizing amount of multiple days.
- e. Leachate Treatment. Leachate collected from the landfill shall be stored on site in the six 20,000-gallon leachate storage tanks and transported to the Buckman Wastewater Treatment Facility for treatment and disposal. The owner or operator shall obtain approval from DEP prior to disposing leachate to another wastewater treatment facility.
- f. Inspections. The overflow prevention system and the exposed exterior of all leachate storage tanks shall be inspected weekly. If the inspection reveals a tank or equipment deficiency, leak, or any other deficiency that could result in failure of the tank to contain the leachate, remedial measures shall be taken immediately to correct the deficiency. Inspection reports shall be maintained and made available to DEP upon request for the lifetime of the liquid storage system.
- g. Sludge Removal. Sludge or solids taken from the leachate storage tanks, whenever the storage tanks are drained for routine maintenance, inspections or repair, shall have a hazardous waste determination performed for metals and organics in accordance with 40 CFR 262.11 and F.A.C., Rule 62-730.160. The sludge and solids shall be disposed of at a permitted facility, based on the results of the testing performed.
- h. Maintenance of Leachate Collection System. The Permittee shall perform routine maintenance of the leachate collection and removal system and all associated structures, to ensure proper operation of the system. The Permittee shall, in an appropriate manner, clean out the leachate collection system if and when obvious signs of obstruction(s) are exhibited. The system shall be inspected by video recording at the time of permit renewal. The engineer of record shall review the video recording and shall provide a written evaluation of his/her review and a statement as to the sufficiency of the system. The evaluation shall be provided with the permit renewal application.

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i. Leachate Recirculation. Leachate recirculation is not authorized under this permit.

40. **Leachate Monitoring.** Leachate shall be sampled prior to September 30 of each year of the permit, and the data submitted in conjunction with the October 15 Report required in Specific Condition 45.k. A composite sample will be taken from the drain valve of each of the five leachate collection system storage tanks (Tanks 1 thru 5) and one sample shall be taken from the drain valve of the leachate detection system storage tank (Tank 6) and shall be analyzed for the following parameters:

Field Parameters

Specific conductivity  
pH  
Dissolved Oxygen  
Colors, sheens

Laboratory Parameters

Total ammonia - N  
Nitrate  
Bicarbonate  
Chlorides  
Iron  
Mercury  
Sodium  
Total Dissolved Solids (TDS)  
Those parameters listed in 40CFR  
Part 258, Appendix II

Sampling and monitoring data shall be collected, analyzed, reported and retained in accordance with Chapter 62-160, F.A.C. and Rule 62-522.600, F.A.C. Any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health (DOH) under Chapter 64E-1, F.A.C., where such certification is required by Rule 62-160.300, F.A.C. The laboratory must be certified for all specific method/ analyte combinations that are used to comply with this permit. Biological evaluations shall follow the applicable procedures in DEP-SOP-002/01 (January 2002). All field activities including on site tests and sample collection, whether performed by a laboratory or another organization, must follow all applicable procedures described in DEP-SOP-001/01 (January 2002). Alternate field procedures and laboratory methods may be used if they have been approved according to the requirements of Rules 62-160.220 and 62-160.330, F.A.C. Detection levels shall be at or below groundwater standards and/or criteria.

Leachate sampling results shall be prepared and submitted to DEP in accordance with the "Guidance for Submitting Electronic Water Quality Data to the Solid Waste Program" document, provided as Attachment 4 in this permit, and as part of the semi-annual ground

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and surface water monitoring Electronic Reporting in accordance with Specific Condition 45.k. of this permit.

Concerning leachate sampling and analysis, if a contaminant listed in 40 CFR 261.24 exceeds the regulatory level listed therein, the Permittee shall follow the procedures addressed in F.A.C., Rule 62-701.510(6)(c) 2, which includes notifying DEP of the results in writing and conducting monthly sampling and analysis, commencing within 30 days of the date the of the sampling event in which the exceedance is first detected. The Permittee shall provide DEP with the monthly analysis. Should the composite sample taken from the five leachate collection storage tanks be determined hazardous, leachate stored in all five tanks shall then be treated as hazardous, unless it is determined through additional leachate sampling and testing, that a tank or tanks do not contain the hazardous leachate. Leachate that is determined hazardous shall be managed in accordance with F.A.C., Rule 62-730. The written notification required per said rule shall be provided as soon as possible and shall indicate how the leachate was managed.

Please note that this permit does not authorize onsite treatment or pretreatment of leachate.

41. **Power Generators.** For power outages that extend for a period of 24 hours or more, the Permittee shall, unless onsite generators are available, obtain emergency generators within 48 hours of the time the power outage first occurs. In the interim and for shorter power outages, onsite equipment may be utilized to power the leachate sump pumps.
42. **Waste Tire Processing Facility.**
  - a. **Authorization.** This permit authorizes Trail Ridge Landfill to operate a waste tire processing facility on a parcel of land south of the non-contract drop off area and east of the operations building. Storage of waste tires and the operation of the waste tire processing facility shall be in accordance with F.A.C., Rule 62-711.
  - b. **Storage Limits.** The maximum number of whole waste tires, processed waste tires, and residuals shall be limited to 60 times the daily through-put of the processing equipment. In addition, the number of whole waste tires shall be limited to 30 times the daily through-put of the processing equipment. Since the daily through-put of the processing equipment is estimated to be 3.33 tons per day, the maximum storage of whole tires shall not exceed 100 tons (i.e., approximately 10,000 tires). Each storage pile shall be no wider than 50 feet, with an area no greater than 10,000 square feet, and a height no greater than 15 feet. The limits of the waste tire storage area shall be appropriately

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marked to ensure that all waste tires are stored within these limits. Tires may only be stored on the paved impervious surface of the waste tire storage area. The Permittee shall also maintain the existing curb to contain, within the paved tire storage area, any potential liquid residue from a tire fire. Any liquid tire fire residual shall be managed in accordance with all applicable local, state and/or federal regulations. Additionally, a 50-foot wide fire lane shall be maintained around the perimeters of each waste tire pile. Access to the fire lane for emergency vehicles must be unobstructed at all times.

- c. **Processed Waste Tires.** At least 75 percent of the waste tires and processed tires that are delivered to or stored at the facility at the beginning of each calendar year shall be processed and disposed of on site or transported offsite to a permitted facility for recycling or disposal. The temperature of above-ground piles of processed tires over ten feet high shall be monitored and temperature control measures shall be instituted so the pile temperatures do not exceed 300 degrees Fahrenheit. Temperature monitoring and controls are not required for processed tires disposed of in the landfill. If waste tires are to be disposed of in the landfill, the tires must be cut into at least eight substantially equal pieces. Processed tires disposed of in the landfill, which do not meet the size requirement of F.A.C., Rule 62-711.400(3)(a) for initial cover, must receive initial cover as defined in F.A.C., Rule 62-701.200.
- d. **Annual Fire Safety Survey.** The Permittee shall submit, by December 31 of each year, an annual fire safety survey report for the waste tire processing facility.
- e. **Waste Tire Processing Facility Quarterly Report.** The Permittee shall, by the 20th of the month following the close of each calendar quarter, provide the information required pursuant to F.A.C., Rule 62-711(530)(5) including a completed DEP Form 62-711.900(21).
- f. **Additional Recording Requirements.** The Permittee shall record and maintain for three years, the information required in F.A.C., 62-711.530(4)(a thru c) and F.A.C., 62-711.530(5)(a through g) and shall keep the records available to DEP upon request.
- g. **Closing.** The Permittee shall follow the plan for closing waste tire storage area provided in Appendix I of Document 5, and shall also provide receipts from the facilities to where the waste tires and any residuals are sent during closure. All tires and residuals shall be removed within 30 days of the last waste receipt date, which shall be recorded in logs and the logs provided to the DEP upon request.



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43. **Air Construction Permit.** A landfill for which construction or modification is subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C. must make application to the Bureau of Air Regulation, Mail Station 5505, 2600 Blair Stone Road, Tallahassee, Florida, 32399-2400, for an air construction permit and must obtain such permit prior to beginning any construction or modification.
44. **Air Permit Requirement.** The Permittee shall comply with the requirements of 40 CFR 60, Subparts WWW, as adopted by reference at Rule 62-204.800, F.A.C. The Permittee shall submit to the Air Program, Northeast District Office, Florida Department of Environmental Protection, 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7590, any amended design capacity report pursuant to 40 CFR 60.757(a)(3).
45. **Groundwater Monitoring Requirements.** In accordance with F.A.C., Chapters 62-701 and 62-520, the Permittee shall install, place into operation, and maintain a water quality monitoring system.
  - a. The groundwater monitoring system shall be designed, constructed, operated and maintained in accordance with F.A.C., Chapters 62-3 and 62-520, and with the Groundwater Monitoring Plan with Additional Responses, as modified by the conditions specified in this permit.
  - b. Pursuant to F.A.C., Rule 62-520.465, the zone of discharge shall be limited horizontally to 100 feet from the waste management area; or to the property boundary; or to the shortest distance between the location of the compliance monitoring wells and the waste management area; whichever is less. This zone of discharge shall remain in effect unless it becomes necessary to seek a change in accordance with F.A.C., Rule 62-520.470.
  - c. The Permittee shall ensure that the water quality standards for Class G-II ground water will not be exceeded at the boundary of the zone of discharge pursuant to F.A.C., Rule 62-520.420.
  - d. The Permittee shall ensure that the minimum criteria for ground water specified in F.A.C., Rule 62-520.400 shall not be violated within the zone of discharge.
  - e. Approximate monitoring well locations and designations shall be in accordance with Attachment 5. In conjunction with the construction of any new wells, a surveyed drawing shall be submitted showing the location of all monitoring wells (active and abandoned) that will be horizontally located by metes and bounds or equivalent

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surveying techniques. The surveyed drawing shall include the monitor well identification number, as well as location and elevation of all permanent benchmark(s) and/or corner monument markers(s) at the site. The survey shall be conducted by a Florida Registered Surveyor. All wells are to be clearly labeled and easily visible at all times. In accordance with F.A.C. Chapter 62-701, monitor wells designed to monitor phases III C, IV C, VA, VB, VC, and VD shall be designated detection wells and be placed no greater than 50 feet from the limits of the waste. Monitoring of all active cells shall be by wells located within 50 feet of waste or as close to that point as physically practicable.

Compliance Wells MWB-14(S)c, (I)c, (D)c; MWB-23(S)c; MWB-24(S)c; MWB-25(S)c, (I)c, (D)c; and MWB-26(S)c shall be maintained, but will not be utilized unless required for assessment monitoring.

Background Well Clusters: MWB-2(S)b, 2(I)b  
MWB-3(S)b, 3(I)b  
MWB-31(D)b

#### Phase I

Compliance Well Clusters: MWB-7(S)c, 7(1)c, 7(D)c  
MWB-11(S)c, 11(1)(R)c  
MWB-12(S)c, 12(1)c, 12(D)c  
\*MWB-14(S)c, 14(I)c, 14(D)c  
MWB-19(S)c, 19(I)c, 19(D)c  
MWB-20(S)c  
MWB-21(S)c  
MWB-22(S)c

#### Phase II

Compliance Well Clusters: MWB-17(S)c, 17(I)c, 17(D)c

#### Phase III and Phase IV

Compliance Well Clusters: MWB-13(S)c, 13(I)c  
\* MWB-23(S)c

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Detection Well Clusters: MWB-33(S)d  
MWB-34(S)d, 34(I)d, 34(D)d

Phase V

Compliance Well Clusters: \*MWB-24(S)c  
\*MWB-25(S)c, 25(I)c, 25(D)c  
\*MWB-26(S)c  
MWB-27(S)c, 27(I)c, 27(D)c  
MWB-29(S)c, 29(I)c, 29(D)c

Detection Well Clusters: MWB-32(S)d, 32(I)d, 32(D)d

\* Indicates compliance monitoring well or well cluster replaced by detection wells. No longer on regular sampling schedule, but to be maintained for potential future sampling (if needed).

- f. All groundwater monitoring wells shall be designated and constructed in accordance with F.A.C., Chapter 62-520 and ASTM Standard D-5092. All shallow surficial monitoring wells shall be constructed such that a portion of the screened interval shall extend into the vadose zone during all portions of the year and the screened interval shall be of sufficient length that a minimum of approximately five feet of screen shall extend into the water column throughout the year. Upon completion of construction of any new groundwater monitoring wells, the following information shall be submitted to the Department within fifteen days for all groundwater monitoring wells (permanent and temporary):

Well identification	Driller's Lithologic Log
Latitude/Longitude	Total well depth
Aquifer monitored	Casing diameter
Screen type and slot size	Casing type and length
Elevation at land surface	Depth to groundwater

A well completion report will be provided for all wells. A surveyed drawing shall be submitted showing the location of all monitoring wells (active and abandoned) that will be horizontally located by metes and bounds or equivalent surveying techniques. The surveyed drawing shall include the monitor well identification number as well as location and elevation of all permanent bench mark(s) and/or corner monument

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marker(s) at the site. The survey shall be conducted by a Florida Registered Surveyor. Well construction at and above ground surface shall be designed to secure and protect the groundwater monitoring wells.

At each well location, construction shall include a concrete surface pad and above ground vertical protective casing with a locking top. The casing and top shall be required to be in good working order, intact and locked. A minimum of two protective bollards shall be placed at the edges of concrete surface pad. Bollards shall be at a minimum of the approximate height of the protective casing and constructed of materials capable of providing some protection of the protective casing from accidental collision with machinery.

- g. In the event any monitoring well becomes damaged or inoperable, the Permittee shall notify the Department within 72 hours and a detailed written report shall follow within seven days. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent a recurrence. All monitoring well design and replacement shall be approved by DEP prior to installation.
- h. Within 60 days of issuance of this permit, all piezometers and wells not a part of the approved groundwater monitoring plan are to be plugged and abandoned in accordance with St. Johns River Water Management District Rule 40C3.531. The Permittee shall submit a written report to DEP providing verification of the well plugging and abandonment. A written request for exemption to the plugging and abandonment of a well must be submitted to DEP for approval.
- i. Groundwater levels shall be recorded no less than 48 hours after well installation and prior to evacuating the well for sample collection. Measurements, referenced to National Geodetic Vertical Datum ( N.G.V.D.), shall include groundwater surface elevation, the top of well casing, and land surface at each site at a precision of plus or minus 0.01 feet. This information shall be submitted to DEP with the semi-annual groundwater analytical results. A map must be constructed depicting locations of wells and piezometers and corresponding water level measurements.
- j. All sample collection and water quality analysis shall be in conformance with F.A.C., Chapter 62-160 and Rule 62-520.600. Sampling and monitoring data shall be collected, analyzed, reported and retained in accordance with Chapter 62-160, F.A.C. Laboratory detection limits for arsenic must be 10 µg/l or less.

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Any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health (DOH) under Chapter 64E-1, F.A.C., where such certification is required by Rule 62-160.300, F.A.C. The laboratory must be certified for all specific method/analyte combinations that are used to comply with this permit.

Biological evaluations shall follow the applicable procedures in DEP-SOP-001/01 (December 2008).

All field activities including on-site tests and sample collection, whether performed by a laboratory or another organization, must follow all applicable procedures described in DEP-SOP-001/01 (December 2008). Alternate field procedures and laboratory methods may be used if they have been approved according to the requirements of Rules 62-160.220 and 62-160.400, F.A.C.

- k. Groundwater sampling results, required water quality monitoring reports and all ground water, surface water and leachate analytical results shall be submitted electronically. Water quality monitoring reports shall be submitted in Adobe pdf format. The water quality data Electronic Data Deliverable (EDD) shall be provided to DEP in an electronic format consistent with requirements for importing the data into DEP's databases. Water quality monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall include the following:

- 1) Cover letter;
- 2) Summary of exceedances and recommendations;
- 3) Ground water contour maps;
- 4) Chain of custody forms;
- 5) Water levels, water elevation table;
- 6) Ground Water Monitoring Report Certification, using the appropriate DEP form;
- 7) Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01); and,
- 8) Laboratory and Field EDDs and error logs, as applicable.

All submittals in response to this specific condition shall be sent both to:

Florida Department of Environmental Protection  
Northeast District Office  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

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And to:

Florida Department of Environmental Protection  
Solid Waste Section  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida, 32399-2400

Electronic Water Quality Data shall be prepared and submitted in accordance with the "Guidance for Submitting Electronic Water Quality Data to the Solid Waste Program" document, provided as Attachment 4 in this permit.

1. All groundwater background detection monitoring wells and active compliance monitoring wells shall be sampled and analyzed semi-annually for the parameters listed in Attachment 6. However, additional samples, wells, and parameters may be required based upon subsequent analyses. Semi-annual samples will be collected for all wells for each phase of monitoring prior to March 30 and September 30 of each year. A report of laboratory data will be submitted to DEP for each sampling period no later than April 15 and October 15 of each year, respectively.
- m. Sixty days prior to the renewal of this permit, the Permittee shall sample and analyze all monitoring wells for the parameters listed on Attachment 7. This sampling shall be in lieu of the corresponding semi-annual sampling event.
- n. The Permittee shall prepare and submit to DEP groundwater surface contour maps, prepared from data collected from all permitted wells on site, for the initial sampling event and each semi-annual sampling event. A shallow surficial map, utilizing data from the shallow wells; an intermediate surficial map, utilizing the data from the intermediate wells; and a deep surficial map, utilizing data from the deep wells will be prepared and submitted to DEP, with the groundwater elevation data. This information shall be submitted in conjunction with the initial and semi-annual analytical data.
- o. If groundwater monitoring results in detection wells are significantly above background well water quality, or are above DEP water quality standards or criteria specified in Chapter 62-520, F.A.C., the Permittee may resample the wells within 30 days after the sampling data is received, to confirm the data. Should the Permittee choose not to resample, DEP will consider the water quality analysis as representative of current ground water conditions at the facility. If the data is confirmed, or if the

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Permittee chooses not to resample, the Permittee shall notify DEP in writing within 14 days of this finding. The Permittee shall then implement Evaluation Monitoring in accordance with Rule 62-701.510(7), F.A.C., and the time frames therein.

If, at any time, groundwater standards and/or criteria are exceeded in any compliance well, the Permittee shall commence a site assessment within 60 days after a discharge is discovered. For purposes of a site assessment, commence means the Permittee has employed or contracted with a professional engineer or geologist to design, implement, and complete the requirements of Rule 62-780.600, F.A.C., and has given the professional the authority to proceed with the required work. The Permittee shall conduct the site assessment in accordance with the requirements of Rule 62-780, F.A.C. and the time frames specified in Table A of that Rule or with the Cleanup Agreement Document, if applicable. The Permittee shall submit two copies of the Site Assessment Report to DEP within 270 days for review.

- p. Compliance with groundwater standards and/or criteria shall be determined by analysis of unfiltered or settled groundwater samples.
- q. F.A.C., Rule 62-520.600(3)(k) requires that the groundwater monitoring program must inventory and map surface waters within one mile of the landfill. If there are any modifications to the surface waters within one mile of the landfill, the Permittee shall, upon request, submit to DEP a revised inventory and map of surface waters within 90 days.
- r. F.A.C., Rule 62-520.600(3)(g) requires an inventory and map of all wells within a one mile radius of the landfill, including the owners' names and addresses, well locations, well specifications (well depth, diameter, screened interval, capacity, etc.) and utilization. If there are any changes to the well inventory, the Permittee shall, upon request, revise the well inventory and shall submit the revised inventory to DEP within 90 days.
- s. The Permittee shall monitor the data obtained from the leachate, ground, and surface water monitoring system, and the site-specific conditions. A report shall be submitted every two years to DEP by the Permittee in accordance with F.A.C., Chapter 62-701. In addition, it shall include a graphic plot of analytical laboratory data over time for the leachate and surface water sampling parameters. Evaluation of the adequacy of the monitoring frequency and analyses shall include the surface water and leachate monitoring programs. The Permittee shall have this report prepared and sealed by a

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qualified groundwater professional and submit this information by September 30, 2011 and September 30, 2013.

46. **Surface Water Monitoring.** In accordance with F.A.C., Rule 62-701.510(6), surface water monitoring is required on a semi-annual basis in conjunction with the groundwater monitoring schedule. The following Surface Water Monitoring Program shall sampled and analyzed in conjunction with the sampling program required for the groundwater monitoring system.

a. The Surface Water Monitoring System shall be designed and operated in accordance with plans submitted to DEP, as modified by the conditions specified in this permit. If the wet detention pond is discharging, the sampling location shall be at the point of discharge. If discharge is not occurring at the time of sampling, surface water samples shall be collected from the approximate center of the wet detention pond. Samples shall be collected in conjunction with the groundwater monitoring sampling.

b. The surface water monitoring sites shall be located as follows:

<u>SITE NUMBER</u>	<u>LOCATION</u>
SW-1	As indicated in Attachment 8
SW-2	As indicated in Attachment 8
SW-3	As indicated in Attachment 8 (at the discharge, if actively discharging or at the center of the pond if no discharge)

c. All surface water sampling sites shall be sampled and analyzed on a semi-annual basis for the parameters listed in Attachment 9. However, additional sampling sites and parameters may be required based upon subsequent analyses. The results shall be reported in accordance with Specific Condition 45.k. and submitted with the groundwater monitoring reports.

d. Additional sampling sites and parameters may be required based on the analysis.

e. The Permittee shall ensure that the surface water discharged shall not exceed quality standards for drinking water or surface water. If at any time water standards and/or criteria are exceeded, the Permittee shall immediately notify DEP by telephone whenever a serious problem occurs at this Facility. Within seven days of telephone notification, the Permittee shall submit to DEP a written report explaining the extent of



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the problem, its cause, and what actions have been or will be taken to correct the problem.

47. **Stormwater Management System.** The stormwater management system consists of: swales, terraces, downcomers, perimeter drainage ditches and culverts, inlet and outlet structures, and a wet detention pond. The operation and maintenance of the stormwater management system shall be as set forth in the plans, specifications, and approved by this permit.
- a. **Installation.** Installation of terraces, inlets, temporary and permanent downcomers, outlets, stormwater management ditches, culverts, and discharge structures shall coincide with the construction of individual phases in accordance with the Filling Sequence Plan. Dimensions and slopes of these components of the stormwater management system shall be in accordance with the design drawings provided with Document 4.
  - b. **Operational Maintenance.** The following operational maintenance activities shall be performed on all permitted systems on a regular basis or as needed:
    - 1) Removal of trash and debris from inlet grates and culvert inlets;
    - 2) Inspection of inlets and outlets. Culverts and pipe inlets and outlets shall be de-silted at least quarterly and as necessary to prevent blockage;
    - 3) Removal of sediments when the storage volume or conveyance capacity of the system is below design level and/or when the system is rendered ineffective on account of clogging/sedimentation of the pond bottom;
    - 4) Stabilization and restoration of eroded areas;
    - 5) Mowing and removal of grass clippings; and
    - 6) Aeration, tilling, or replacement of topsoil as needed to restore percolation capability of the system.
  - c. **Inspections.** The Permittee shall inspect drainage structures, including terraces, inlets, downcomers, outlets, ditches, stormwater management culverts and structures on a weekly basis and after all major storm events (e.g., a half-inch rainfall event). Ditches and terraces shall be maintained free of debris that could impede the free flow of water

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through the conveyance. Any and all breaches of the system's integrity shall be immediately repaired. Any and all non-functioning pipes shall be repaired within 14 days. Whenever erosion is detected, measures shall be taken to stabilize, restore, and protect affected areas within three days.

- d. **Functional Deficiency.** If the stormwater management system is not functioning as designed and permitted, operational maintenance must be performed immediately to restore the system. If operational maintenance measures are insufficient to enable the system to meet the design standards, the Permittee must either replace the system or construct an alternative design. In such a case, the Permittee must submit a permit modification application within sixty days of the date the system was determined to be design deficient.
  - e. **Best Management Practices.** The Permittee is responsible for the selection, implementation, and operation of all erosion and sediment controls on-site and to prevent violations of water quality standards in Chapters 62-302, 62-4, 40C-4, 40C-40, 40C-41, and 40C-42, F.A.C., and Chapters 373 and 403, F.S. The Permittee is encouraged to use the appropriate Best Management Practices described in the Florida Land Development Manual: A guide to Sound Land and Water Management (DER, 1988). All wetland areas or water bodies which are outside of the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring, or excess turbidity and dewatering. Turbidity barriers shall be installed at all locations where the possibility of transferring suspended solids into the receiving water body exists due to the proposed work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. The Permittee shall be responsible for the removal of the barriers.
48. **Irrigation System for Wetlands.** After treatment in the wet detention pond, stormwater is discharged through a perforated spreader pipe around the perimeter of the stormwater management basin to existing wetlands. This wetland irrigation system shall, at a minimum, be inspected by the Permittee once per quarter.
- a. **Operation and Maintenance.** The Permittee shall continue to maintain and operate the irrigation system for wetlands adjacent to the pond berm that was installed to mitigate any potential effects to the natural hydroperiod of the adjacent wetland as a result of hydrologic drawdown caused by the stormwater pond. The irrigation system, which extends along the southern and eastern most edges of the pond berm and along a portion of the northern edge of the pond berm, is shown in Attachment 10.

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- b. Erosion Control. The Permittee shall take all appropriate measures to ensure that the wetland irrigation system (i.e., the stormwater discharge system) does not cause erosion into any wetland area during construction and operation.
- c. Reporting. On an annual basis, the wet detention and the wetland irrigation systems, including the pumping system that is used to facilitate stormwater treatment and irrigation of the adjacent wetlands, shall be inspected by a registered Florida Professional Engineer. This inspection shall demonstrate that the stormwater management system is operating as designed and the discharge rate for the wet detention pond is within the allowable permitted range of between 2.11cfs (947 GPM) and 2.50 cfs (1,122 GPM). A signed and sealed report certifying that the systems are functioning as designed shall be submitted to the DEP's Stormwater Engineer at 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7590 by December 31 of each year.

**GENERAL CONDITIONS:**

- 1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, FS. The permittee is placed on notice that DEP will review this permit periodically and may initiate enforcement action for any violation of these conditions.
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by DEP.
- 3. As provided in subsections 403.987(6) and 403.722(5), FS, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other DEP permit that may be required for other aspects of the total project which are not addressed in this permit.
- 4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from

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the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from Department.
6. The permittee shall properly operate and maintain the Facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
  - (a) Have access to and copy any records that must be kept under conditions of the permit;
  - (b) Inspect the Facility, Equipment, practices, or operations regulated or required under this permit; and
  - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide Department with the following information:
  - (a) A description of and cause of noncompliance; and

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- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by Department for penalties or for revocation of this permit.
- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to Department may be used by Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- 10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
- 11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300 F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by Department.
- 12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
- 13. This permit also constitutes:
  - ( ) Determination of Best Available Control Technology (BACT).
  - ( ) Determination of Prevention of Significant Deterioration (PSD).
  - (x) Certification of compliance with state Water Quality Standards (Section 401, PL 92-500).
  - ( ) Compliance with New Source Performance Standards.

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14. The permittee shall comply with the following:

- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by Department.
- (b) The permittee shall hold at the Facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- (c) Records of monitoring information shall include:
  - 1. The date, exact place, and time of sampling or measurements;
  - 2. The person responsible for performing the sampling or measurements;
  - 3. The dates analyses were performed;
  - 4. The person responsible for performing the analyses;
  - 5. The analytical techniques or methods used; and
  - 6. The results of such analyses.

15. When requested by Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to Department, such facts or information shall be corrected promptly.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Michael J. Fitzsimmons  
Waste Program Administrator

ELK

**TRAIL RIDGE LANDFILL  
REQUIRED PERSONNEL MATRIX**

Time	3000 Tons / Day				3500 Tons / Day				4000 Tons / Day			
	Spotters Required	Laborers Required	Equip. Op. Required	Equip. Op. Required	Spotters Required	Laborers Required	Equip. Op. Required	Equip. Op. Required	Spotters Required	Laborers Required	Equip. Op. Required	Equip. Op. Required
6:00 - 7:00 AM	2.0	2.0	3.0	3.0	2.0	2.0	2.0	3.0	2.0	3.0	3.0	3.0
7:00 - 10:00 AM	1.0	2.0	2.0	2.0	1.0	2.0	2.0	2.0	1.0	2.0	2.0	2.0
10:00 AM - 3:00 PM	1.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	2.0	3.0	3.0	3.0
3:00 - 5:00 PM	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.0	2.0	2.0	2.0
5:00 - 7:00 PM	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Time	4500 Tons / Day				5000 Tons / Day			
	Spotters Required	Laborers Required	Equip. Op. Required	Equip. Op. Required	Spotters Required	Laborers Required	Equip. Op. Required	Equip. Op. Required
6:00 - 7:00 AM	2.0	3.0	4.0	4.0	2.0	3.0	4.0	4.0
7:00 - 10:00 AM	1.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0
10:00 AM - 3:00 PM	2.0	3.0	3.0	3.0	2.0	3.0	4.0	4.0
3:00 - 5:00 PM	1.0	2.0	2.0	2.0	1.0	2.0	2.0	2.0
5:00 - 7:00 PM	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Trail Ridge Landfill  
Landfill Inspection Checklist

Name of Inspector: _____ Date of Inspection: _____			
If answered yes, attach additional comment pages or site plan as needed.			
<b>Section A: Fencing and Security</b>	Yes	No	Not Applicable
1. Damage to fences, gates, or locks	_____	_____	_____
2. Gates unlocked/locks missing	_____	_____	_____
3. Signs of forced entry detected	_____	_____	_____
<b>Section B: Access Roads</b>	Yes	No	Not Applicable
1. Access and site roads in poor condition	_____	_____	_____
<b>Section C: Final Cover System</b>	Yes	No	Not Applicable
1. Settlement of cover	_____	_____	_____
2. Evidence of erosion, cracks, gullies	_____	_____	_____
3. Holes or damage to cover	_____	_____	_____
4. Patches of dead grass on cover	_____	_____	_____
5. Evidence of leachate seeps	_____	_____	_____
6. Impacts due to settlement	_____	_____	_____
7. Ponding of water in terraces	_____	_____	_____
<b>Section D: Gas Management System</b>	Yes	No	Not Applicable
1. Visible damage to system components	_____	_____	_____
2. Excessive release of odors	_____	_____	_____
3. Gas flare operating	_____	_____	_____



# Trail Ridge Landfill Landfill Inspection Checklist

Section E: Stormwater Management System		Yes	No	Not Applicable
1.	Ponding of water	_____	_____	_____
2.	Excessive silting due to lack of vegetation	_____	_____	_____
3.	Inlets repair required	_____	_____	_____
4.	Perimeter ditch or swale	_____	_____	_____
5.	Retention pond damage	_____	_____	_____
6.	Downcomer pipe repair required	_____	_____	_____
7.	Leachate breakouts affecting water quality	_____	_____	_____
8.	Ditches/Inlets/Culverts need cleaning	_____	_____	_____

Section F: Monitoring Devices		Yes	No	Not Applicable
1.	Damage to groundwater monitoring wells	_____	_____	_____
2.	Damage to gas wells	_____	_____	_____
3.	Locks missing	_____	_____	_____
4.	Damage to gas monitor probes	_____	_____	_____

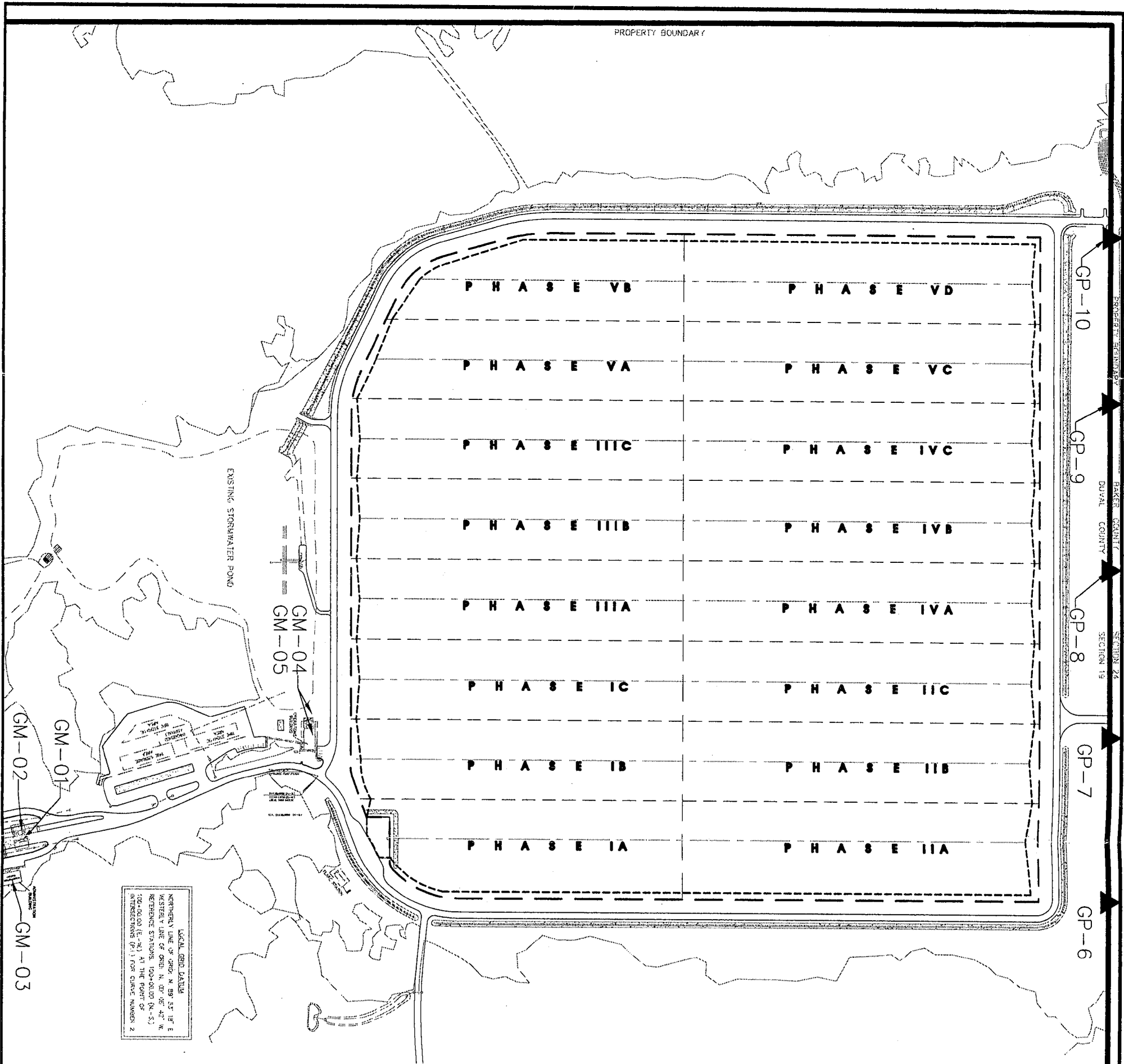
Section G: Leachate Collection and Storage		Yes	No	Not Applicable
1.	Leachate pumps operating	_____	_____	_____
2.	Leachate flow meters operating	_____	_____	_____
3.	Leachate control panels operating	_____	_____	_____
4.	Control panel alarms operating	_____	_____	_____
5.	Leachate storage tanks leaking	_____	_____	_____
6.	Leachate containment area leaking	_____	_____	_____

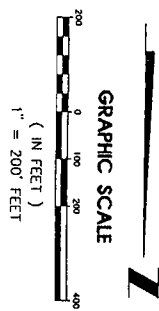
Section H: Active Area		Yes	No	Not Applicable
1.	Graded to provide drainage	_____	_____	_____
2.	Leachate/stormwater ponding	_____	_____	_____
3.	Any hot spots?	_____	_____	_____
4.	Erosion of intermediate and/or initial cover	_____	_____	_____

Signature of Inspector: _____		Date: _____
-------------------------------	--	-------------



LOCAL GRID DATA  
 NORTHERLY LINE OF GRID: N 89° 57' 18" E  
 WESTERLY LINE OF GRID: N 87° 00' 47" W  
 REFERENCE STATIONS: 100-55-20 (R-52)  
 100-55-23 (R-52) AT THE POINT OF  
 INTERSECTION (P) FOR CURVE NUMBER 2



LEGEND	
	GAS PROBE
GP-10	GAS PROBE NUMBER
GM-04	GAS MONITORING LOCATION

ATTACHMENT 3

# PERMIT DOCUMENT

<p>1 OF 1</p>	<p><b>England • Thimby &amp; Miller, Inc.</b>          ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS          14775 OLD ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32258          CERTIFICATE OF AUTHORIZATION NUMBER: 2584          PHONE NUMBER (904) 642-8990 FAX NUMBER (904) 648-9485</p>	<p><b>GAS PROBE MONITORING PLAN</b></p>		<p>ETM NO. E 07-044-01          DRAWN BY: S. Lockwood          DESIGNED BY: J. Clem          CHECKED BY: J. Clem          DATE: September 25, 2002</p>	<p>REVISIONS:          9-15-08 GENERAL REVISIONS.</p>	<p>PLANS PREPARED UNDER THE          DIRECTION OF:          JUANITTA BADER, CLEM, P.E.          P.E. NO. 43245</p>
		<p><b>TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL          FOR          TRAIL RIDGE LANDFILL, INC.</b></p>				

**GUIDANCE FOR SUBMITTING  
ELECTRONIC WATER QUALITY DATA  
TO THE SOLID WASTE PROGRAM**

April 7, 2009

I. General Information

Water quality monitoring reports and all ground water, surface water and leachate analytical results for the Solid Waste Program shall be submitted to the Department electronically on compact disc or flash drive media readable by Microsoft Windows. Water quality monitoring reports shall be submitted in Adobe pdf format. Unless otherwise approved by the Department, the water quality Electronic Data Deliverable (EDD) shall be compatible with software called Florida DEP Automated Data Processing Tool (ADaPT). ADaPT<sup>1</sup> has been developed to evaluate and upload water quality data into the Department's Water Assurance Compliance System (WACS) database. A copy of this ADaPT software with installation instructions and EDD specifications can be downloaded from the following website address:

<ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT/>

II. Monitoring Report

The monitoring report shall be submitted in Adobe pdf format, with the EDD as an attachment, and shall include the following items:

1. Cover letter ;
2. Summary of exceedances and recommendations;
3. Ground water contour maps;
4. Chain of custody forms;
5. Water levels, water elevation table;
6. Ground Water Monitoring Report Certification, using the appropriate Department form;
7. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01); and,
8. Laboratory and Field EDDs that are compatible with ADaPT software and the ADaPT error log(s).

The monitoring report shall be sent both to:

Florida Department of Environmental Protection  
[District name] District Office  
[address]  
[city], Florida [zip code]

---

<sup>1</sup> The Department recognizes that many laboratories have been using software called Validator to prepare the water quality data EDDs for solid waste facilities. In the event ADaPT is not available or a laboratory preparing the EDDs has not yet transitioned to ADaPT, then Validator may continue to be used to prepare the EDDs for submittal to the Department. However, the laboratory should transition to ADaPT as soon as possible since at some date in the future Validator will no longer be supported and become obsolete.

And to:

Florida Department of Environmental Protection  
Solid Waste Section  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida, 32399-2400

### III. ADaPT EDDs

The ADaPT EDD consists of two electronic deliverables: (1) a Laboratory EDD, identified as swldd.txt; and (2) a Field EDD identified as swfdd.txt. The format for the Laboratory EDD and the Field EDD are described below. In addition, as explained in Section V, a copy of the Laboratory EDD shall be prepared in Adobe Portable Document Format (PDF) file by the laboratory.

The Laboratory EDD shall be submitted in a comma separated (.csv format) text file which can be produced through Excel. The Laboratory EDD file name format shall be: WACS Facility I.D. underscore Begin Sampling Date (yyyymm) underscore swldd.txt. The period at the end would not be included. For example, with WACS Facility I.D.# 12345 where sampling started in November and ended in December of 2008, the Laboratory EDD file name should be: 12345\_200811\_swldd.txt

The Field EDD shall be submitted in the same comma separated (.csv format) text file as the Laboratory EDD. The Field EDD file name format shall be: WACS Facility I.D. underscore Begin Sampling Date (yyyymm) underscore swfdd.txt. Again, the period at the end is not included. For example, with WACS Facility I.D.# 12345 where sampling started in November and ended in December of 2008, the file name should be: 12345\_200811\_swfdd.txt

For confirmation sampling, add the term \_conf to the EDD filenames as follows:  
12345\_200811\_conf\_swldd.txt for the Laboratory EDD or  
12345\_200811\_conf\_swfdd.txt for the Field EDD.

For data that is resubmitted, add \_#, where # is the number of data submittals (greater than 1). For example, if the data was resubmitted for the first time, and was thus submittal number 2, then the EDD filenames would be as follows:  
12345\_200811\_2\_swldd.txt for the Laboratory EDD and 12345\_200811\_2\_swfdd.txt for the Field EDD.

Finally, taking this to an extreme, if conformation data was resubmitted for say the 10<sup>th</sup> time, then the EDD filenames would be: 12345\_200811\_conf\_10\_swldd.txt for the Laboratory EDD or 12345\_200811\_conf\_10\_swfdd.txt for the Field EDD.

### IV. Signatures Required

Water quality monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological

investigations. A sealed signature page may be submitted with the report provided that the seal is legible (gray the embossed seal and scan). Otherwise, you must separately mail the sealed and signed page.

#### V. Process Required

Three steps are generally required. First, two copies of the Laboratory EDD, one in comma separated text format and one as a PDF file, must be submitted by the laboratory. A digitally "signed" PDF copy<sup>2</sup> by the laboratory serves to maintain the integrity of the Laboratory EDD. In order to validate the QA/QC aspects of the Laboratory EDD, the permittee shall ensure the laboratory processes the Laboratory EDD through ADaPT using both their laboratory specific library and the Department's Solid Waste Master library and corrects all critical errors and explains all non-critical errors prior to submittal. Second, the appropriate entity (laboratory, consultant, or permittee) shall process the Field EDD through ADaPT using the Department's Solid Waste Master library and correct all critical errors and explain all non-critical errors prior to submittal. Finally, as a completeness check, the permittee or consultant shall process both the Laboratory EDD and the Field EDD through ADaPT and confirm a successful export to disk prior to submitting the Laboratory EDD, Field EDD and ADaPT error log(s) to the Department.

#### VI. Resources

In the event help is needed to prepare these EDDs, you can contact the Department's Solid Waste staff at the appropriate District office. The information for the Department's District offices is as follows:

Northwest District Office  
160 Governmental Center, Room 308  
Pensacola, Florida 32502  
(850) 595-8300

Northeast District Office  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256  
(904) 807-3300

Southwest District Office  
13051 N. Telecom Parkway  
Temple Terrace, Florida 33637  
(813) 632-7600

Central District Office  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803  
(407) 894-7555

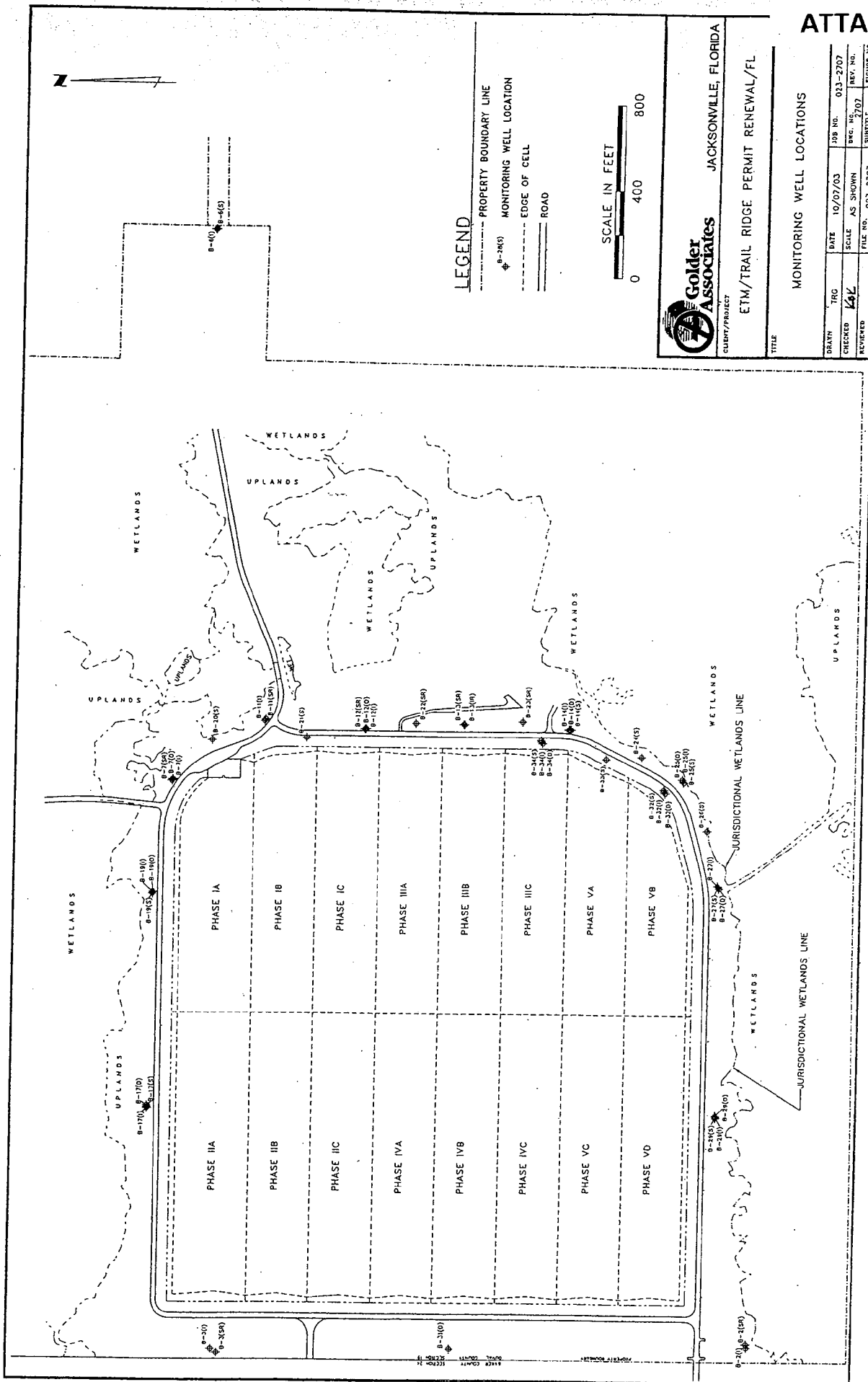
South District Office  
P.O. Box 2549  
2295 Victoria Avenue, Suite 364  
Fort Myers, Florida 33901  
(239) 332-6975

Southeast District Office  
400 North Congress Avenue, Suite 200  
West Palm Beach, Florida 33401  
(561) 681-6600

You can also receive help by contacting Mr. Clark Moore (850-245-8739) or Mr. Lee Martin (850-245-8734) in Tallahassee.

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<sup>2</sup> This would be a read only file.



SEMI-ANNUAL PARAMETERS

Field Parameters

Static water level in wells  
Specific conductivity  
pH  
Dissolved oxygen  
Turbidity  
Temperature  
Colors and sheens (by observation)

Laboratory Parameters

Total ammonia - N  
Chlorides  
Iron  
Mercury  
Nitrate  
Sodium  
Total Dissolved Solids  
(TDS)  
Those parameters listed in  
40 CFR Part 258 Appendix I

BACKGROUND PARAMETERS

Field Parameters

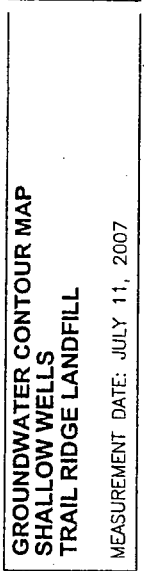
Static water level in wells  
Specific conductivity  
pH  
Dissolved oxygen  
Turbidity  
Temperature  
Colors and sheens (by observation)

Laboratory Parameters

Total ammonia - N  
Chlorides  
Iron  
Mercury  
Nitrate  
Sodium  
Total Dissolved Solids  
(TDS)  
Those parameters listed in  
40 CFR Part 258 Appendices  
I and II



DATE	SEPT 07
FIGURE	FIG 1



DEP002901

## SURFACE WATER PARAMETERS

## Field Parameters

Specific conductivity  
pH  
Dissolved oxygen  
Turbidity  
Temperature  
Colors and sheens (by observation)

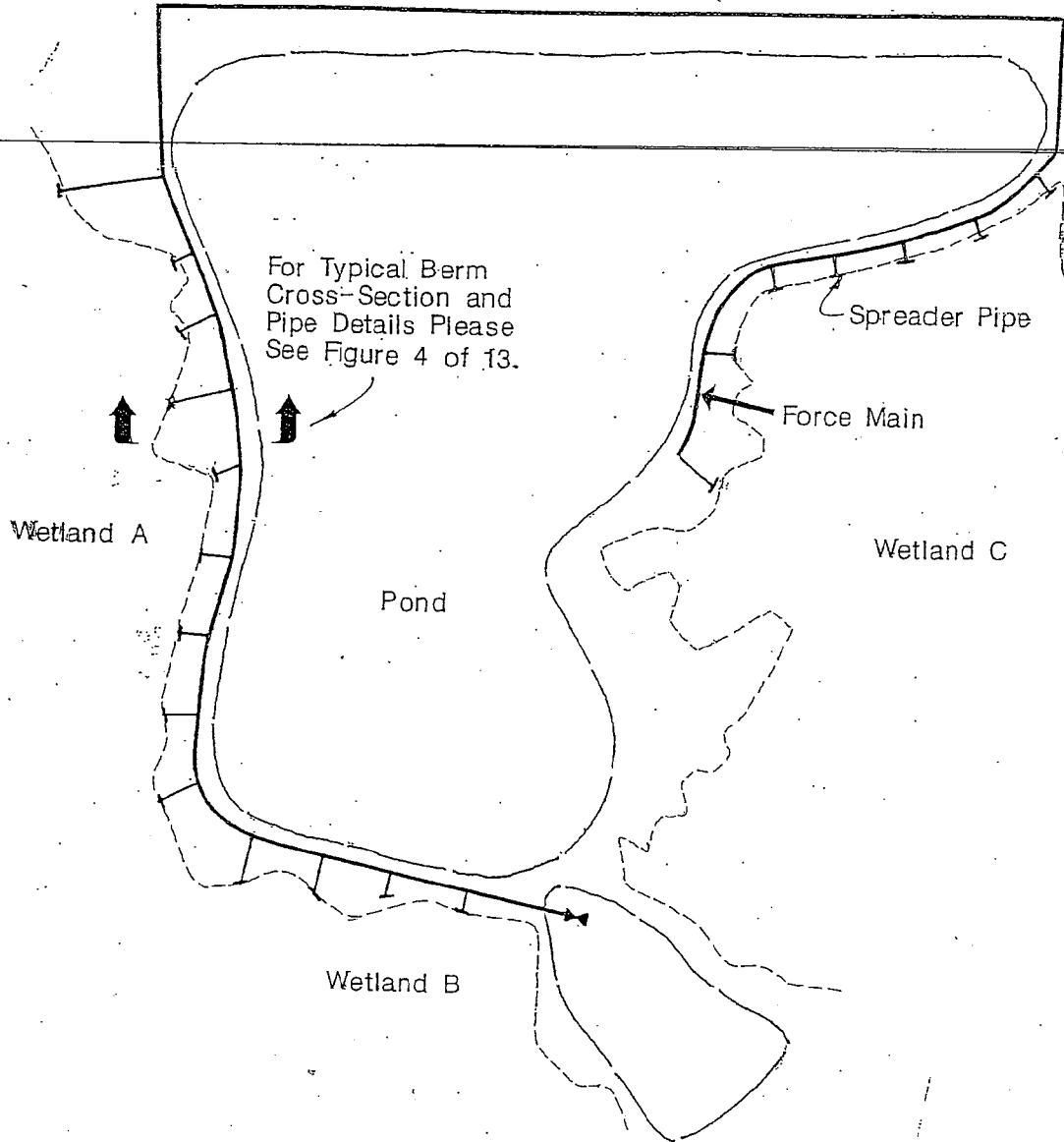
## Laboratory Parameters

Unionized ammonia N  
Total hardness  
Biochemical oxygen  
demand (BOD5)  
Copper  
Iron  
Mercury  
Nitrate  
Zinc  
Total dissolved solids  
(TDS)  
Total organic carbon  
(TOC)  
Fecal Coliform  
Total phosphates  
Chlorophyll A  
Total Nitrogen  
Chemical oxygen demand  
(COD)  
Total suspended solids  
(TSS)  
Those parameters listed in  
40 CFR Part 258 Appendix I



ENVIRONMENTAL  
SERVICES, INC.

Trail Ridge Landfill  
Jacksonville, Florida



Detailed Plan View of  
Wetland Irrigation System

Project No.	EJ02131.00
Date	September 2002
Figure No.	3



**ID:****331966**This ID is read by a scanner.  
Do not mark.**DWM Preindex Coversheet**

ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

**Submittal Data**Catalog **Solid Waste**Profile **Permitting\_Authorization**County **DUVAL**Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**Document Date **09-16-2009**Received Date **09-16-2009**Document\_Type **PERMIT ISSUED-DENIED RELATED**

Contractor ID

Facility Type **CLASS I LANDFILL (100)**Document Subject **Notice of Permit along with the Final Permit**

There are supplemental indexes to this document

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

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

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

bogin\_m 

Date 9/17/09

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## DWM Supplemental Data

THIS SHEET SHOULD NOT BE SCANNED. IT IS ONLY  
HERE TO CONFIRM THE SUPPLEMENTAL DATA

### Supplemental 1

Catalog **Solid Waste**

Profile **Permitting\_Authorization**

County **DUVAL**

Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**

Document Date **09-16-2009**

Received Date **09-16-2009**

Document\_Type **PERMIT ISSUED-DENIED RELATED**

Contractor ID

Facility Type **WASTE TIRE PROCESSING FACILITY (710)**

Document Subject **Notice of Permit along with the Final Permit**

**Bogin, Michael**

---

**From:** Raulerson, Emerson  
**Sent:** Tuesday, November 04, 2008 6:13 PM  
**To:** Bogin, Michael  
**Subject:** FW: TRLF - MSSW Modification  
**Attachments:** AR-M550N\_20081105\_005400.pdf

---

**From:** Juanitta Clem [mailto:ClemJ@etm-inc.com]  
**Sent:** Tuesday, November 04, 2008 12:13 PM  
**To:** Raulerson, Emerson  
**Subject:** TRLF - MSSW Modification

Dear Emerson:

Please see the attached copy of the MSSW modification to wet detention for Trail Ridge Landfill. I was wrong, this was handled by David Apple. I hope this will be helpful.

**Juanitta Clem**

Principal/P.E.



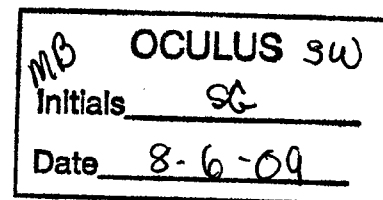
Direct: 904-265-3181 Fax: 904-646-9485

Cell: 904-710-3162 Email: [ClemJ@etm-inc.com](mailto:ClemJ@etm-inc.com)

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

---





# Department of Environmental Protection

RECEIVED  
DEC 20 1996

Lawton Chiles  
Governor

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

ENGLAND-THIMS, MILLER  
Sunshine State Surveyors  
Secretary

December 19, 1996

## CERTIFIED - RETURN RECEIPT

Trail Ridge Landfill, Inc.  
Mr. Greg Mathes  
General Manager & Division President  
5110 U.S. Highway 301  
Baldwin, Florida 32234

RECEIVED  
DEC 20 1996

ENGLAND-THIMS, MILLER  
Sunshine State Surveyors

Dear Mr. Mathes:

RE: Trail Ridge Landfill  
Duval County  
Modification No. MS16-296691 to Solid Waste Permit SC16-184444  
(MSSW Stormwater Section)

Your request to modify this permit has been received and reviewed by Department staff. The modification consists of reconfiguring the existing stormwater pond from an existing filtration treatment system to a wet detention system. The landfill's stormwater pond will no longer utilize the existing filter drain system used for achieving water quality treatment of stormwater. The pond will be converted over to a wet detention system. All water quality treatment for the contributing drainage areas will occur in the wet detention stormwater system (existing pond). Currently, two existing 12 inch PVC header pipes (part of the filter drain system located in the pond) convey water through the filter treatment system to stormwater pumps. These existing 12 inch PVC header pipes will be modified by having 12 inch PVC pipe extensions and 90" elbows added. The invert of the new pipes will then be set at elevation  $95.0 \pm$  feet NVGD. The existing 12 inch PVC header pipes will continue to be connected to existing stormwater pumps. The pumps will have their flow rates adjusted to between 2.50 cfs (1122.0 gpm) and 2.11 cfs (947.0 gpm) to meet the 48 to 60 hour draw down rate. The pumps will control the flow of stormwater out of the pond to facilitate the discharge of stormwater to meet water quality requirements.

See Staff Report Exhibit One

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Printed on recycled paper.

DEP002907

Mr. Greg Mathes  
Trail Ridge Landfill, Inc.  
December 19, 1996  
Page Two

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

This Notice of Modification does not alter the expiration date, the Specific Conditions or General Conditions, or monitoring requirements of the original permit unless so indicated specifically in this modification. ***This modification expiration date will be 2 years from the date of issue, December 19, 1998.*** The following Specific Conditions shall also apply:

2. All construction, operation, and maintenance of the stormwater system shall be as set forth in the plans, specifications, and performance criteria contained in the Department file and approved by this permit. Any deviation from the permitted plans are to be addressed by the department prior to their implementation to determine if a modification to the permit is required.
3. Turbidity barriers shall be installed at all locations where the possibility of transferring suspended solids into the receiving water body exists due to the proposed work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. The Permittee shall be responsible for the removal of the barriers.
6. All disturbed areas, swales, retention/detention basin side slopes, and roadside slopes must be sodded or seeded and mulched within 30 days following their completion and a substantial vegetation cover must be established within 60 days of seeding. Erosion preventive measures must be taken to ensure establishment of vegetative cover. All critical slopes immediately above the detention/retention basin must be seeded, mulched, or sodded as required for preventing sedimentation or clogging of the detention/retention basin.
7. The Permittee must obtain an individual permit pursuant to 40C-4 F.A.C. prior to beginning construction of any work not authorized by this permit.
8. The Permittee shall provide the Northeast District Office of DEP with prior written notice within 30 days of the date the work authorized by this permit is to commence.
9. Department of Environmental Protection staff, upon proper identification, shall have permission to enter, inspect, and observe the system to insure conformity with the plans and specifications approved by this permit.



Mr. Greg Mathes  
Trail Ridge Landfill, Inc.  
December 19, 1996  
Page Three

11. All wetland areas or water bodies which are outside of the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring, or excess turbidity and dewatering.
13. Each inspection shall be documented and kept on file at the facility office. Each inspection report shall contain, as a minimum; date, name of inspector, as found condition of major system features, and nature and extent of maintenance/repair performed.
15. The stormwater management system shall be inspected on a regular basis. Any breach of stormwater system integrity shall be immediately repaired. Inlets and outlets shall be inspected for signs of erosion. Whenever erosion is detected, measures shall be taken to stabilize and protect the affected area. Debris, trash, etc. shall be removed from basins and control structures. Sediment removal will be undertaken when storage volume or conveyance capacity falls below design capacity. The system shall be inspected at each mowing or grading or once per month minimum.
17. If any other regulatory agency should require revisions or modification to the permitted project, the Department is to be notified of the revisions prior to any implementation of such revisions so that a determination can be made whether a permit modification is required.
18. The Permittee is responsible for the selection, implementation, and operation of all erosion and sediment controls on-site and to prevent violations of water quality standards in Chapters 62-3 and 62-4, F.A.C. The Permittee is encouraged to use the appropriate Best Management Practices described in the Florida Land Development Manual: A guide to Sound Land and Water Management (DER, 1988).
22. The operation phase of the stormwater management system shall not become effective until the following criteria have been met:
  - (a) Within thirty (30) days after completion of construction, permittee shall submit a signed and sealed certification by an appropriate registered Florida professional engineer that the system has been constructed and is ready for inspection.

Mr. Greg Mathes  
Trail Ridge Landfill, Inc.  
December 19, 1996  
Page Four

- (b) The registered professional engineer shall certify that the system has been constructed substantially in accordance with approved plans and specifications; or any deviations from the plans will not prevent system from functioning in compliance with appropriate regulation.
  - (c) As-built drawings will be furnished and revised to reflect any changes made during construction. The following information, at a minimum shall be verified on the as-built drawings:
    - 1. Dimensions and elevations of all discharge structures.
    - 2. Locations, dimensions, and elevation of all underdrain systems including cleanouts, connections to control structures, and points of discharge to receiving waters.
    - 3. Dimensions, elevations, contours or cross sections of all treatment storage areas.
    - 4. Dimensions, elevations, contours, final grades to determine flow direction and runoff.
    - 5. Establishment of erosion control vegetative cover in critical slopes above the detention/retention ponds.
  - (d) The permit will be converted from a construction permit to an operation permit once the project is determined to be in compliance with the permitted plans and appropriate entity has accepted responsibility for maintenance of the system.
23. The following operational maintenance activities shall be performed on all permitted systems on a regular basis or as needed:
- (a) Removal of trash and debris.
  - (b) Inspection of inlets and outlets.
  - (c) Removal of sediments when the storage volume or conveyance capacity of the system is below design level or when the system is rendered ineffective on account of clogging/sedimentation of the pond bottoms.

Mr. Greg Mathes  
Trail Ridge Landfill, Inc.  
December 19, 1996  
Page Five

- (d) Stabilization and restoration of eroded areas.
- (e) Mowing and removal of grass clippings.
- (f) Aeration, tilling or replacement of topsoil as needed to restore percolation capability of the system.
- (g) Replanting if vegetative cover in littoral zones falls below 80% coverage.

The stormwater management system shall be inspected after each heavy rain, but at a minimum once per quarter.

24. The permittee is required to provide for periodic inspections of the stormwater management system. The permittee shall submit reports to the Department certifying that the stormwater management system is operating as designed. The reports shall be submitted to the Department as follows:

- (a) Inspection reports for retention, underdrain, wet detention (with/without littoral shelf), and swales shall be submitted one year after completion of construction and every year thereafter. A registered Florida Professional Engineer must sign and seal the report certifying the system is functioning as designed.
- (b) Inspection reports for filtration treatment systems and pumped systems shall be submitted one year after completion of construction and every year thereafter. A registered Florida Professional Engineer must sign and seal the report certifying the filtration treatment system and/or pumped system is operating as designed.
- (c) The Reports shall be submitted to the Department's Stormwater Engineer at 7825 Baymeadows Way, Suite B-200, Jacksonville, FL 32256-7590.

This letter must be attached to the original permit.

This letter constitutes final agency action unless a person substantially affected by this action requests an administrative hearing pursuant to Section 120.57, Florida Statutes. The petition must be filed within fourteen (14) days from receipt of this letter. The petition must comply with the requirements of Florida Administrative Code Rule 28-5.201 and be filed pursuant to Rule 17-103.155(1) in the Office of General Counsel of the

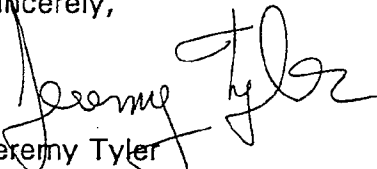
Mr. Greg Mathes  
Trail Ridge Landfill, Inc.  
December 19, 1996  
Page Six

Department of Environmental Protection at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions which are not filed in accordance with the above provisions will not be accepted by the Department. If a formal hearing pursuant to Section 120.57(1), is requested, at such formal hearing all parties shall have an opportunity to respond, to present evidence and argument on all issues involved, to conduct cross-examination of witnesses and submit rebuttal evidence, to submit proposed findings of facts and order, to file exceptions to any order or hearing officer's recommended order, and to be represented by counsel. If an informal proceeding is requested, the agency will, in accordance with its rules of procedure, give affected persons or parties or their counsel an opportunity, at a convenient time and place, to present to the agency or hearing officer, written or oral evidence in opposition to the agency's action or refusal to act, or a written statement challenging the grounds upon which the agency has chosen to justify its action or inaction, pursuant to Section 120.57(2), Florida Statutes. The hearing process is designed to formulate agency action. Accordingly, the Department's final action as a result of a hearing may be different from the position taken by it in this stage. Therefore, any person who may wish to contest the Department's ultimate permitting decision must petition for a hearing within the fourteen day period described above.

Failure to file a request for a hearing within this time period shall constitute a waiver of any right such person may have to request a hearing under Section 120.57, Florida Statutes.

If you have any questions about this matter, please contact David P. Apple, P.E., Stormwater Permitting Manager, at the letterhead address or telephone (904) 448-4340, extension 377.

Sincerely,

  
Jeremy Tyler  
Environmental Administrator  
Environmental Resource

Permitting  
JT/da/lgb

cc: Mary Nogas, Solid Waste Section, DEP  
Juanitta Clem, England, Thims & Miller, Inc.

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
NORTHEAST DISTRICT OFFICE  
STORMWATER MANAGEMENT STAFF REVIEW SUMMARY**

**I. ADMINISTRATIVE**

<b>PROJECT NAME:</b>	Trail Ridge Landfill - City of Jacksonville
<b>APPLICATION NUMBER:</b>	296691
<b>DATE RECEIVED:</b>	October 28, 1996
<b>COMPLETENESS DATE:</b>	October 28, 1996
<b>LAST DATE FOR ACTION:</b>	January 25, 1997
 <b>APPLICANT'S NAME:</b>	 Trail Ridge Landfill, Inc. Greg Mathes General Manager & Division President
<b>APPLICANT'S ADDRESS:</b>	5110 U.S. Highway 301 Baldwin, Florida 32234
<b>APPLICANT'S TELEPHONE NO.:</b>	(904) 298-9100
 <b>OWNER'S NAME:</b>	 City of Jacksonville Department of Public Utilities
<b>OWNER'S ADDRESS:</b>	515 North Laura Street Jacksonville, Florida 32202
<b>OWNER'S TELEPHONE NO.:</b>	(904) 632-8081
 <b>ENGINEER'S NAME:</b>	 Juanitta Bader Clem, P.E.
<b>ENGINEERING FIRM'S NAME:</b>	England, Thims & Miller, Inc. 3131 St. Johns Bluff Road South Jacksonville, Florida 32246
<b>FIRM'S TELEPHONE NO.:</b>	(904) 642-8990

## **II      GENERAL SITE INFORMATION**

**COUNTY PROJECT IS LOCATED WITHIN:**    Duval County, Florida

<b>SECTION / TOWNSHIP / RANGE:</b>	Sections 18,19,20 / T 3 S / R 23 E
<b>U.S.G.S. TOPOGRAPHIC QUAD MAP:</b>	Baldwin
<b>LONGITUDE:</b>	N/A
<b>LATITUDE:</b>	N/A

**LOCATION OF SITE:**    The Trail Ridge Landfill site is located at 5110 U.S. Highway 301  
Duval County, Florida.

**PROJECT DESCRIPTION:** The project is an existing landfill owned by the City of Jacksonville and operated by Trail Ridge Landfill, Inc.. The Applicant(Trail Ridge Landfill, Inc.) is modifying the existing MSSW portions of the issued Solid Waste permit(permit no. SC16-184444) to reflect changes to the Stormwater Management System. Changes to the stormwater system will include reconfiguring the existing stormwater pond from an existing filtration treatment system to a wet detention system. The landfill's stormwater pond will no longer utilize the existing filter drain system used for achieving water quality treatment of stormwater. The pond will be converted over to a wet detention system. All water quality treatment for the contributing drainage areas will occur in the wet detention stormwater system (existing pond). Currently, two existing 12 inch PVC header pipes(part of the filter drain system located in the pond) convey water through the filter treatment system to stormwater pumps. These existing 12 inch PVC header pipes will be modified by having 12 inch PVC pipe extensions and 90° elbows added. The invert of the new pipes will then be set at elevation 95.0± feet NVGD. The existing 12 inch PVC header pipes will continue to be connected to existing stormwater pumps. The pumps will have their flow rates adjusted to between 2.50 cfs (1122.0 gpm) and 2.11 cfs ( 947.0 gpm) to meet the 48 to 60 hour draw down rate. The pumps will control the flow of stormwater out of the pond to facilitate the discharge of stormwater to meet water quality requirements.

### **III. DESCRIPTION OF PRE-DEVELOPMENT CONDITIONS**

**ACREAGE OWNED:** 978.00 Acres

**PROJECT AREA:** 184.40 Acres

**DRAINAGE AREA:** 184.60 Acres

**BACKGROUND INFORMATION (EXISTING CONDITIONS):** The facility is an existing landfill owned by the City of Jacksonville, Florida. Trail Ridge Landfill, Inc., operates the landfill for the City of Jacksonville, Florida. The landfill is active, currently accepting waste material. The landfill facility was permitted (Solid Waste permit no. SC16-184444) by the Department of Environmental Regulations on December 24, 1991. The existing permitted stormwater treatment system consisted of a stormwater pond with a filter drain system used in achieving water quality treatment of stormwater. The filter drain system provides for the treatment of the first flush of stormwater runoff from the landfill (requirement to meet water quality treatment standards). Stormwater is drawn through two filter beds of 12 inch perforated PVC pipes. The filter bed pipes are then connected to two existing 12 inch PVC header pipes. These two existing 12 inch PVC header pipes are part of a stormwater pump system that draws the water down through the filter bed system. Treated stormwater is then pumped to diffuser pipes where it is discharged to an existing wetland. Currently, on going construction is occurring at the landfill.

**RECEIVING BODY OF WATER:** Deep Creek (Headwaters)

☐ CLASS I    ☐ CLASS II    ☒ CLASS III    ☐ OFW

#### IV. DESCRIPTION OF POST-DEVELOPMENT CONDITIONS

PROJECT AREA: 184.40 Acres

##### PROPOSED STORMWATER TREATMENT SYSTEM

TYPE OF SYSTEM: ☐ Retention System  
☒ Wet Detention System  
☐ Dry Detention System  
☐ Filter Drain System  
☐ Drainage Swale System

##### WATER QUALITY TREATMENT OF STORMWATER:

Wet Detention: ☒ Recover 1/2 Treatment Volume in 48 to 60 hours

Retention: ☐ Recover entire Treatment Volume in 72 hours

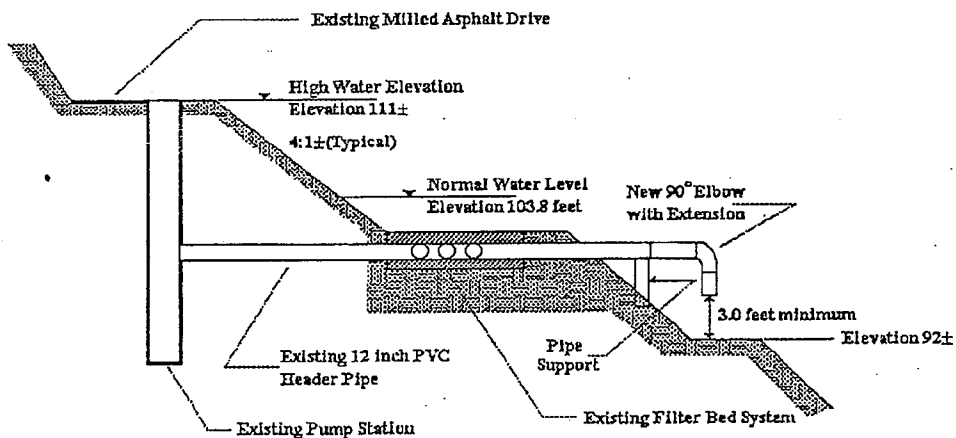
<u>STORMWATER POND NUMBER</u>	<u>TOP OF BANK ELEVATION (ft)</u>	<u>BOTTOM OF POND ELEVATION (ft)</u>	<u>NORMAL WATER ELEVATION (ft)</u>
Main Pond	111.00 feet	80.00 feet	103.80 feet

<u>STORMWATER POND NUMBER</u>	<u>TREATMENT VOLUME REQUIRED (cu-ft)</u>	<u>TREATMENT VOLUME AVAILABLE (cu-ft)</u>
Main Pond	15.37 ac-ft	15.70 ac-ft

Permanent Pool Volume Required: 49.35 acre-feet

Permanent Pool Volume Provided: 90.70 acre-feet

##### PROPOSED DRAWDOWN ORIFICE



Note: Pump On @ Elevation 103.8  
Pump Off @ Elevation 103.3

N.T.S.



## V. Summary

**Summary of Review:** Trail Ridge Landfill, Inc., has requested a modification to the MSSW portion of the Solid Waste permit (Solid Waste permit no. SC16-184444) to change the stormwater system from an existing filtration treatment system to a wet detention system.

Water Quality for the project is designed so that the outfall structure shall bleed down one-half the volume of stormwater within 48 to 60 hours following a storm event. No more than one-half of this volume will be discharged within the first 48 hours (40C-42.026(4)).

<u>STORMWATER POND NUMBER</u>	<u>TREATMENT VOLUME REQUIRED (cu-ft)</u>	<u>TREATMENT VOLUME AVAILABLE (cu-ft)</u>
Main Pond	15.37 ac-ft	15.70 ac-ft

Two existing 12 inch PVC header pipes(part of the filter drain system) will be refitted with new 12 inch PVC pipe extensions and two 90° elbows each. The invert of the new pipes will then be set at elevation 95.0± feet NVGD. The existing 12 inch PVC header pipes are connected to existing stormwater pumps which control the flow of stormwater out of the pond. The pumps will have their flow rates adjusted to between 2.50 cfs (1122.0 gpm) and 2.11 cfs ( 947.0 gpm) to meet the 48 to 60 hour draw down rate requirement (discharge of half the treatment volume (7.69 ac-ft)). Since the design calculations demonstrate that the pond can meet the above policy criteria, the system is determined to meet water quality requirements of 40C-42 FAC.

Permitting Application - PATS History

PATS History

PATS NO	184444	TYPE/SUBTYPE	SC / 01	STATUS	IS	ISSUED	
OFFICE	JAX	COUNTY	16	AS OF	30-MAR-1992	EXPIRES	
PROCESSOR	NOGAS, MARY						

---

LATITUDE DD	30	MM	14	SS		LONGITUDE DD	82	MM	2	SS	30
QUAD_NAME						BASIN	000	QUADRANT	000		

---

PROJECT	TRAIL RIDGE LANDFILL PLAN A CLASS I
APPLICANT	TRAIL RIDGE LANDFILL, INC.
AGENT	DOUGLAS C. MILLER, P.E.

COMMENTS	
XXX THIS APPLICATION INCLUDES SC16-184445 & MS16-184447.	
ADDITIONAL INFORMATION WAS RECEIVED ON 10/11/90.	
INTENT NOTICE WAS PICKED UP AT THIS OFFICE BY DOUG MILLER.	
PERMIT RENEWAL SHOULD PROHIBIT FACILITY FROM CONSTRUCTING. 15% HIGHER THAN PERMITTED ELEVATION AS NOTED ON P9-4, SECTION 2 (PHASING PLAN).	
***03/30/92-RCVD \$250 ADDITIONAL FEE FOR SUPPLEMENTAL INFO REVIEW RE ADMIN HEARING; APP #SC16-211067 RQST FOR MOD THIS PERMIT ALSO RCVD***	
***RCVD APP 05/08/92 RQST MINOR MODIFICATION THIS PERMIT***	
***MINOR MODIFICATION PERMIT NO. SC16-218294	
***MINOR MODIFICATION PERMIT NO. SC16-227169	
***MINOR MODIFICATION PERMIT NO. SC16-230403	
***MINOR MODIFICATION PERMIT NO. SC16-230404	
***MODIFICATION ON PERMIT NO. SC16-230405	
MODIFICATION ON PERMIT NO. MS16-230717/MINOR MOD ON NO. SC16-231431.	
MINOR MODIFICATION ON PERMIT NO. SC16-233002	
PROPOSED MODIFICATION ON PERMIT NO. S016-235083	
MINOR MODIFICATION ON PERMIT NO. S016-235269	
MSSW MINOR MODIFICATION ON PERMIT NO. MS16-236940	
PROPOSED MODIFICATION ON PERMIT NO S016-237826 CONCERNING GROUND WATER	
MONITORING ANALYTICAL METHODS.	
MODIFICATION ON SC16-258517 REQUIRED BY RULE (62-701.510).	
PROPOSED MODIFICATIONS TO PERMIT ON #SC16-263509 & #MS16-263508.	
MODIFICATION REQUEST MADE ON MS16-280638.	
MODIFICATION INITIATED BY DEPARTMENT; NO FEE - PROPOSED MODIFICATION MADE ON SC16-288638.	
MODIFICATION MADE ON WT16-293132	
RENEWAL MADE ON S016-296641 & SC10-296642	

Permitting Application - PATS History

**PATS History**

PATS NO	184447	TYPE/SUBTYPE	MS / 10	STATUS	IS	ISSUED	
OFFICE	JAX	COUNTY	16	AS OF	30-MAR-1992	EXPIRES	
PROCESSOR	NOGAS, MARY						

LATITUDE DD		MM		SS		LONGITUDE DD		MM		SS	
QUAD_NAME						BASIN	000	QUADRANT	000		

PROJECT	TRAIL RIDGE L/F - PLAN A, MSSW PLAN
APPLICANT	TRAIL RIDGE LANDFILL, INC.
AGENT	DOUGLAS C. MILLER, P.E.

COMMENTS	
COMMENTS	
XXX THIS APPLICATION IS PART OF SC16-184444	
ADDITIONAL INFORMATION WAS RECEIVED ON 10/11/90.	
INTENT NOTICE WAS PICKED UP AT THIS OFFICE BY DOUG MILLER.	
***03/30/92-RCVD \$1500 ADDITIONAL FEE FOR SUPPLEMENTAL INFO REVIEW RE	
ADMIN HEARING***	

Permitting Application - PATS History

PATS History

PATS NO	184445	TYPE/SUBTYPE	SC / T3	STATUS	IS	ISSUED	
OFFICE	JAX	COUNTY	16	AS OF	06-JAN-1992	EXPIRES	
PROCESSOR	HOGAS, MARY						

LATITUDE DD	30	MM	14	SS		LONGITUDE DD	82	MM	2	SS	30
QUAD_NAME						BASIN	000	QUADRANT	000		

PROJECT	TRAIL RIDGE L/F - PLAN A, CLASS III
APPLICANT	TRAIL RIDGE LANDFILL, INC.
AGENT	DOUGLAS C. MILLER, P.E.

Permitting Application - PATS History										PATS History													
PATS NO		207434		TYPE/SUBTYPE		SC / MM		STATUS		IS													
OFFICE		JAX		COUNTY		16		AS OF		30-DEC-1992													
PROCESSOR		NOGAS, MARY										ISSUED											
EXPIRES																							
LATITUDE DD		30		MM		14		SS				LONGITUDE DD		82		MM		2		SS		30	
QUAD_NAME												BASIN		000		QUADRANT		000					
PROJECT		TRAIL RIDGE LANDFILL(SC16-184444)																					
APPLICANT		TRAIL RIDGE LANDFILL, INC.																					
AGENT		DOUGLAS C. MILLER, P.E.																					



**England-Thims & Miller, Inc.**

CONSULTING ENGINEERS AND PLANNERS



stormwater  
DWA / Const.  
Trail  
Ridge  
Landfill  
Compliance

July 31, 2007

Ms. Melissa Long, P.E.  
Compliance & Assurance Supervisor  
Industrial Wastewater Section  
Florida Department of Environmental Protection  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256

**Locations**  
Jacksonville  
Panama City Beach

**Principals**  
Douglas C. Miller, P.E., CEO  
N. Hugh Mathews, P.E., President  
Joseph A. Tarver, Exec. V.P.  
Juanitta Bader Clem, P.E., V.P.  
Scott A. Wild, P.E., P.S.M., V.P.  
Samuel R. Crissinger, CFO, V.P.  
Robert A. Mizell, Jr., P.E., V.P.  
Thomas N. Fallin, P.E., V.P.

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

**Re: Trail Ridge Landfill – Annual Stormwater Pond Inspection (2006)**  
**Permit Number 0013493-010-SC**  
**ETM Project Number E05-191**


Dear Ms. Long:

In accordance with Specific Condition No. 43 B. of the referenced permit for the Trail Ridge Landfill, the annual inspection of the stormwater treatment facility (a wet detention pond) was conducted on July 27, 2007 and the pond has been found to be operating in accordance with the permitted design. Please see the attached inspection report, which has been signed and sealed in accordance with the specific condition.

If you have any questions, please do not hesitate to give me a call.

Sincerely,

ENGLAND-THIMS & MILLER, INC.

  
Juanitta Bader Clem, P.E.  
Vice President

Attachment

cc: Greg Mathes, Trail Ridge Landfill, Inc.  
Al Burson, Trail Ridge Landfill, Inc.  
Chris Pearson, City of Jacksonville  
Emerson Raulerson, Solid Waste Section, FDEP

**RECEIVED**

AUG 1 2007

NORTHEAST DISTRICT  
DEP-JACKSONVILLE

G:\LANDFILL\TRAIL\GENERAL\STORMWATER\Annual Inspection 2007.doc

ENGINEERS • PLANNERS • SURVEYORS • GIS • LANDSCAPE ARCHITECTS

14775 OLD ST. AUGUSTINE RD. • JACKSONVILLE, FL. 32258 • TEL: (904) 642-8990 • FAX: (904) 646-9485  
CA - 00002584 • www.etm-inc.com • LC - 0000316

DEP002924



**ENGLAND-THIMS & MILLER, INC.**

Consulting & Design Engineers  
14775 Old St. Augustine Road  
Jacksonville, Florida 32258

**TRAIL RIDGE LANDFILL**  
**ANNUAL STORMWATER POND INSPECTION**

**Attendees:** Jimmy Purvis - Trail Ridge Landfill, Inc.  
Dan Miller - Trail Ridge Landfill, Inc.  
Joey Forsyth - Trail Ridge Landfill, Inc.  
Juanitta Clem - England-Thims & Miller, Inc.

**Reference:** Trail Ridge Landfill  
ET&M Project No. 05-191

**Date:** July 27, 2007

**Weather:** Overcast (mid 70's)

---

Tests were performed at the Trail Ridge Landfill pump station to verify that the discharge rate is within the allowable permitted range. At the time of testing, the level of the wet detention pond supplying the pump station appeared to be slightly above the normal water level.

The permitted discharge rate for this wet detention pond is between 2.11 CFS (947 GPM) and 2.50 CFS (1,122 GPM). Based upon the wet size (8' x 8' or 478.7 Gallons/Foot of Depth), the discharge rate into the wet well from the pond should be:

$$\begin{aligned} & 947 \text{ GPM} / (478.7 \text{ Gal./Ft.}) = 2.0 \text{ Ft.}^3/\text{Min. (Min.)} \\ & 1,122 \text{ GPM} / (478.7 \text{ Gal./Ft.}) = 2.3 \text{ Ft.}^3/\text{Min. (Max.)} \end{aligned}$$

$1 \text{ ft}^3 = 7.48 \text{ Gal}$

In order to test the system, the inlet valves in the wet well were set with both valves partially opened (4 complete revolutions on one valve and 3.5 revolutions on the other valve). Then, the flow into the wet well was determined as follows:

<u>Depth</u>	<u>Time</u>	<u>Rise</u>
13.3 Ft.	0	0 Ft.
12.1 Ft.	30 Sec.	1.2 Ft.
11.1 Ft.	60 Sec.	1.0 Ft.
10.1 Ft.	90 Sec.	1.0 Ft.
<hr/>		
Total	1.5 Min.	3.2 Ft. => 2.13 Ft/Min = 1,021.2 GPM

Since the flow rate of 1,021.2 GPM is within the permitted range, this discharge rate and valve configuration was deemed acceptable. The inlet valves will be operated in the partially opened position as previously described.

In conclusion, the stormwater pond is functioning according to the permitted wet detention design.



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

September 30, 2008

Ms. Melissa Long, P.E.  
Compliance & Assurance Supervisor  
Industrial Wastewater Section  
Florida Department of Environmental Protection  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256

**Re: Trail Ridge Landfill – Annual Stormwater Pond Inspection**  
**Permit Number 0013493-010-SC**  
**ETM Project Number E05-191**

Dear Ms. Long:

In accordance with Specific Condition No. 43 B. of the referenced permit for the Trail Ridge Landfill, the annual inspection of the stormwater treatment facility (a wet detention pond) was conducted on September 25, 2008 and the pond has been found to be operating in accordance with the permitted design. Please see the attached inspection report, which has been signed and sealed in accordance with the specific condition.

If you have any questions, please do not hesitate to give me a call.

Sincerely,

ENGLAND-THIMS & MILLER, INC.

  
Juanita Bader Clem, P.E.  
Vice President

Attachment

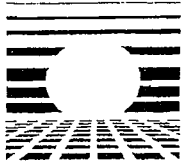
cc: Greg Mathes, Trail Ridge Landfill, Inc.  
Mark Triplett, Trail Ridge Landfill, Inc.  
Chris Pearson, City of Jacksonville  
Emerson Raulerson, Solid Waste Section, FDEP  
Scott Jordan Lockwood, P.E. (ET&M)

**PRINCIPALS**

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

**EMERITUS**

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



# England-Thimms & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • GIS • LANDSCAPE ARCHITECTS

14775 St. Augustine Road, Jacksonville, FL 32258  
(904) 642-8990 Fax: (904) 646-9485 <http://www.etm-inc.com>

## Trail Ridge Landfill Annual Storm Water Inspection

**Test Date:** September 25, 2008 **Start Time:** 9:30 Am +/-

**Reference:** Trail Ridge Landfill **Weather:**  
ET&M Job No: E 05-191 Sunny, Cool

Attendees:	Company
Jimmy Purvis (Cell 591-6112)	Trail Ridge Landfill, Inc.
Dan Skinner	Trail Ridge Landfill, Inc.
Ed Schmalfeld	Trail Ridge Landfill, Inc.
Ben Miller	Trail Ridge Landfill, Inc.
James Butler	Trail Ridge Landfill, Inc.
Scott Jordan Lockwood, P.E.	England Thims and Miller, Inc.

Inflow Rate into the Storm Water Smf must be between 2.11 Cfs (947 Gpm) and 2.50 Cfs (1122 Gpm)  
Based on existing Storm Water wetwell size 8' x 8' square approximately 478.7 Gallon / Ft of Depth

2.11 Cfs (947 Gpm) at (478.7 Gal / ft.) =	1.98	feet of Depth (Min.)
2.50 Cfs (1122 Gpm) at (478.7 Gal / ft.) =	2.34	feet of Depth (Max.)

During testing, the storm water pumps were turned on so that the water level in the wetwell was dropped.  
Next the Storm Water was allowed to enter wetwell under gravity flow.  
The intake valves were adjusted such that the inflow into the wetwell was set between 947 Gpm and 1122 Gpm as listed in the table above. The storm water was measured every 30 seconds for a total of 2 minutes. After the two minutes the average flow rate was calculated to determine the rate of inflow. Once the desired rate was achieved the number of turns for each valve was noted by Trail Ridge Landfill, Inc and written down on the inside of the control panel

Depth to Water from Top	Time	Fall Difference
12.3 Feet	0 Sec	0 Feet
11.1 Feet	30 Sec	1.2 Feet
9.9 Feet	60 Sec	1.2 Feet
9 Feet	90 Sec	0.9 Feet
8.1 Feet	120 Sec	0.9 Feet
Total	2.0 Min.	4.2 Feet

2.1 Ft. / Min.

**Results** 1005 Gpm

Prepared under the direction of

Scott Jordan Lockwood, P.E.  
PE #68426

Scott Jordan Lockwood  
PE #68426  
SEP 30 2008

**ID:****304240**This ID is read by a scanner.  
Do not mark.**DWM Preindex Coversheet**

ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

**Submittal Data**Catalog **Solid Waste**Profile **Permitting\_Authorization**County **DUVAL**Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**Document Date **11-04-2008**Received Date **11-04-2008**Document\_Type **PERMIT APPLICATION RELATED**

Contractor ID

Facility Type **CLASS I LANDFILL (100)**Document Subject **Information related to stormwater permits**☐ Double Sided☐ Oversized Pages

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

☐ Data Sheet

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

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

Comments

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

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

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

Created By

bogin\_m



Date 7/21/09



# Florida Department of Environmental Protection

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

193266  
F  
Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

November 14, 2008

Mr. Greg Mathes  
Director of Landfill Operations  
Trail Ridge Landfill, Inc.  
5110 U.S. Highway 301  
Baldwin, Florida 32234

**Re: Trail Ridge Landfill  
Class I Landfill and Waste Tire Processing Facility, Operation Renewal Application  
FDEP File Numbers 0013493-017 and 0126289-002  
WACS I.D. Number: NED/16/00033628  
Request for Additional Information  
Duval County – Solid Waste Permitting**


Dear Mr. Mathes:

The Florida Department of Environmental Protection (DEP) has reviewed your permit application dated and received October 15, 2008. The following reviews are enclosed:

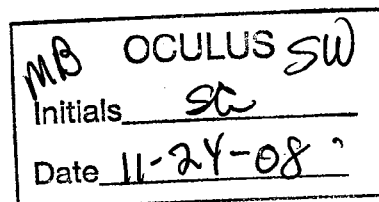
Attachment 1, Review Memorandum dated November 13, 2008, prepared by Michael Bogin.  
Attachment 2, Review Memorandum dated November 14, 2008, prepared by Richard Rachal, P.G.

The information requested in these reviews is required for DEP to continue processing your permit application. Please provide the requested information by December 19, 2008. Action on the application will be delayed until the requested information is received in this office. Please reference the associated DEP file number and WACS I.D. number in all written correspondence concerning this project. If you have any comments about this matter, please contact Michael Bogin at the letterhead address, at e-mail Michael.Bogin@dep.state.fl.us, or telephone number 904.807.3355.

Sincerely,

  
Emerson C. Raulerson, P.E.  
Solid Waste Section Supervisor

ECR:mb:rm 



Enclosure

cc: Juanitta Bader Clem, P.E., England, Thims, and Miller, Inc.  
*More Protection, Less Process*  
[www.dep.state.fl.us](http://www.dep.state.fl.us)

DEP002930

# Florida Department of Environmental Protection

## Memorandum

TO: Files

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

FROM: Michael Bogin *MB*  
Solid Waste Engineer

DATE: November 13, 2008

SUBJECT: Trail Ridge Landfill  
Class I Landfill and Waste Tire Processing Facility  
Operation Renewal Application  
FDEP File Numbers 0013493-017 and 0126289-002  
WACS I.D. Number: NED/16/00033628  
Request for Additional Information  
Duval County – Solid Waste Permitting

---

The Florida Department of Environmental Protection (DEP) has reviewed the above-referenced permit application dated and received October 15, 2008. The following are comments and/or requests for additional information:

1. In responding to this request for additional information (RAI) if one response modifies a section of the Operations Plans or the Contingency Plan and Emergency Procedures Plan, the respective section(s) should be modified accordingly. A revised, complete version of the plans that includes all revisions made in responding to this RAI should be attached. To enable DEP to view changes to the plan, all additions should be underlined (e.g., added) and all deletions should be struck through (e.g., ~~deleted~~). By this method, DEP hopes to have one final version of the respective plans that includes all revisions made during this permitting process.
2. Since the project is reasonably expected to result in a heightened public concern or the possibility for a request for administrative proceedings, pursuant to Florida Administrative Code (FAC) Rule 62-110.106(7)(a)1, please publish the Notice of Application in a newspaper of general circulation in the area where the facility is located, and provide proof of publication to DEP.
3. In addition to indicating "No Change" on the application form, also identify the document (including its date) in which the information was previously provided, and where in that document the information is located.
4. It appears that language in the "Permit Documents for Operation and Construction" sections is very similar to the previous Permit Application (i.e., the application

submitted for the second permit renewal) and does not reflect many of the amendments and/or clarifications related to DEP's three requests for additional information for that application. Please evaluate DEP's comments and the facility's responses for that application, and address the changes in this Application.

5. The application form was signed by Mr. Greg Mathes as a Director of Landfill Operations; however, the Florida Department of State, Division of Corporations web page does not list him as an officer/director. Please either get the application form signed by an officer/director, or provide a letter of authorization from an officer/director (applicant) designating Mr. Greg Mathes as being authorized to act for the applicant in this matter.
6. In Section A.5 of the Application Form and on the financial assurance cost estimates form, please indicate the DEP ID number as NED/16/00033628.
7. The latitude/longitude coordinates listed in Section A.7 of the Application Form (DEP Form # 62-701.900(1), Section B.7 of the Application Form (DEP Form # 62-701.900(23)), and in the financial assurance cost estimates form appear to be located offsite. Please verify the location of the latitude/longitude, which should be situated, preferably, in the middle of the active area.
8. In Section B.6 of the Application Form, please verify the charge for disposal. In accordance with our records, Trail Ridge Landfill currently charges \$29.87 per ton.
9. The Saturday hours of operation that are provided in Section B.15 of the Application Form differ from those listed on page 15 of the Permit Documents. Please clarify.
10. Please note that the MSSW permit modification No. MS16-296691 to Solid Waste Permit No. SC16-184444 was a modification of the solid waste permit that expired within five years and, therefore, no longer exists. Thus, please indicate if a stand-alone ERP permit (including stormwater/mitigation projects) has been received.
11. In Section S of the Application Form, please identify the proper location of the financial assurance cost estimates in the Application.
12. In accordance with FAC Rule 62-701.320(7)(f)6, "All elevations shall be referenced to National Geodetic Vertical Datum." Please confirm, and identify in the Application and on the Drawings that all elevations are in NGVD. If it is necessary, please provide conversion from one system to another (for instance, from MSL to NGVD).
13. Please provide written quotes from two different third party sources that specialize in precision earthwork (i.e., not ones that normally only do land clearing work) and that have no special ties to the applicant and/or the consultant. Please revise the cost estimates accordingly, utilizing the higher numbers from each set of quotes.



14. Please provide written third party quotes with specific contact information for all the estimated costs. Also, please ensure that the quotes indicate that they are valid for any user (including DEP) and are not only valid for the individual requesting the quote.
15. Please note that the cost estimates need to be adjusted for removing the maximum amount of tires, processed and unprocessed. Please break down the cost to remove the tires from the site. Please provide letters from third parties quoting the cost they charge to remove tires from the site and to send them to a facility authorized to accept them, as well as the costs a facility/entity will charge to process and manage them. The costs shall not reflect any reduced costs. Also, please note that until DEP accepts the certification of closure construction completion, in writing, cost estimates to close that area are still required. Please revise your estimates accordingly.
16. Page 11 of Section V (Landfill Performance and Design Standards): In case of emergency, please propose special measures concerning leachate storage, handling, and disposal, in the event that the WWTP is unable to accept the landfill leachate.
17. Page 12 of Section V (Landfill Performance and Design Standards): Please indicate whether the interior of the leachate storage tanks have been cleaned and/or repaired. Please provide records of inspections.
18. Page 13 of Section V (Landfill Performance and Design Standards): Please indicate whether the Permittee has applied for the Title V Air Operation Permit renewal, since existing permit has expired on August 31, 2008.
19. Please indicate if the Permittee would like to continue to operate with two working faces. If yes, please amend the Operation Plan accordingly. Also, please specify the maximum working face dimensions.
20. Page 16 of Section VII, Part B (Contingency Operations): Please identify measures that will be taken if a vehicle arrives at the facility and it is discovered that it has a hot load. Please note that DEP considers it unacceptable to send such a load back out onto the public highways. Therefore, please delineate the area for the temporary storage of hot loads while they are being cooled, and indicate the manner in which those loads will be cooled.
21. A discrepancy was noticed between page 21 and pages 27 and 28 of the Operation Plan concerning the amount of time when permanent vegetation will be placed over the entire surface of each completed solid waste disposal unit ("within 180 days" vs. "as soon as practical"). Please clarify.
22. A discrepancy was noticed between page 30 and pages 21 and 27 of the Operation Plan concerning the amount of time when eroded areas will be repaired. Please clarify.

23. Pages 23 and 26 of Section VII (Operation Plan): Please provide operation and maintenance plan for both the stormwater management and the wetland irrigation systems. Please identify the discharge rate for the wet detention pond and the wetland irrigation system.
24. Page 27 of Section VII (Operation Plan): Please specify if a tipper will be provided and utilized at the site.
25. The existing permit allows the facility to use contaminated soil as initial cover (if it receives written approval from DEP). However, the Application does not have any information about this possibility. Therefore, if the facility would like to continue this option, please amend the Application accordingly.
26. In the existing permit, the entire Specific Condition 32 is dedicated to contaminated soil and slag disposal or reuse, onsite storage, and records. However, the Application does not have any information about these possibilities. Therefore, if the facility would like to continue these options, please amend the Application accordingly.
27. Please define in the Operation Plan the sampling protocols, including frequency and parameters, in which contaminated soil and ash will be analyzed. Please provide the methodology utilized to determine if the soils/ash are appropriate for usage as cover, based upon nuisance issues such as odor, moisture content, etc.
28. Please explain in which cases the facility will or will not provide DEP with analytical results prior to use or disposal of contaminated soil and/or ash at the facility.
29. Please provide a scaled drawing showing the location for storage of impacted soils/ash prior to usage and a detailed description of signage and usage.
30. Please list the procedures that will be followed at the facility to ensure that contaminated soil/ash is only used on internal slopes of the lined area. What safeguards will be in place to prevent it from being inadvertently placed on an external slope? What documentation will be maintained concerning the application of this material and its temporary storage prior to application?
31. Please specify in the Operation Plan that material used for initial cover (such as shredded tires, contaminated soils, and ash) will be placed in a six-inch layer.
32. Concerning the application of ash as an initial cover layer, please explain how it will affect the flow of leachate. Also, where will ash be stored? Please list the procedures that will be followed in managing ash from the time it is received until it is used.
33. According to Section IX (Special Waste Handling), ash residue that meets the criteria of Rule 62-702.570(6), F.A.C. may be used as initial cover. Also, the Application states that

"Ash residue ... will be handled in accordance with Chapter 62-702, F.A.C." Please explain how the requirements of Rules 62-702.570(5), (7), (9), and (10) will be followed.


34. Appendix D (Leachate Collection System Maintenance Program Report) was omitted from the Application. Please submit the report as required by Specific Condition 38.j of the existing permit.
35. The following comments concern the Waste Tire Processing Facility Permit Application:
  - a. Please indicate the correct Permit number.
  - b. Please indicate the type of permit the Application is for.
  - c. Please verify the location, which should be situated, preferably, in the middle of the active area.
  - d. Although the existing permit limits the amount of stored whole waste tires to 100 tons, the Application indicates that 3,900 tons of whole waste tires will be stored. However, calculations were not provided showing the processing equipment has the throughput capacity to allow that amount of whole waste tires without violating the limitations placed by Rule 62-711.530(2)(a), F.A.C. Please clarify.
  - e. In Section 3 (Operations and Maintenance), please specify the daily throughput of the processing equipment being used, and coordinate this number with requirement of the Rule 62-711.530(2)(a), F.A.C.
  - f. In Section 3 (Operations and Maintenance) please specify if the Permittee would like to separately store used tires [as defined in the Rule 62-701.200.(130)]. If so, please confirm that the facility will be in compliance with requirement of the Rule 62-711.530(2)(b) F.A.C.
  - g. Appendix I (Waste Tire Processing): It appears that language in the Appendix is identical with the original Application submitted for the existing Permit and did not have any of the amendments provided in response to DEP's two requests for additional information. Also, please revise and replace old references related to Rule 17-711.
  - h. While the Application indicates that a site plan was provided in Exhibit A, that Exhibit was omitted from the Application. Please submit.
36. Please indicate/explain why changes made to the Quality Assurance/Quality Control Plan for Side Slope Closure (Appendix K) were not made for the Quality Assurance/Quality Control Plan for the Top Area (Appendix L).


ECR:mb:rm




## Memorandum

## Florida Department of Environmental Protection

**TO:** Michael Bogin   
Solid Waste Section

Emerson Raulerson, P.E.   
Solid Waste Section Supervisor

**FROM::** Richard S. Rachal, P.G.   
Waste Cleanup Section Supervisor

**DATE:** November 14, 2008

**SUBJECT:** Permit Renewal Application  
Trail Ridge Landfill, Jacksonville, Florida  
Duval County, Florida

I have reviewed the permit renewal application for the Trail Ridge Landfill prepared by England, Thims & Miller, Inc. (ETM) received by the Florida Department of Environmental Protection (DEP) on October 15, 2008. The following comment(s) needs to be addressed in an appropriately signed and sealed response.

1. The application references an existing monitoring plan on Page 30 and provides a semi-annual groundwater monitoring report cover page in Appendix O. Please provide an evaluation of the current monitoring program, as well as an affirmative conclusion that it is adequate to monitor the facility or propose modifications to the plan.

<b>ID:</b>	<b>193266</b>	This ID is read by a scanner. Do not mark.
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## DWM Preindex Coversheet

ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

### Submittal Data

Catalog **Solid Waste**  
Profile **Permitting\_Authorization**  
County **DUVAL**  
Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**  
Document Date **11-14-2008**  
Received Date **11-14-2008**  
Document\_Type **PERMIT APPLICATION RELATED**  
Contractor ID \_\_\_\_\_  
Facility Type **CLASS I LANDFILL (100)**  
Document Subject **1st Request for Additional Information**

There are supplemental indexes to this document

<input type="checkbox"/> Double Sided	<input type="checkbox"/> Oversized Pages	Prepped By _____
<input type="checkbox"/> Data Sheet	Page Count _____	Scanned By _____
Comments _____		QC By _____
		Indexed By _____
		QA By _____
Created By _____		Date 11/17/08
bogin_m <i>EC</i>		

<b>ID:</b>	<b>193266</b>	This ID is read by a scanner. Do not mark.
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## DWM Supplemental Data

THIS SHEET SHOULD NOT BE SCANNED. IT IS ONLY  
HERE TO CONFIRM THE SUPPLEMENTAL DATA

### Supplemental 1

Catalog **Solid Waste**  
 Profile **Permitting\_Authorization**  
 County **DUVAL**  
 Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**  
 Document Date **11-14-2008**  
 Received Date **11-14-2008**  
 Document\_Type **PERMIT APPLICATION RELATED**  
 Contractor ID  
 Facility Type **WASTE TIRE PROCESSING FACILITY (710)**  
 Document Subject **1st Request for Additional Information**



# England-Thims & Miller, Inc.

14775 Old St. Augustine Road ▪ Jacksonville, Florida 32258  
tel 904.642.8990 ▪ fax 904.646.9485 ▪ www.etminc.com

November 10, 2008

Mr. Emerson Raulerson, P. E.  
Solid Waste Section  
Department of Environmental Protection  
Solid Waste Section  
7825 Baymeadows Way, Suite B-200  
Jacksonville, Florida 32256

**Re: Trail Ridge Landfill - Permit Renewal  
FDEP Permit No. 0013493-001 and 0013493-002  
ETM No.: 07-044**

Dear Mr. Raulerson:

Please find the following:

- Four (4) sets of Leachate Collection System Maintenance performed by Florida Jetclean

I would respectfully request that questions regarding this application be directed to Juanitta Clem or me.  
Please feel free to call me at (904) 265-3181 if you have any comments or questions.

Sincerely,

**ENGLAND-THIMS & MILLER, INC.**

Scott Jordan Lockwood, P.E.  
Project Manager

Xc:	Chris Pearson	(City of Jacksonville)	(w/ attachments)
	Greg Mathes	(Trail Ridge Landfill, Inc.)	(w/ attachments)
	Mark Triplett	(Trail Ridge Landfill, Inc.)	(w/ attachments)
	Brian E. Dolihite	(Trail Ridge Landfill, Inc.)	(w/ attachments)
	Juanitta Bader Clem, P.E.	(ETM)	(cover letter only)

**RECEIVED**

**NOV 12 2008**

**NORTHEAST DISTRICT  
DEP-JACKSONVILLE**

**PRINCIPALS**

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

**EMERITUS**

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

ENGINEERS ▪ PLANNERS ▪ SURVEYORS ▪ GIS ▪ LANDSCAPE ARCHITECTS

JACKSONVILLE ▪ PANAMA CITY

CA-00002584 LC-0000316

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DEP002939

**FLORIDA JETCLEAN**

~~798507~~  
204691

HIGH PRESSURE WATER JETTING  
VIDEO PIPELINE INSPECTION  
NO DIG POINT REPAIRS  
WWW.FLORIDAJETCLEAN.COM

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19019 FERN MEADOW LOOP  
LUTZ, FL 33558  
TEL: 800-226-8013 FAX: 813-926-4616  
FLORIDAJETCLEAN@TAMPABAY.FL.COM

NOV 12 2008

NORTHEAST DISTRICT  
DEP-JACKSONVILLE

**Waste Management  
Trail Ridge Landfill  
Leachate Collection System Maint.**

**Work Performed  
October 2008**

MB	OCULUS SW
Initials	SG
Date	12-22-08

Work Conducted By:  
**Florida Jetclean**  
**800-226-8013**



## FLORIDA JETCLEAN

HIGH PRESSURE WATER JETTING  
VIDEO PIPELINE INSPECTION  
NO DIG POINT REPAIRS  
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19019 FERN MEADOW LOOP  
LUTZ, FL 33558  
TEL: 800-226-8013 FAX: 813-926-4616  
FLORIDAJETCLEAN@TAMPABAY.RR.COM

DATE : 11/6/2008  
TO : Edward Schmalfeld II – Waste Management  
FROM : Ralph Calistri (floridajetclean@tampabay.rr.com)  
SUBJECT : Trail Ridge Landfill Leachate Collection System Maintenance

Florida Jetclean completed the leachate collection system jetcleaning and explosion-proof video inspection work at the Trail Ridge landfill on 10/15/2008. Also included with this report are the jetting logs, pipe graphic reports, and the DVD inspection videos for your further reference.

### HIGH PRESSURE WATER-JETTING:

As the below jetting log documents, all pipes were cleaned via high-pressure water-jetting nozzle as far as is possible through overlapping efforts from both ends to remove biomass buildups. Achieved jetting distances are documented in the jetting log below:

Cleanout 2A toward 1A	1,200'
Cleanout 2B toward 1B	1,200'
Cleanout 2C toward 1C	1,200'
Cleanout 4A toward 3A	1,200'
Cleanout 4B toward 3B	1,200'
Cleanout 4C toward 3C	1,200'
Cleanout 5C toward 5A	1,200'
Cleanout 5D toward 5B	1,200'
Cleanout 5B toward 5D	1,200'
Cleanout 5A toward 5C	1,200'
Cleanout 3B toward 4B	1,200'
Cleanout 1C toward 2C	1,200'
Cleanout 3A toward 4A	1,200'
Cleanout 1B toward 2B	1,200'
Cleanout 1A toward 2A	1,200'
Cleanout 3C toward 4C	1,200'
Sump 1A Secondary	53'
Sump 1A Primary	48'
Sump 1B Primary	61'
Sump 1B Secondary	53'
Sump 1C Primary	56'
Sump 1C Secondary	55'
Sump 3A Primary	51'
Sump 3A Secondary	52'
Sump 3B Primary	52'
Sump 3B Secondary	52'
Sump 3C Secondary	58'
Sump 5A Primary	59'
Sump 5A Secondary	58'

Sump 5B Primary	66'
Sump 5B Secondary	63'
Sump 3C Primary	62'

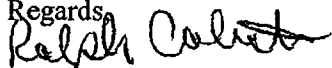
**EXPLOSION-PROOF VIDEO-INSPECTION:**

After high-pressure jetting activities were completed, all pipes were video inspected as far as possible from each end (see included pipe graphic reports and DVD videos). Other than some minor "bellies" (common in the type of installation), the only notable item was some remaining sand and debris upstream of Cleanouts 1A and 3C (and their sumps) which has since been removed from the system through additional high-pressure water-jetting efforts and vacuum extraction from the sump areas. The distance the camera can travel through the pipes is affected by many factors, especially the slickness of the pipe walls and fusion beads causing loss of traction. In any cases where the full length of the surveyed pipe is not inspected, the fact that high-pressure jetting was not restricted in any way would support the contention that the leachate collection system is in good working order.

Overall, there was good leachate flow present. Based on information collected during the above activities, the leachate collection system appears to flow and drain properly.

Please call us with questions or concerns.

Regards,



Ralph Calistri - Florida Jetclean

# **CCTV Surveys List for WASTE MANAGEMENT**

Number of surveys in this list is 8 as of Wednesday, October 08, 2008

Unit of measure: ft

Setup Date	Street	Start MH	Finish MH	Dir	Size inch	Pre Clean	Vid Cassette	Scheduled Length	Surveyed Length
1 10/7/2008	TRAIL RIDGE LANDFILL	CO.2A	CO.1A	D	8	Y	1	1,200.0	984.7
2 10/7/2008	TRAIL RIDGE LANDFILL	CO.2B	CO.1B	D	8	Y	1	1,200.0	482.8
3 10/7/2008	TRAIL RIDGE LANDFILL	CO.2C	CO.1C	D	8	Y	1	1,200.0	628.5
4 10/8/2008	TRAIL RIDGE LANDFILL	CO.4A	CO.3A	D	8	Y	2	1,200.0	849.4
5 10/8/2008	TRAIL RIDGE LANDFILL	CO.4B	CO.3B	D	8	Y	2	1,200.0	550.7
6 10/8/2008	TRAIL RIDGE LANDFILL	CO.4C	CO.3C	D	8	Y	2	1,200.0	1137.2
7 10/8/2008	TRAIL RIDGE LANDFILL	CO.5C	CO.5A	D	8	Y	3	1,200.0	634.2
8 10/8/2008	TRAIL RIDGE LANDFILL	CO.5D	CO.5B	D	8	Y	3	1,200.0	1053.5

Total Scheduled Length 9,600.0

Total Length Surveyed 6,321.0

FLORIDA JETCLEAN Phone: 1800-226-8013 Fax: 813-926-4616

# CCTV Surveys List for WASTE MANAGEMENT

Number of surveys in this list is 7 as of Tuesday, October 14, 2008

Unit of measure: ft

Setup Date	Street	Start MH	Finish MH	Dir	Size Inch	Pre Clean	Vid Cassette	Scheduled Length	Surveyed Length
9 10/9/2008	TRAIL RIDGE LANDFILL	CO.5B	CO5D	U	8	Y	4	1,200.0	1,120.8
10 10/9/2008	TRAIL RIDGE LANDFILL	CO.5A	CO5C	U	8	Y	4	1,200.0	967.2
11 10/9/2008	TRAIL RIDGE LANDFILL	CO.3B	CO4B	U	8	Y	5	1,200.0	1,119.6
12 10/10/2008	TRAIL RIDGE LANDFILL	CO.1C	CO2C	U	8	Y	5	1,200.0	579.1
13 10/13/2008	TRAIL RIDGE LANDFILL	CO.3A	CO4A	U	8	Y	6	1,242.3	1,242.3
14 10/13/2008	TRAIL RIDGE LANDFILL	CO.1B	CO2B	U	8	Y	6	1,200.0	739.5
15 10/14/2008	TRAIL RIDGE LANDFILL	CO.1A	CO2A	U	8	Y	6	1,200.0	52.2

Total Scheduled Length 8,442.3

Total Length Surveyed

5,820.7

FLORIDA JETCLEAN Phone: 1800-226-8013 Fax: 813-926-4616

# CCTV Surveys List for WASTE MANAGEMENT

Number of surveys in this list is 16 as of Wednesday, October 15, 2008

Unit of measure: ft

Setup	Date	Street	Start MH	Finish MH	Dir	Size inch	Pre Clean	Vid Cassette	Scheduled Length	Surveyed Length
16	10/14/2008	TRAIL RIDGE LANDFILL	1A.SEC.SUMP	ENDCAP	D	24		7	52.9	52.9
17	10/14/2008	TRAIL RIDGE LANDFILL	1A.PRI.SUMP	ENDCAP	D	24		7	48.1	48.1
18	10/14/2008	TRAIL RIDGE LANDFILL	1B.PRI.SUMP	ENDCAP	U	24		7	60.9	60.9
19	10/14/2008	TRAIL RIDGE LANDFILL	1B.SEC.SUMP	ENDCAP	D	24		7	52.8	52.8
20	10/14/2008	TRAIL RIDGE LANDFILL	1C.PRI.SUMP	ENDCAP	D	24		7	56.0	56.0
21	10/14/2008	TRAIL RIDGE LANDFILL	1C.SEC.SUMP	ENDCAP	D	24		7	55.3	55.3
22	10/14/2008	TRAIL RIDGE LANDFILL	3A.PRI.SUMP	ENDCAP	D	24		7	51.0	51.0
23	10/14/2008	TRAIL RIDGE LANDFILL	3A.SEC.SUMP	ENDCAP	D	24		7	51.6	51.6
24	10/14/2008	TRAIL RIDGE LANDFILL	3B.PRI.SUMP	ENDCAP	D	24		7	52.2	52.2
25	10/14/2008	TRAIL RIDGE LANDFILL	3B.SEC.SUMP	ENDCAP	D	24		7	53.5	52.1
26	10/14/2008	TRAIL RIDGE LANDFILL	3C.SEC.SUMP	ENDCAP	D	24		7	58.2	58.2
27	10/14/2008	TRAIL RIDGE LANDFILL	5A.PRI.SUMP	ENDCAP	D	24		7	58.8	58.8
28	10/14/2008	TRAIL RIDGE LANDFILL	5A.SEC.SUMP	ENDCAP	D	24		7	58.2	58.2
29	10/14/2008	TRAIL RIDGE LANDFILL	5B.PRI.SUMP	ENDCAP	D	24		7	66.0	66.0
30	10/14/2008	TRAIL RIDGE LANDFILL	5B.SEC.SUMP	ENDCAP	D	24		7	63.1	63.1
32	10/15/2008	TRAIL RIDGE LANDFILL	3C.PRI.SUMP	ENDCAP	D	24	Y	7	61.8	61.8

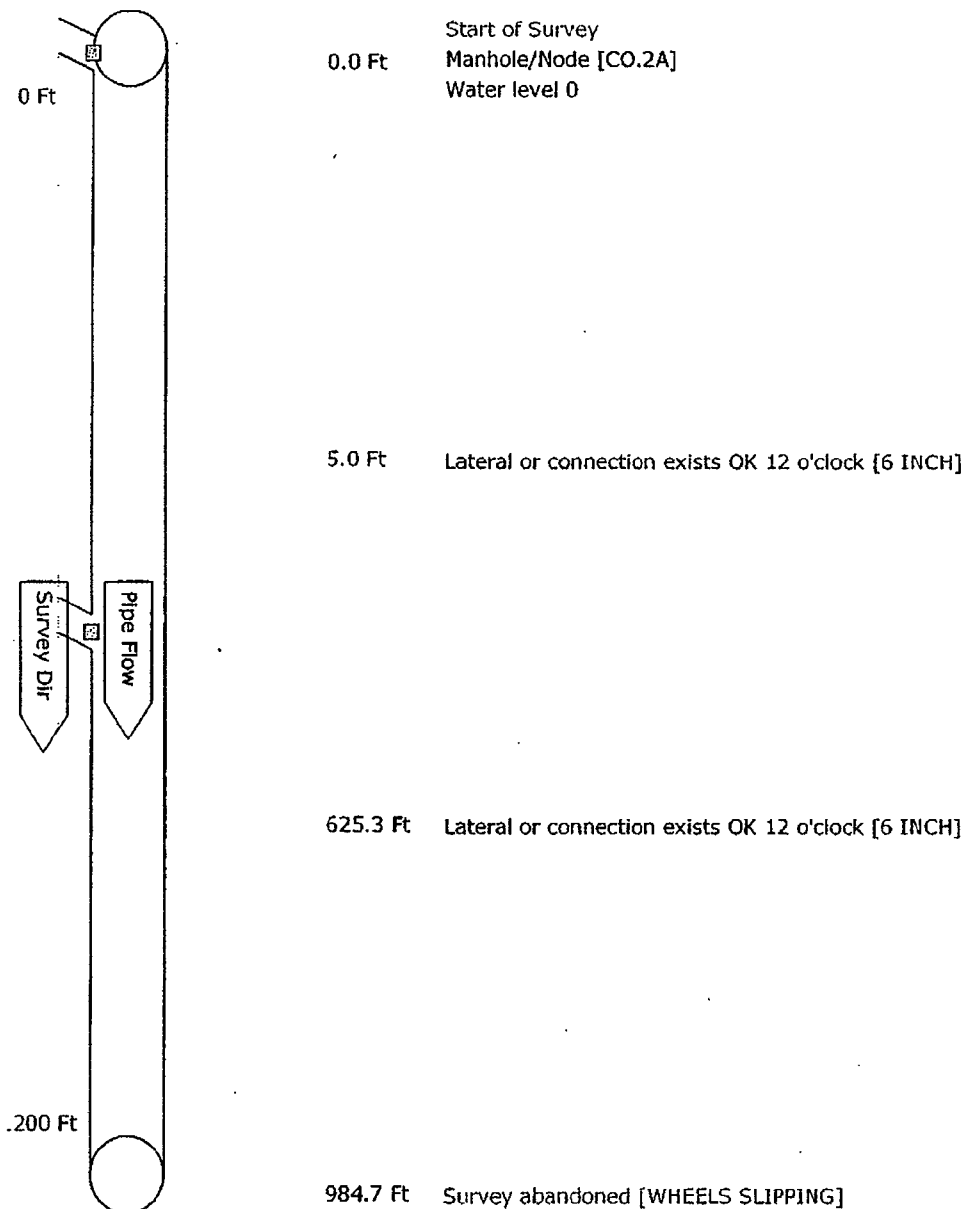
Total Scheduled Length 900.4

Total Length Surveyed 899.0

FLORIDA JETCLEAN Phone: 1800-226-8013 Fax: 813-926-4616

Pipe Graphic Report of PLR CO.2A X for WASTE MANAGEMENT

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 1	<b>Setup</b> 1
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/07/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b> Other (state in comments)	<b>Schedule length</b> 1200.0 Ft	<b>From</b> CO.2A	<b>Depth</b> Ft
<b>Shape</b> Circular	<b>Size</b> 8 <b>by</b> ins	<b>To</b> CO.1A	<b>Depth</b> Ft
<b>Material</b> Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Downstream	
<b>Lining</b>	<b>Year laid</b>	<b>Pre-clean</b> Y	<b>Last cleaned</b> 10/6/2008
<b>General note</b> PRIMARY LEACHATE COLLECTION SYSTEM		Structural	Service
<b>Location note</b> WEST SIDE CLEANOUTS.		Miscellaneous	Hydraulic
			Constructional

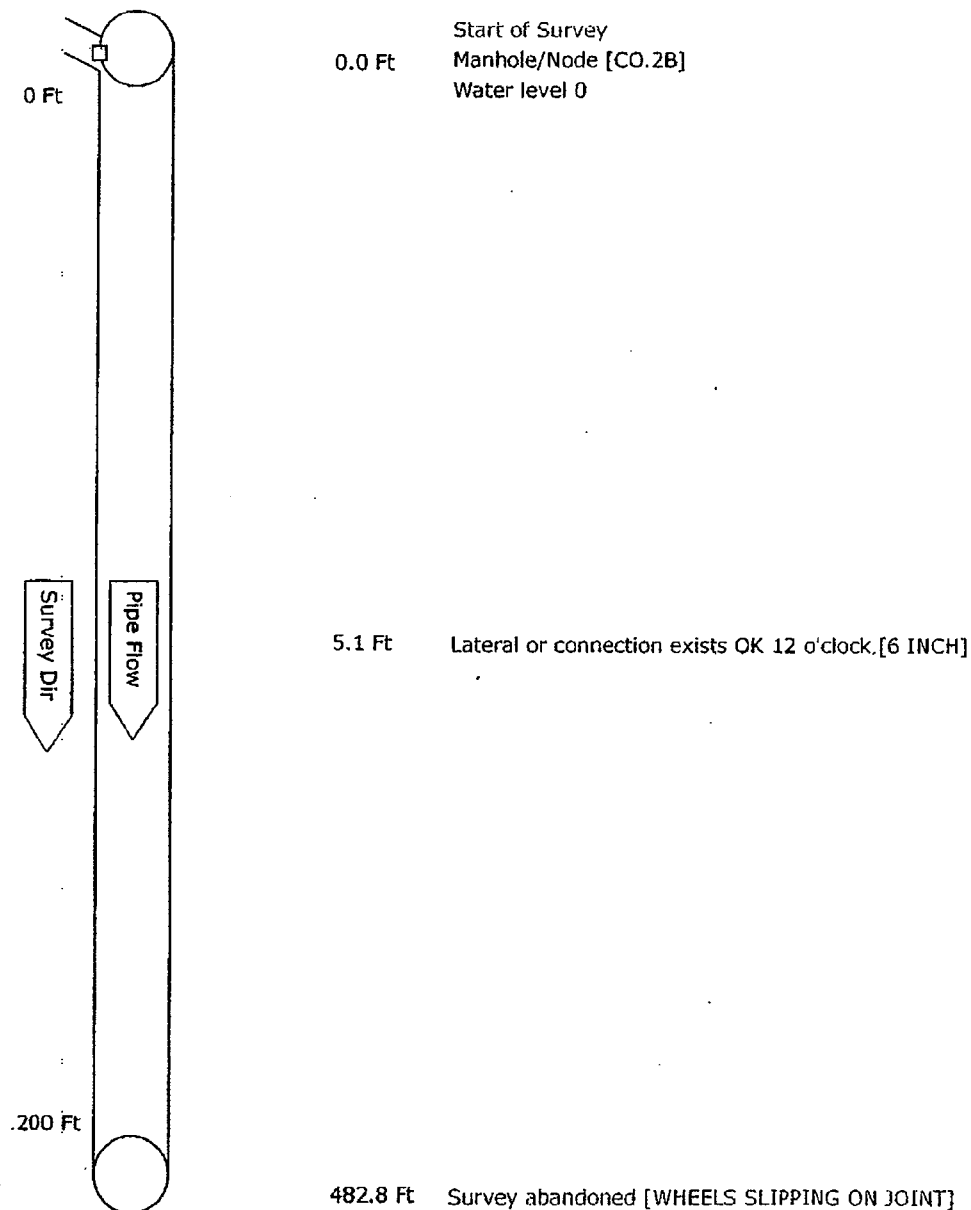


## Pipe Graphic Report of PLR CO.2B

X

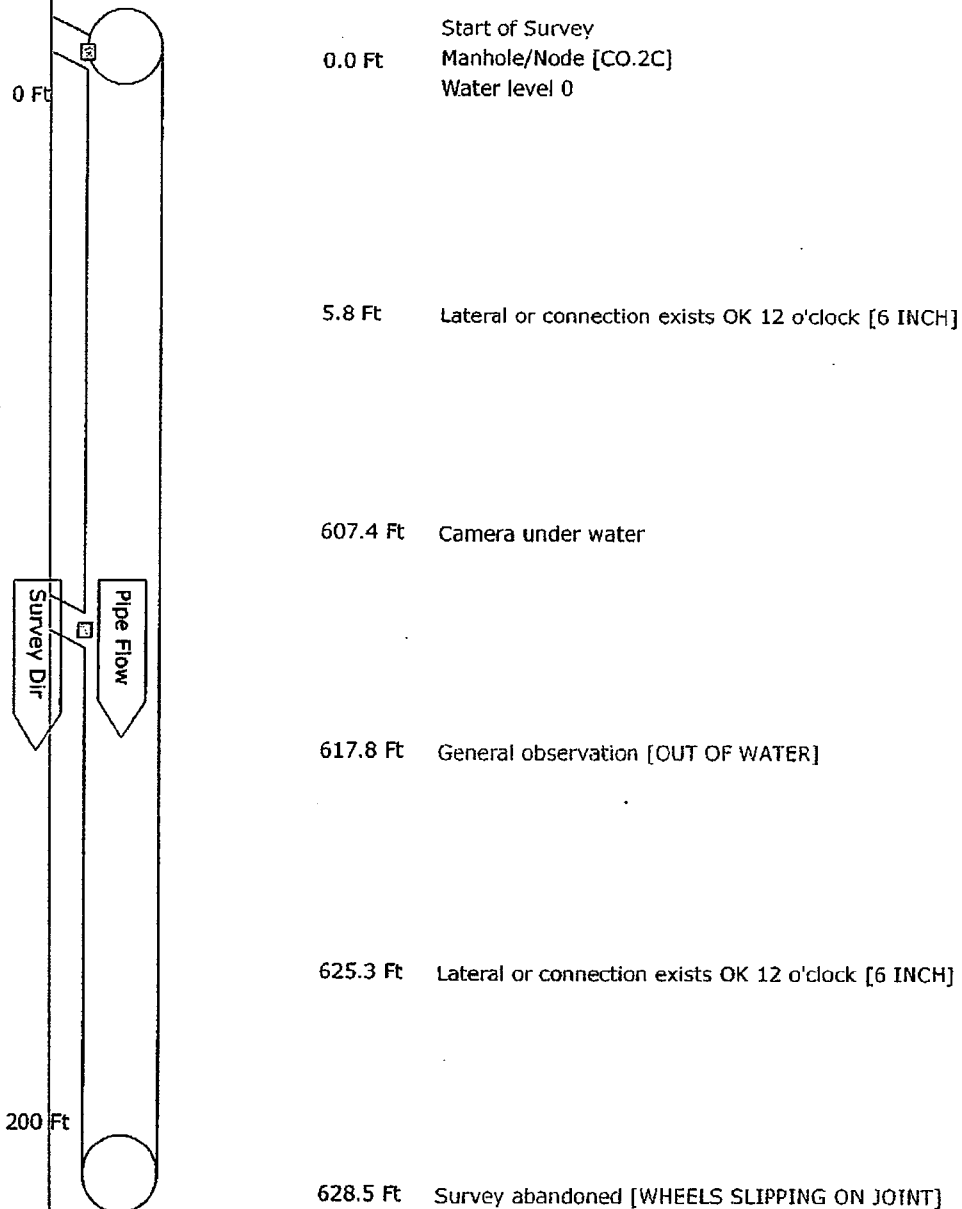
for WASTE MANAGEMENT

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 1	<b>Setup</b> 2
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/07/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b> Other (state in comments)	<b>Schedule length</b> 1200.0 Ft	<b>From</b> CO.2B	<b>Depth</b> Ft
<b>Shape</b> Circular	<b>Size</b> 8 <b>by</b> ins	<b>To</b> CO.1B	<b>Depth</b> Ft
<b>Material</b> Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Downstream	
<b>Lining</b>	<b>Year laid</b>	<b>Pre-clean</b> Y	<b>Last cleaned</b> 10/6/2008
<b>General note</b>	PRIMARY LEACHATE COLLECTION SYSTEM	<b>Structural</b>	<b>Service</b> <b>Constructional</b>
<b>Location note</b>	WEST SIDE CLEANOUTS.	<b>Miscellaneous</b>	<b>Hydraulic</b>



**Pipe Graphic Report of PLR CO.2C X for WASTE MANAGEMENT**

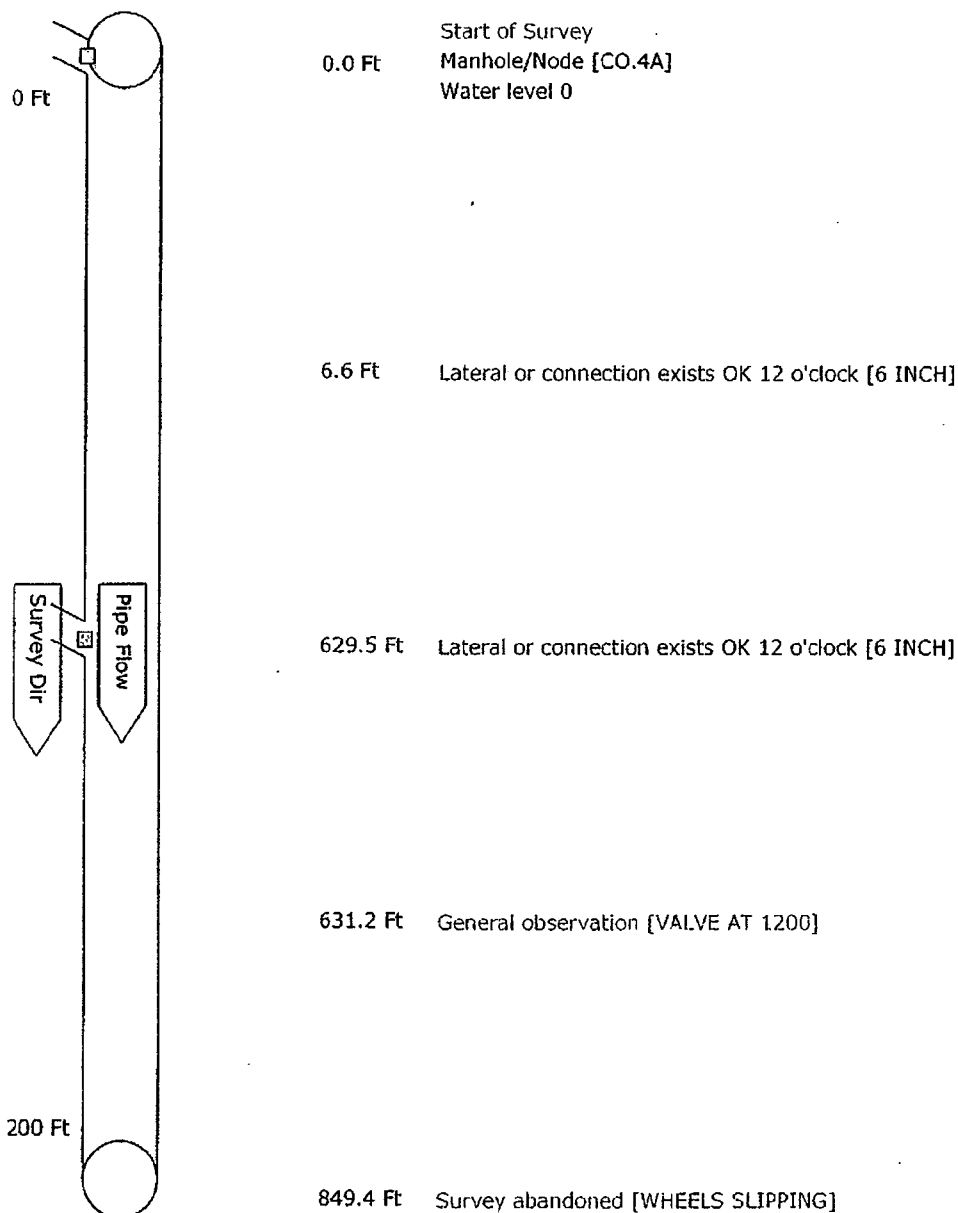
<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 1	<b>Setup</b> 3
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/07/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b>	Other (state in comments)	<b>Schedule length</b>	1200.0 Ft
<b>Shape</b>	Circular	<b>Size</b> 8 <b>by</b>	ins
<b>Material</b>	Polyethylene - High density	<b>Joint spacing</b>	Ft
<b>Lining</b>		<b>Year laid</b>	
<b>From</b>	CO.2C	<b>Depth</b>	Ft
<b>To</b>	CO.1C	<b>Depth</b>	Ft
<b>Direction</b>	Downstream		
<b>Pre-clean</b>	Y	<b>Last cleaned</b>	10/6/2008
<b>General note</b>	PRIMARY LEACHATE COLLECTION SYSTEM	<b>Structural</b>	Service
<b>Location note</b>	WEST SIDE CLEANOUTS.	<b>Miscellaneous</b>	Hydraulic
		<b>Constructional</b>	





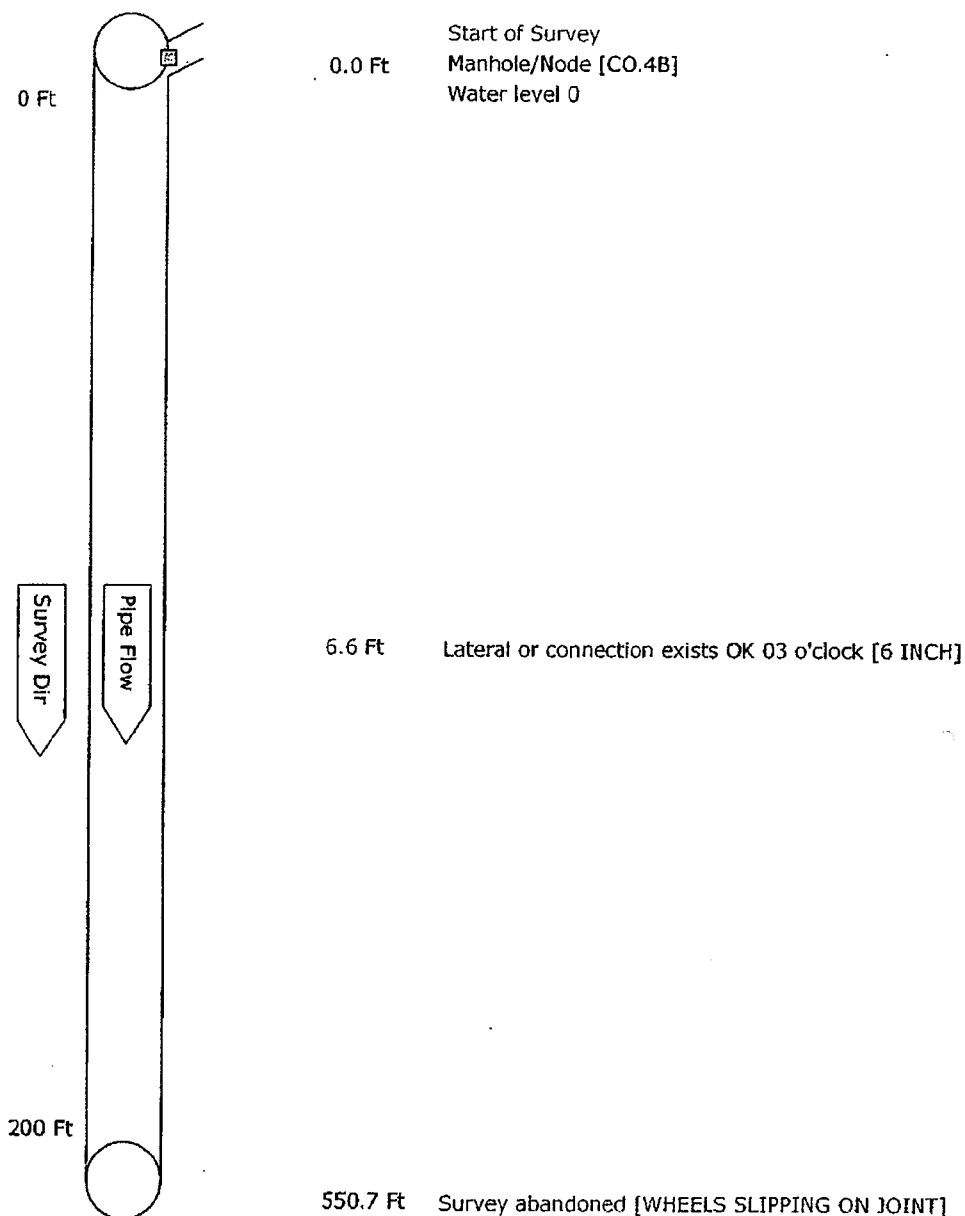
**Pipe Graphic Report of PLR CO.4A X for WASTE MANAGEMENT**

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 2	<b>Setup</b> 4
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/08/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b> Other (state in comments)	<b>Schedule length</b> 1200.0 Ft	<b>From</b> CO.4A	<b>Depth</b> Ft
<b>Shape</b> Circular	<b>Size</b> 8 <b>by</b> ins	<b>To</b> CO.3A	<b>Depth</b> Ft
<b>Material</b> Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Downstream	
<b>Lining</b>	<b>Year laid</b>	<b>Pre-clean</b> Y	<b>Last cleaned</b> 10/6/2008
<b>General note</b>	PRIMARY LEACHATE COLLECTION SYSTEM	<b>Structural</b>	<b>Service</b> <b>Constructional</b>
<b>Location note</b>	WEST SIDE CLEANOUTS.	<b>Miscellaneous</b>	<b>Hydraulic</b>



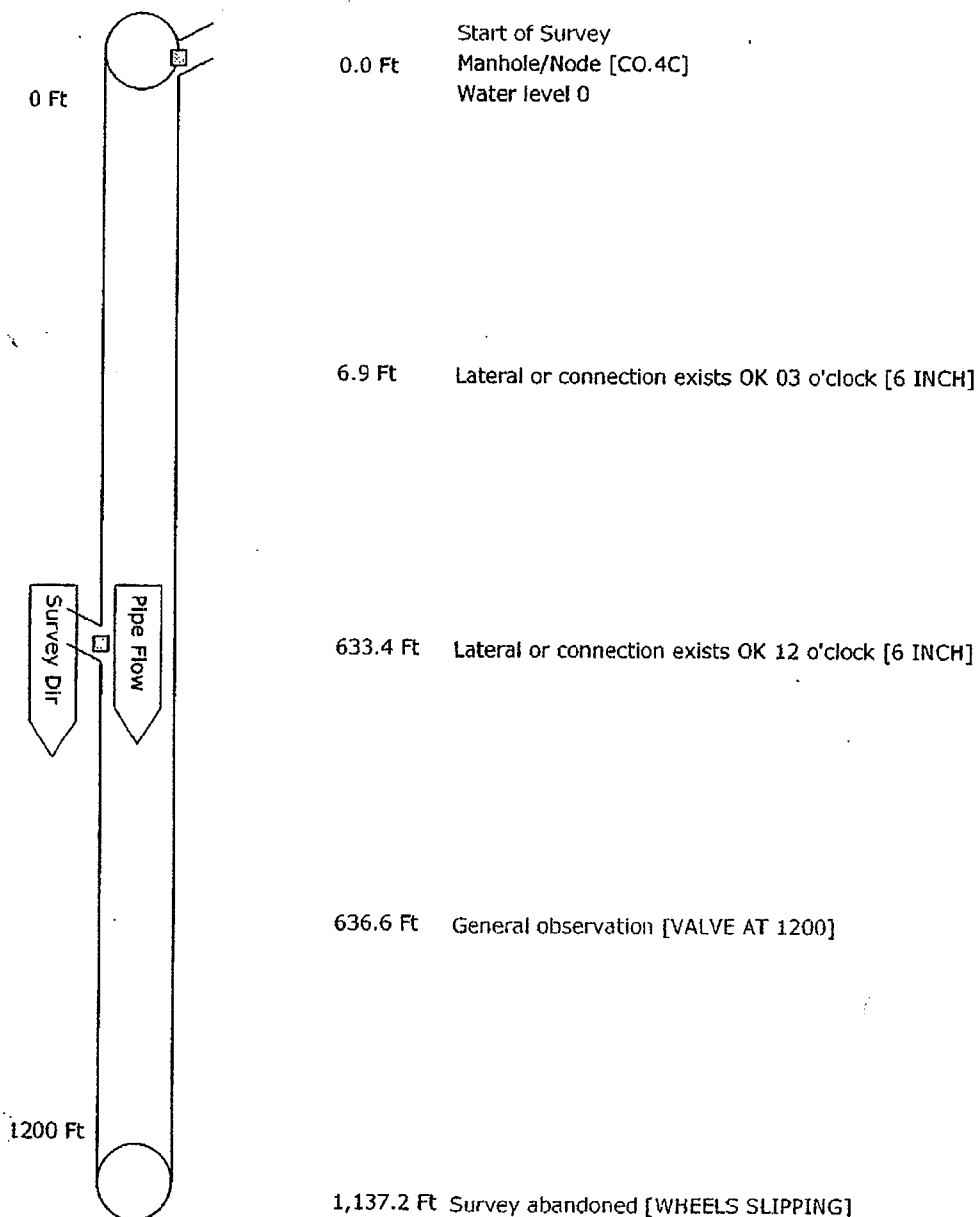
Pipe Graphic Report of PLR CO.4B X for WASTE MANAGEMENT

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 2	<b>Setup</b> 5
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/08/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b>	Other (state in comments)	<b>Schedule length</b>	1200.0 Ft
<b>Shape</b>	Circular	<b>Size</b> 8 <b>by</b> ins	
<b>Material</b>	Polyethylene - High density	<b>Joint spacing</b>	Ft
<b>Lining</b>		<b>Year laid</b>	
<b>From</b>	CO.4B	<b>Depth</b>	Ft
<b>To</b>	CO.3B	<b>Depth</b>	Ft
<b>Direction</b>	Downstream		
<b>Pre-clean</b>	Y	<b>Last cleaned</b>	10/6/2008
<b>General note</b>	PRIMARY LEACHATE COLLECTION SYSTEM	<b>Structural</b>	Service
<b>Location note</b>	WEST SIDE CLEANOUTS.	<b>Miscellaneous</b>	Hydraulic
		<b>Constructional</b>	



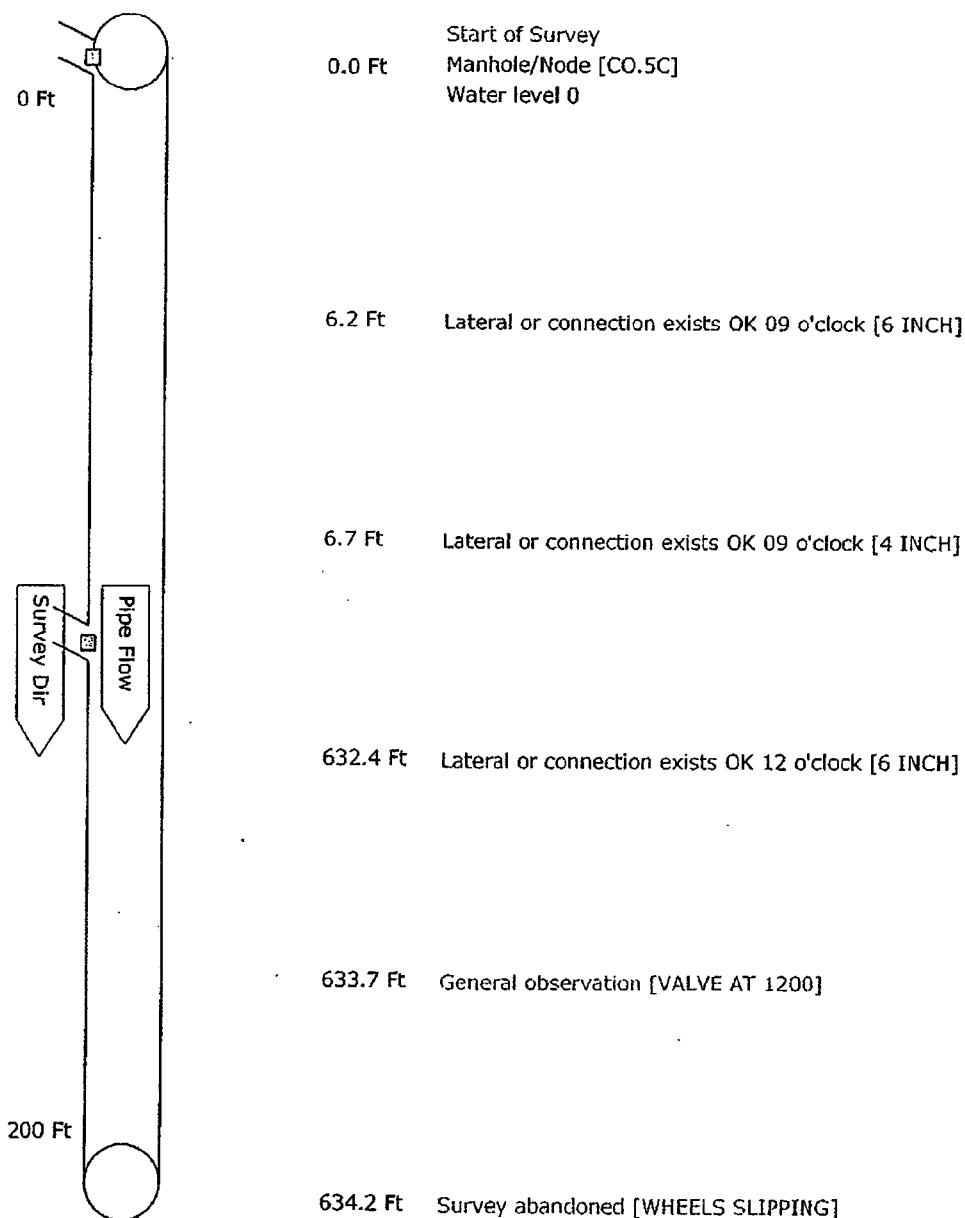
**Pipe Graphic Report of PLR CO.4C X for WASTE MANAGEMENT**

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 2	<b>Setup</b> 6
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/08/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b> Other (state in comments)	<b>Schedule length</b> 1200.0 Ft	<b>From</b> CO.4C	<b>Depth</b> Ft
<b>Shape</b> Circular	<b>Size</b> 8 <b>by</b> ins	<b>To</b> CO.3C	<b>Depth</b> Ft
<b>Material</b> Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Downstream	
<b>Lining</b>	<b>Year laid</b>	<b>Pre-clean</b> Y	<b>Last cleaned</b> 10/6/2008
<b>General note</b>	PRIMARY LEACHATE COLLECTION SYSTEM	<b>Structural</b>	<b>Service</b> <b>Constructional</b>
<b>Location note</b>	WEST SIDE CLEANOUTS.	<b>Miscellaneous</b>	<b>Hydraulic</b>



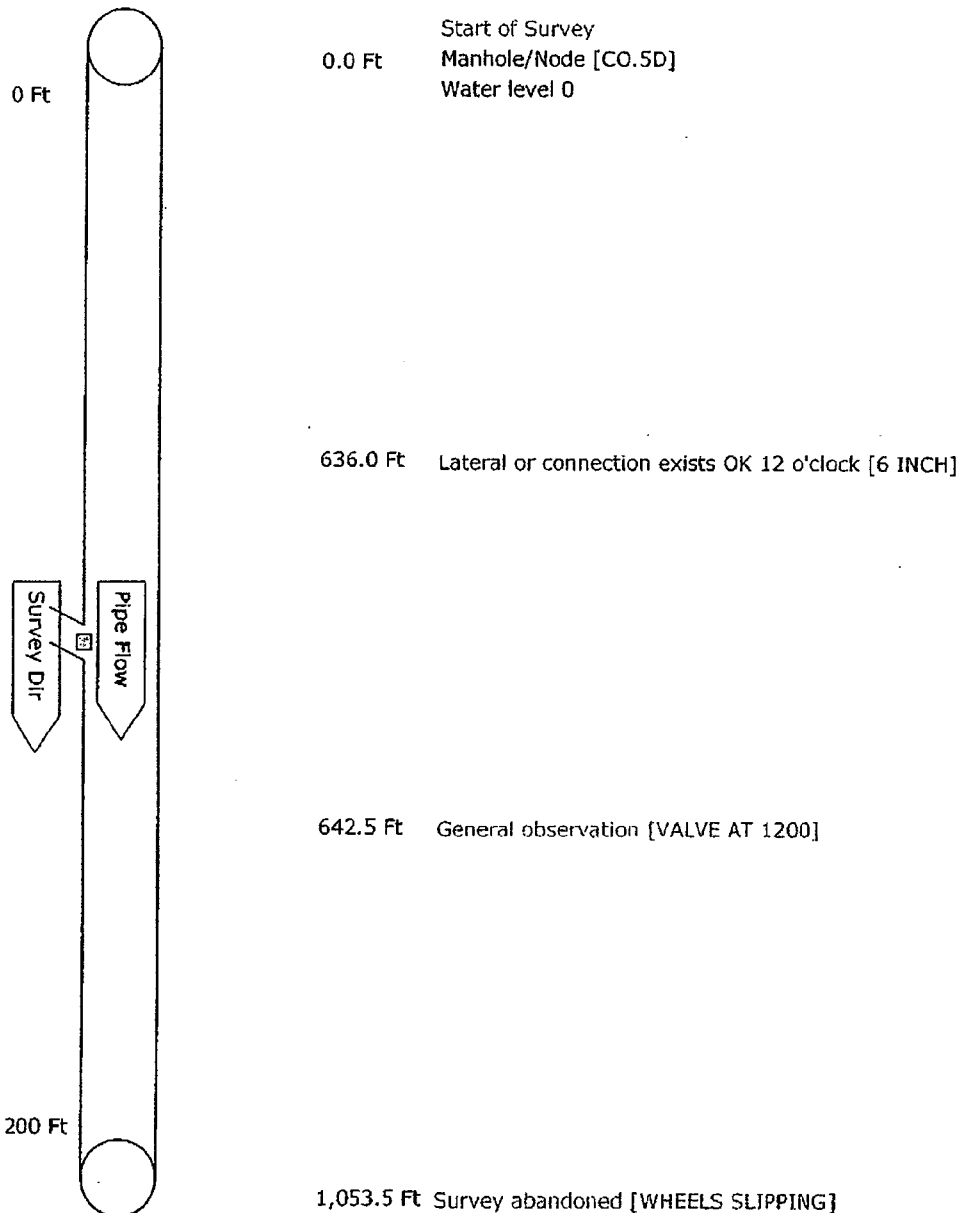
**Pipe Graphic Report of PLR CO.5C X for WASTE MANAGEMENT**

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 3	<b>Setup</b> 7
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/08/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b> Other (state in comments)	<b>Schedule length</b> 1200.0 Ft	<b>From</b> CO.5C	<b>Depth</b> Ft
<b>Shape</b> Circular	<b>Size</b> 8 <b>by</b> ins	<b>To</b> CO.5A	<b>Depth</b> Ft
<b>Material</b> Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Downstream	
<b>Lining</b>	<b>Year laid</b>	<b>Pre-clean</b> Y	<b>Last cleaned</b> 10/6/2008
<b>General note</b>	PRIMARY LEACHATE COLLECTION SYSTEM	<b>Structural</b>	<b>Service</b> <b>Constructional</b>
<b>Location note</b>	WEST SIDE CLEANOUTS.	<b>Miscellaneous</b>	<b>Hydraulic</b>



**Pipe Graphic Report of PLR CO.5D**
**X**
**for WASTE MANAGEMENT**

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 3	<b>Setup</b> 8
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/08/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b> Other (state in comments)	<b>Schedule length</b> 1200.0 Ft	<b>From</b> CO.5D	<b>Depth</b> Ft
<b>Shape</b> Circular	<b>Size</b> 8 <b>by</b> ins	<b>To</b> CO.5B	<b>Depth</b> Ft
<b>Material</b> Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b>	Downstream
<b>Lining</b>	<b>Year laid</b>	<b>Pre-clean</b> Y	<b>Last cleaned</b> 10/6/2008
<b>General note</b>	PRIMARY LEACHATE COLLECTION SYSTEM	<b>Structural</b>	<b>Service</b> <b>Constructional</b>
<b>Location note</b>	WEST SIDE CLEANOUTS.	<b>Miscellaneous</b>	<b>Hydraulic</b>

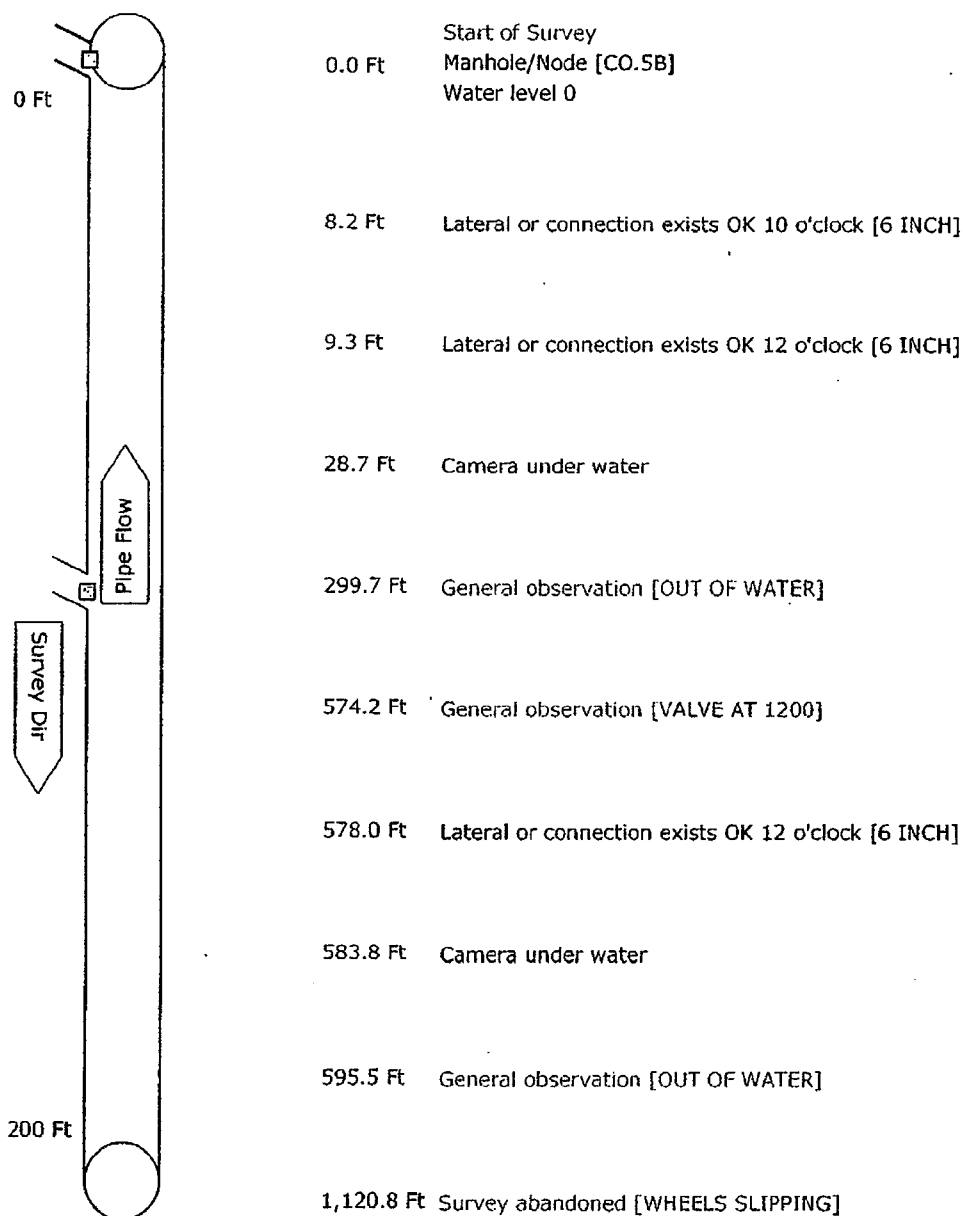


## Pipe Graphic Report of PLR CO5D

X

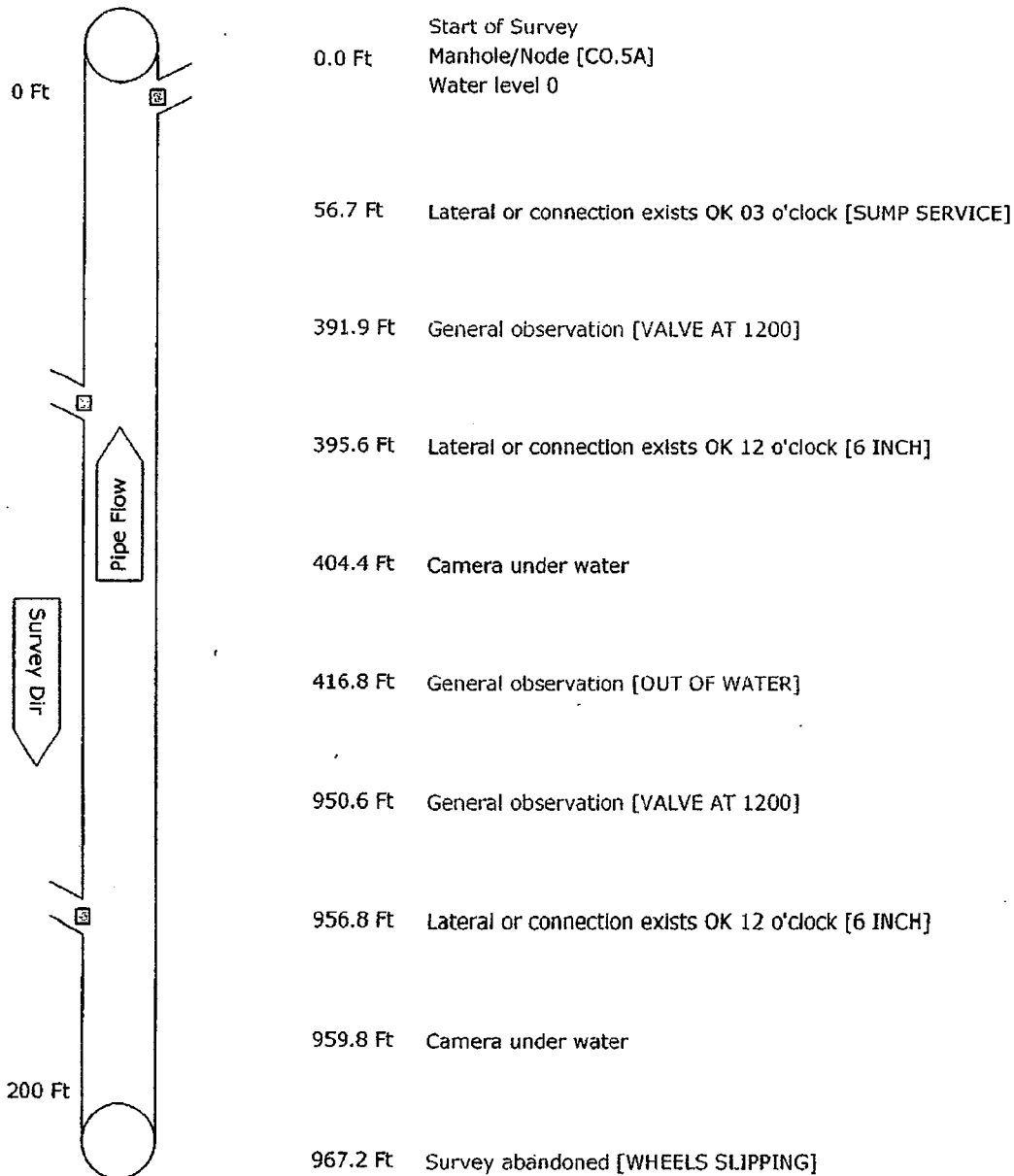
for WASTE MANAGEMENT

<b>Work Order</b>	<b>Contract</b>	<b>Video</b>	<b>4</b>	<b>Setup</b>	<b>9</b>
<b>Facility</b>	<b>Operator</b>	<b>Supervisor</b>	<b>Van Ref</b>	<b>3</b>	<b>Surveyed On</b>
<b>Street Name</b>	TRAIL RIDGE LANDFILL		<b>City</b>	TRAIL RIDGE LANDFILL	
<b>Location type</b>	Berm				
<b>Surface</b>					
<b>Survey purpose</b>	Random survey of pipes and things			<b>Weather</b>	Dry
<b>Pipe Use</b>	Other (state in comments)	<b>Schedule length</b>	1200.0 Ft	<b>From</b>	CO.5B
<b>Shape</b>	Circular	<b>Size</b>	8 by ins	<b>To</b>	CO5D
<b>Material</b>	Polyethylene - High density	<b>Joint spacing</b>	Ft	<b>Direction</b>	Upstream
<b>Lining</b>		<b>Year laid</b>		<b>Pre-clean</b>	Y
				<b>Last cleaned</b>	10/6/2008
<b>General note</b>	PRIMARY LEACHATE COLLECTION SYSTEM			<b>Structural</b>	Service
<b>Location note</b>	EAST SIDE CLEANOUTS.			<b>Miscellaneous</b>	Hydraulic
				<b>Constructional</b>	



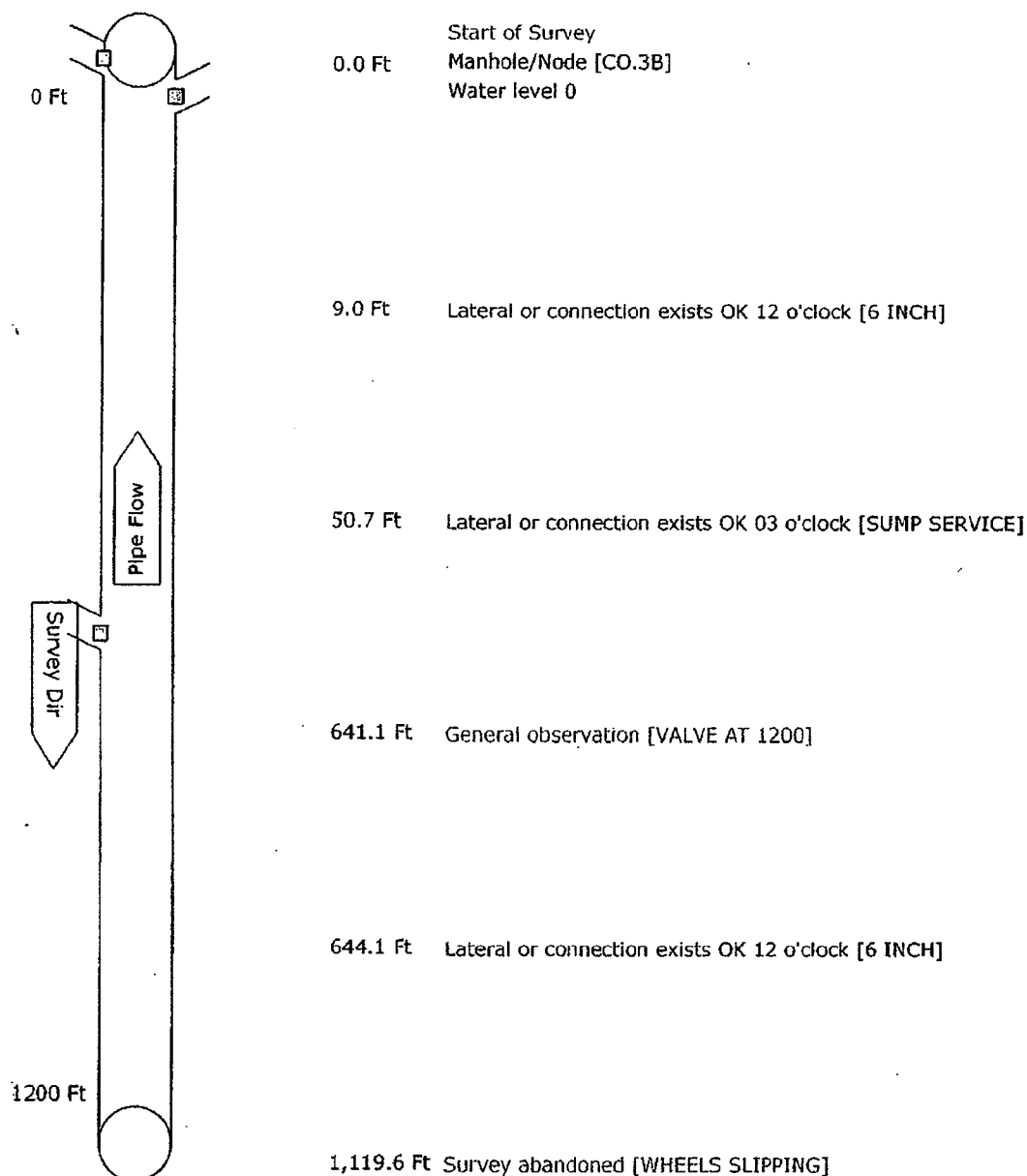
**Pipe Graphic Report of PLR CO5C**
**X**
**for WASTE MANAGEMENT**

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 4	<b>Setup</b> 10
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/09/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b> Other (state in comments)	<b>Schedule length</b> 1200.0 Ft	<b>From</b> CO.5A	<b>Depth</b> Ft
<b>Shape</b> Circular	<b>Size</b> 8 <b>by</b> ins	<b>To</b> CO5C	<b>Depth</b> Ft
<b>Material</b> Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Upstream	
<b>Lining</b>	<b>Year laid</b>	<b>Pre-clean</b> Y	<b>Last cleaned</b> 10/6/2008
<b>General note</b>	PRIMARY LEACHATE COLLECTION SYSTEM	<b>Structural</b>	<b>Service</b> <b>Constructional</b>
<b>Location note</b>	EAST SIDE CLEANOUTS.	<b>Miscellaneous</b>	<b>Hydraulic</b>



**Pipe Graphic Report of PLR CO4B X for WASTE MANAGEMENT**

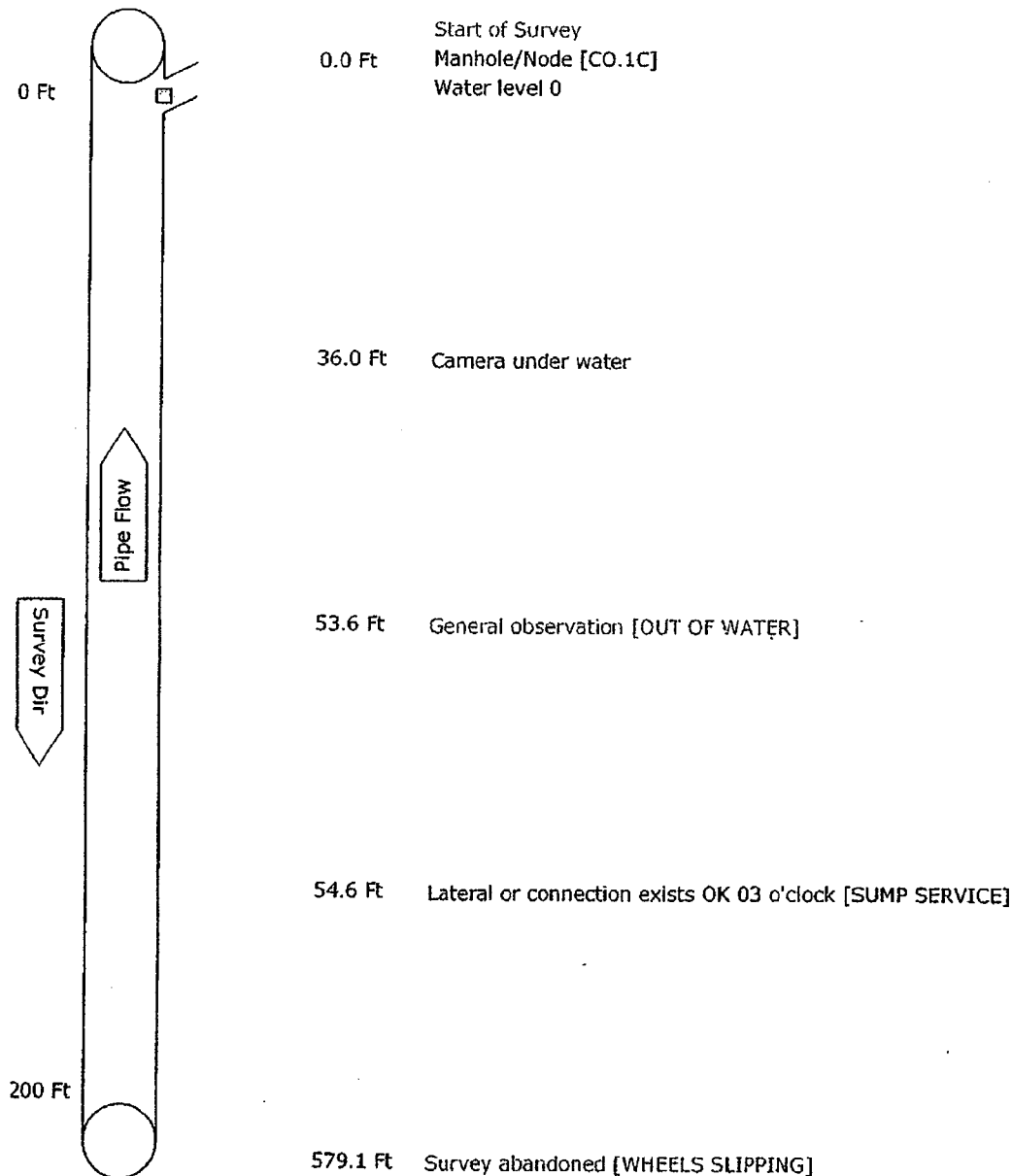
<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 5	<b>Setup</b> 11
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/09/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b>	Other (state in comments)	<b>Schedule length</b>	1200.0 Ft
<b>Shape</b>	Circular	<b>Size</b> 8 <b>by</b>	ins
<b>Material</b>	Polyethylene - High density	<b>Joint spacing</b>	Ft
<b>Lining</b>		<b>Year laid</b>	
<b>From</b>	CO.3B	<b>Depth</b>	Ft
<b>To</b>	CO4B	<b>Depth</b>	Ft
<b>Direction</b>	Upstream		
<b>Pre-clean</b>	Y	<b>Last cleaned</b>	10/6/2008
<b>General note</b>	PRIMARY LEACHATE COLLECTION SYSTEM	<b>Structural</b>	Service
<b>Location note</b>	EAST SIDE CLEANOUTS.	<b>Miscellaneous</b>	Hydraulic
		<b>Constructional</b>	





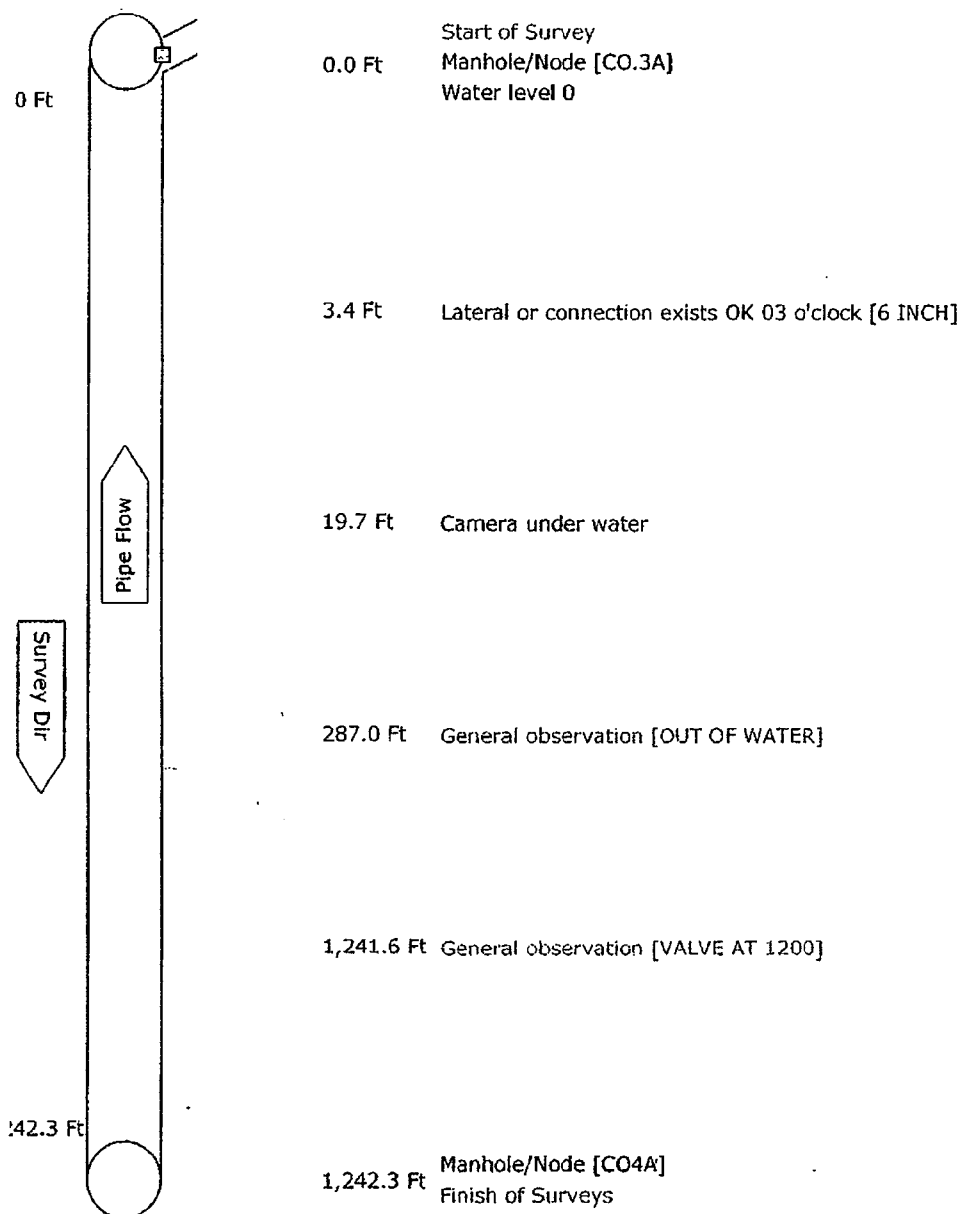
**Pipe Graphic Report of PLR CO2C X for WASTE MANAGEMENT**

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 5	<b>Setup</b> 12
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/10/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things		<b>Weather</b> Dry
<b>Pipe Use</b>	Other (state in comments)	<b>Schedule length</b> 1200.0 Ft	<b>From</b> CO.1C <b>Depth</b> Ft
<b>Shape</b>	Circular	<b>Size</b> 8 <b>by</b> ins	<b>To</b> CO2C <b>Depth</b> Ft
<b>Material</b>	Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Upstream
<b>Lining</b>		<b>Year laid</b>	<b>Pre-clean</b> Y <b>Last cleaned</b> 10/6/2008
<b>General note</b>	PRIMARY LEACHATE COLLECTION SYSTEM		<b>Structural</b> <b>Service</b> <b>Constructional</b>
<b>Location note</b>	EAST SIDE CLEANOUTS.		<b>Miscellaneous</b> <b>Hydraulic</b>



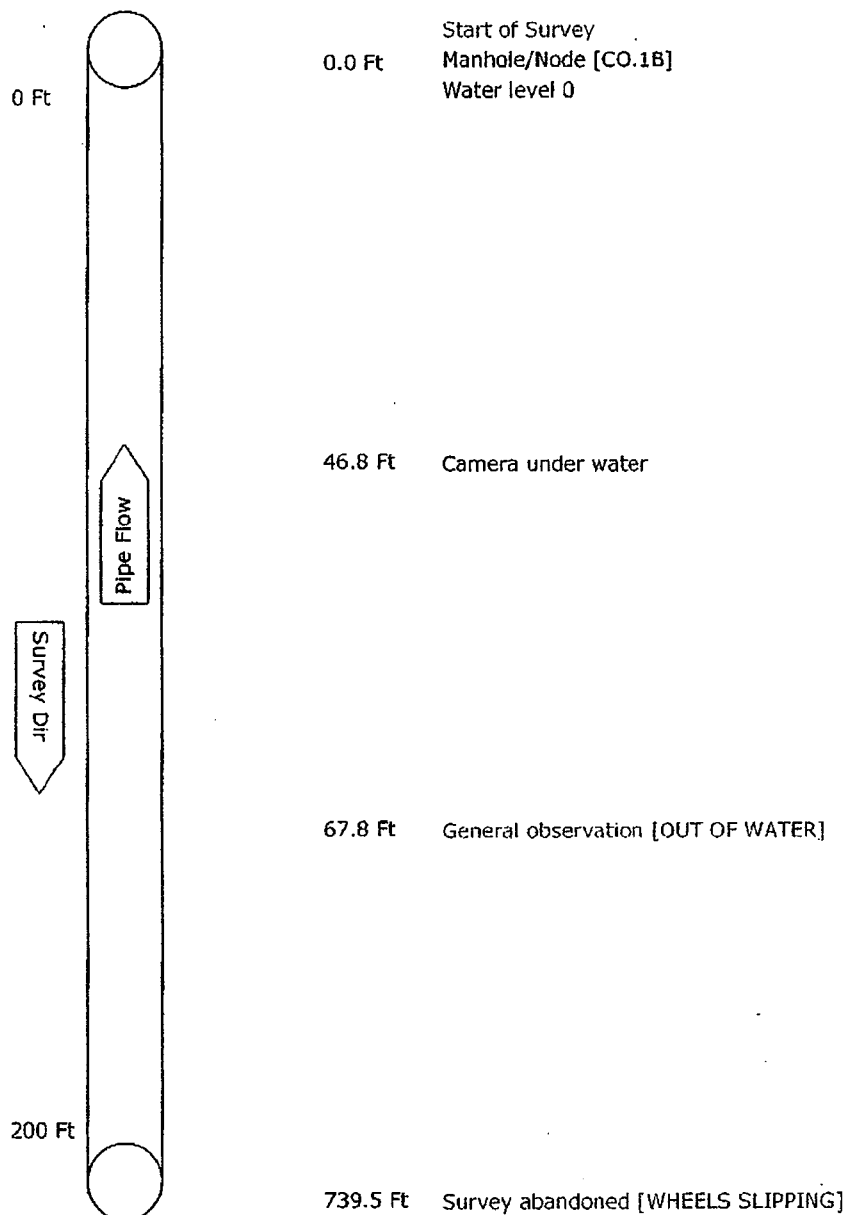
**Pipe Graphic Report of PLR CO4A**
**X**
**for WASTE MANAGEMENT**

<b>Work Order</b>	<b>Contract</b>	<b>Video</b>	<b>Setup</b>
<b>Facility</b>	<b>Operator</b>	<b>Van Ref</b>	<b>Surveyed On</b>
<b>Street Name</b> TRAIL RIDGE LANDFILL		<b>City</b> TRAIL RIDGE LANDFILL	
<b>Location type</b> Berm		<b>Surface</b>	
<b>Survey purpose</b> Random survey of pipes and things		<b>Weather</b> Dry	
<b>Pipe Use</b> Other (state in comments)	<b>Schedule length</b> 1242.3 Ft	<b>From</b> CO.3A	<b>Depth</b> Ft
<b>Shape</b> Circular	<b>Size</b> 8 <b>by</b> ins	<b>To</b> CO4A	<b>Depth</b> Ft
<b>Material</b> Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Upstream	
<b>Lining</b>	<b>Year laid</b>	<b>Pre-clean</b> Y	<b>Last cleaned</b> 10/6/2008
<b>General note</b> PRIMARY LEACHATE COLLECTION SYSTEM		<b>Structural</b>	<b>Service</b>
<b>Location note</b> EAST SIDE CLEANOUTS.		<b>Miscellaneous</b>	<b>Hydraulic</b>



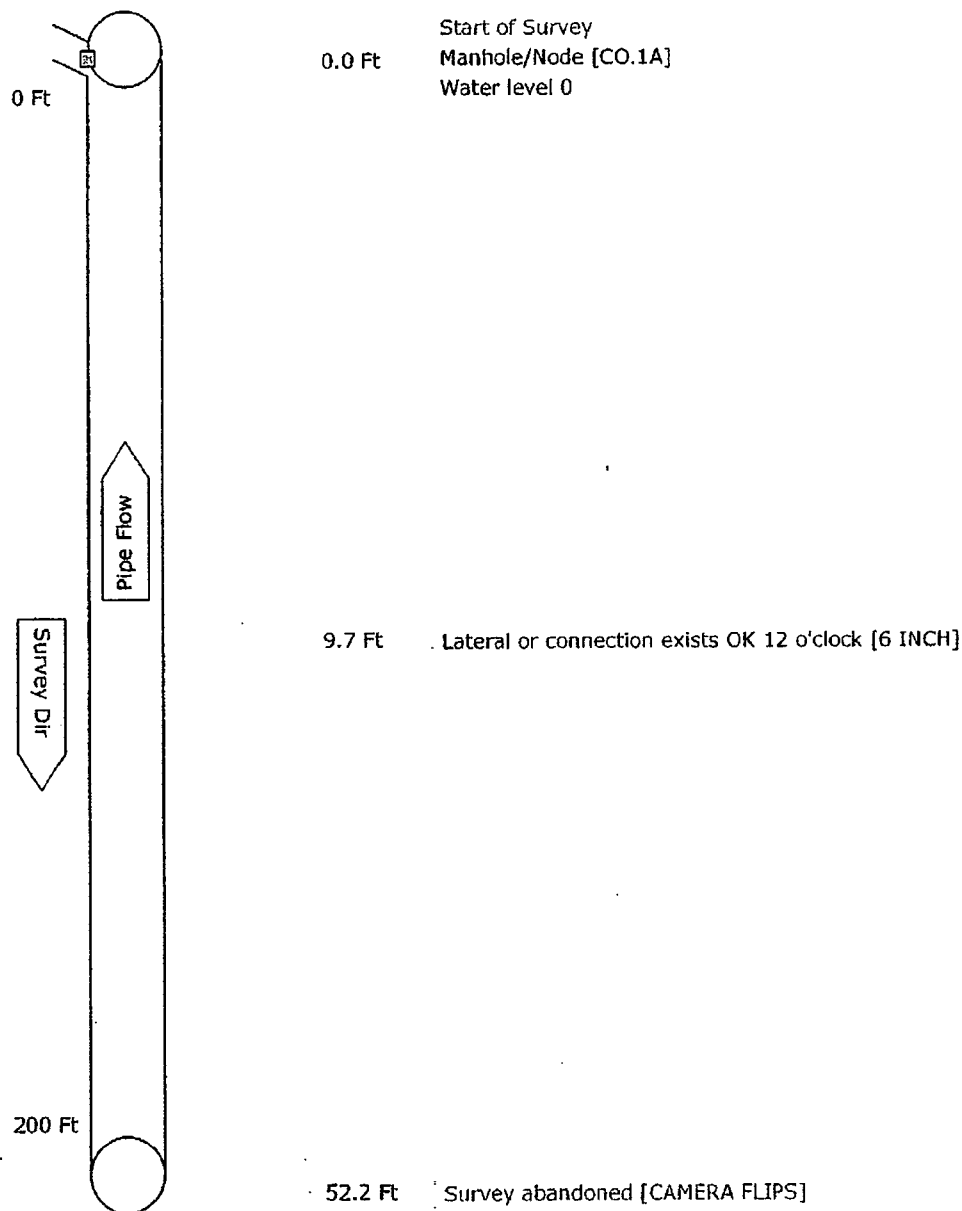
**Pipe Graphic Report of PLR CO2B W for WASTE MANAGEMENT**

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 6	<b>Setup</b> 14
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/13/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b>	Other (state in comments)	<b>Schedule length</b>	1200.0 Ft
<b>Shape</b>	Circular	<b>Size</b> 8 <b>by</b>	ins
<b>Material</b>	Polyethylene - High density	<b>Joint spacing</b>	Ft
<b>Lining</b>		<b>Year laid</b>	
<b>From</b>	CO.1B	<b>Depth</b>	Ft
<b>To</b>	CO2B	<b>Depth</b>	Ft
<b>Direction</b>	Upstream		
<b>Pre-clean</b>	Y	<b>Last cleaned</b>	10/6/2008
<b>General note</b>	PRIMARY LEACHATE COLLECTION SYSTEM	<b>Structural</b>	Service Constructional
<b>Location note</b>	EAST SIDE CLEANOUTS.	<b>Miscellaneous</b>	Hydraulic



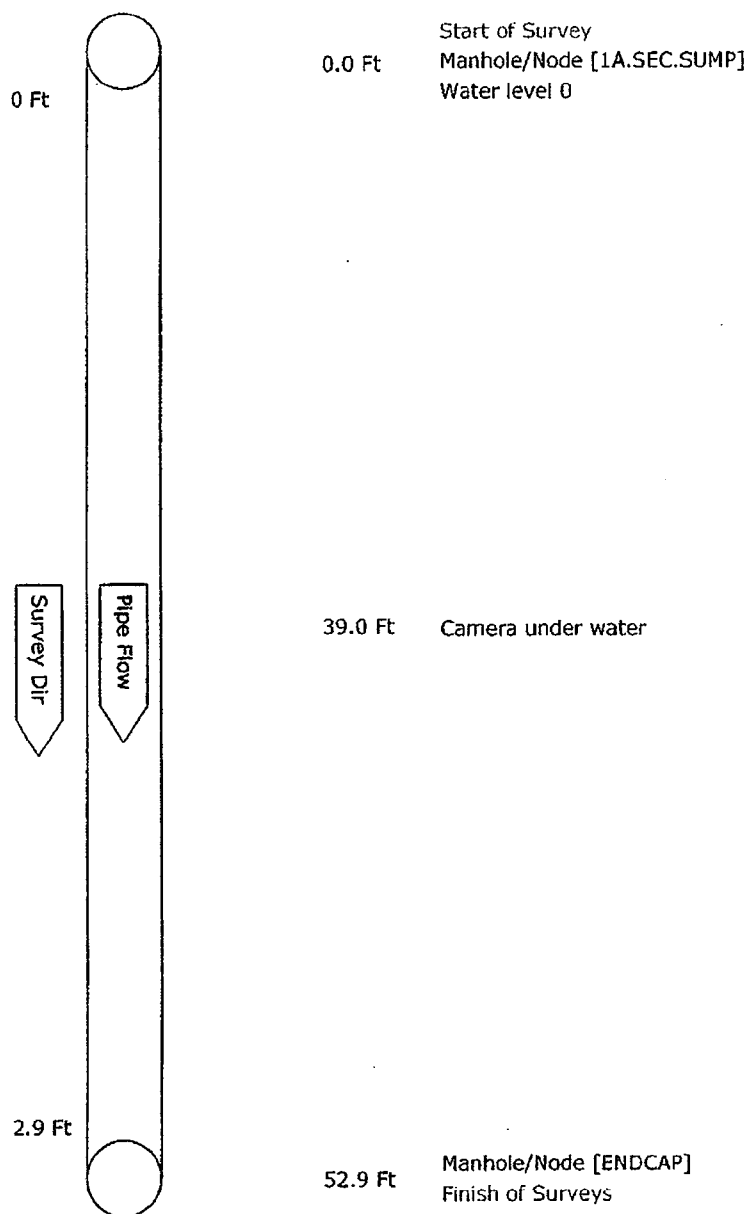
# Pipe Graphic Report of PLR CO2A W for WASTE MANAGEMENT

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 6	<b>Setup</b> 15
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/14/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b>	Other (state in comments)	<b>Schedule length</b>	1200.0 Ft
<b>Shape</b>	Circular	<b>Size</b> 8 <b>by</b>	ins
<b>Material</b>	Polyethylene - High density	<b>Joint spacing</b>	Ft
<b>Lining</b>		<b>Year laid</b>	
<b>From</b>	CO.1A	<b>Depth</b>	Ft
<b>To</b>	CO2A	<b>Depth</b>	Ft
<b>Direction</b>	Upstream		
<b>Pre-clean</b>	Y	<b>Last cleaned</b>	10/6/2008
<b>General note</b>	PRIMARY LEACHATE COLLECTION SYSTEM	<b>Structural</b>	Service Constructional
<b>Location note</b>	EAST SIDE CLEANOUTS.	<b>Miscellaneous</b>	Hydraulic



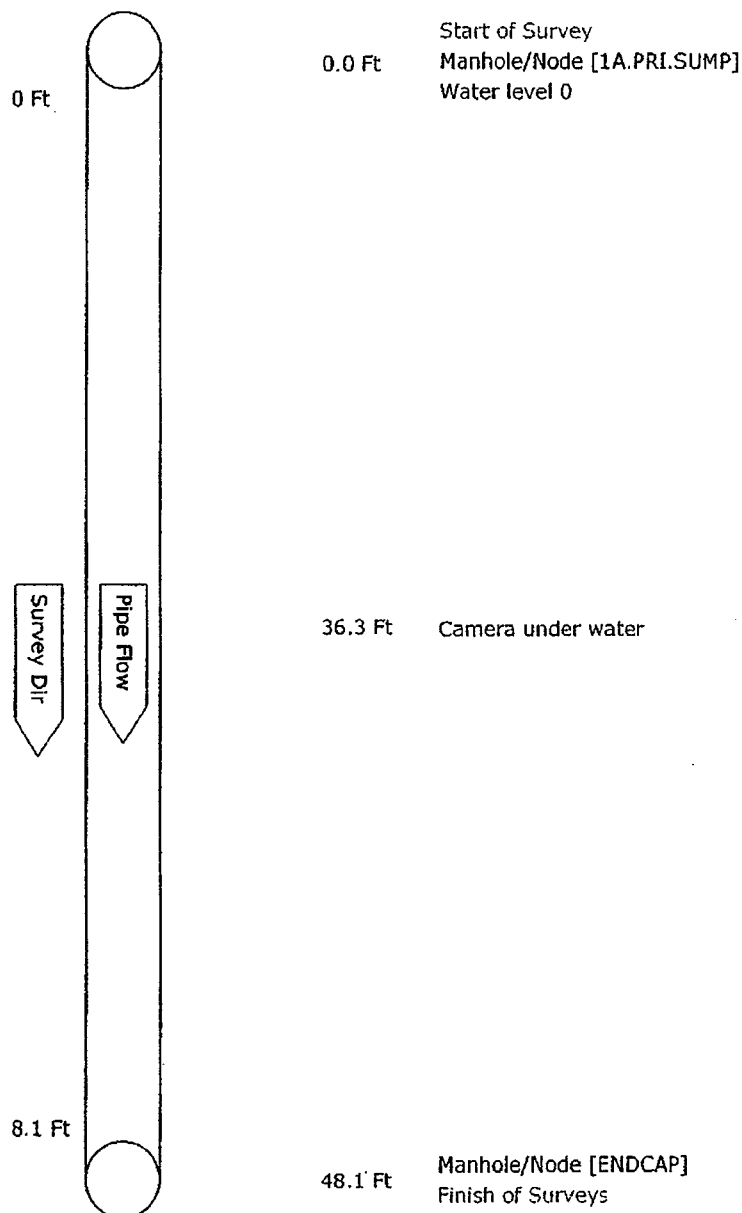
# Pipe Graphic Report of PLR 1A.SEC.SUMP W for WASTE MANAGEMENT

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 7	<b>Setup</b> 16
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/14/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b>	Other (state in comments)	<b>Schedule length</b>	52.9 Ft
<b>Shape</b>	Circular	<b>Size</b> 24 by ins	
<b>Material</b>	Polyethylene - High density	<b>Joint spacing</b>	Ft
<b>Lining</b>		<b>Year laid</b>	
<b>From</b>	1A.SEC.SUMP	<b>Depth</b>	Ft
<b>To</b>	ENDCAP	<b>Depth</b>	Ft
<b>Direction</b>	Downstream		
<b>Pre-clean</b>		<b>Last cleaned</b>	
<b>General note</b>	PRIMARY LEACHATE COLLECTION SUMPS	Structural	Service Constructional
<b>Location note</b>	PRIMARY AND SEC SUMPS.	Miscellaneous	Hydraulic



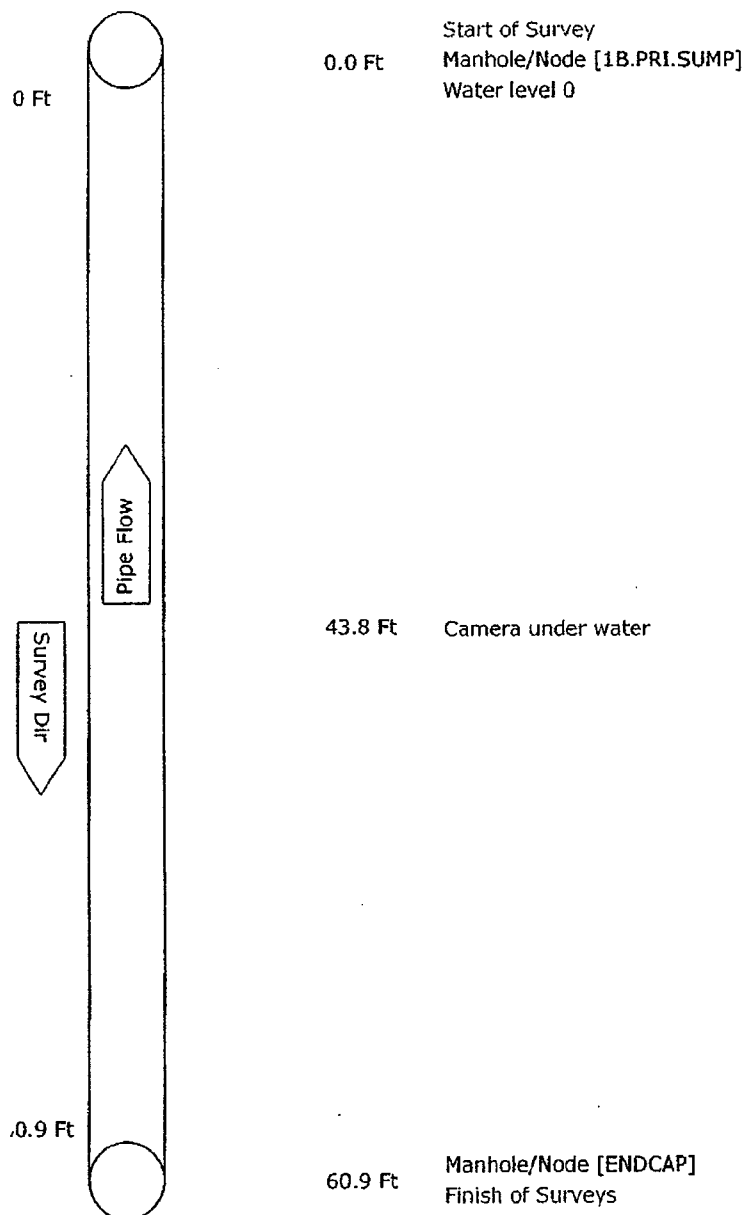
**Pipe Graphic Report of PLR 1A.PRI.SUMP W for WASTE MANAGEMENT**

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 7	<b>Setup</b> 17
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/14/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b> Other (state in comments)	<b>Schedule length</b> 48.1 Ft	<b>From</b> 1A.PRI.SUMP	<b>Depth</b> Ft
<b>Shape</b> Circular	<b>Size</b> 24 <b>by</b> ins	<b>To</b> ENDCAP	<b>Depth</b> Ft
<b>Material</b> Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Downstream	
<b>Lining</b>	<b>Year laid</b>	<b>Pre-clean</b>	<b>Last cleaned</b>
<b>General note</b>	PRIMARY LEACHATE COLLECTION SUMPS	Structural	Service
<b>Location note</b>	PRIMARY AND SEC SUMPS.	Miscellaneous	Hydraulic
		Constructional	



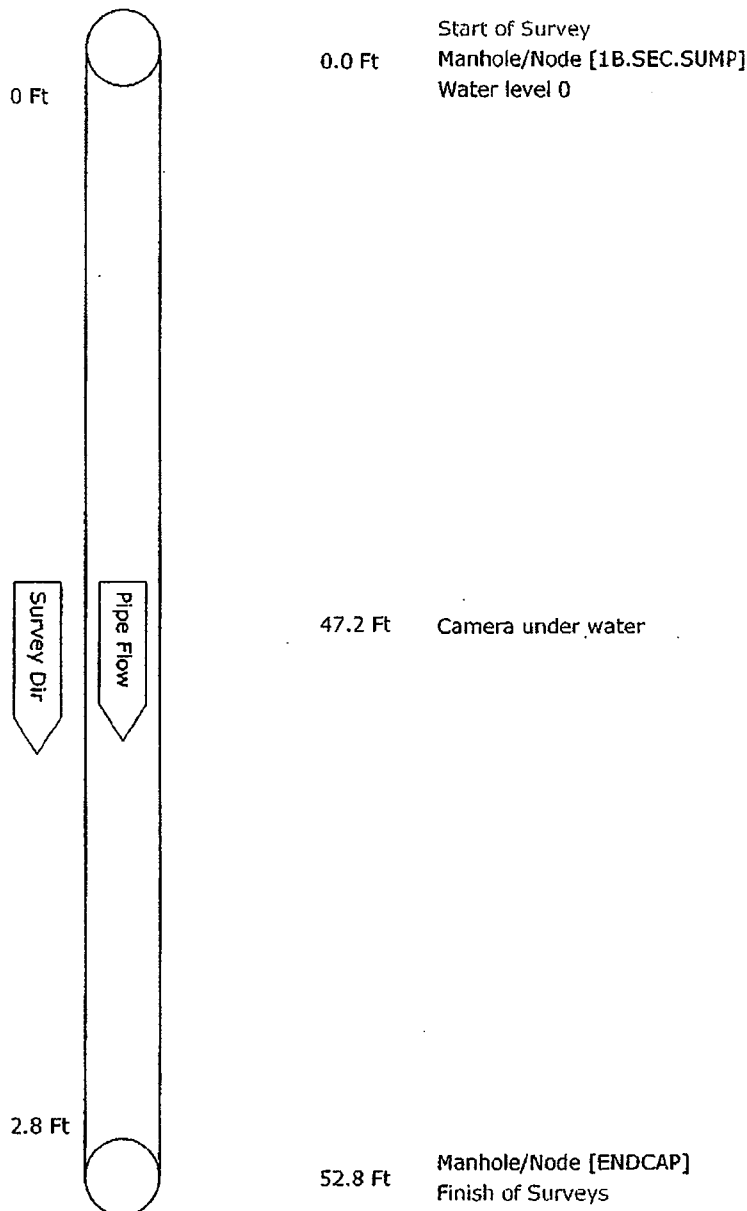
# Pipe Graphic Report of PLR ENDCAP W for WASTE MANAGEMENT

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 7	<b>Setup</b> 18
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/14/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b>	Other (state in comments)	<b>Schedule length</b> 60.9 Ft	<b>From</b> 1B.PRI.SUMP <b>Depth</b> Ft
<b>Shape</b>	Circular	<b>Size</b> 24 <b>by</b> ins	<b>To</b> ENDCAP <b>Depth</b> Ft
<b>Material</b>	Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Upstream
<b>Lining</b>		<b>Year laid</b>	<b>Pre-clean</b> <b>Last cleaned</b>
<b>General note</b>	PRIMARY LEACHATE COLLECTION SUMPS	<b>Structural</b>	<b>Service</b> <b>Constructional</b>
<b>Location note</b>	PRIMARY AND SEC SUMPS.	<b>Miscellaneous</b>	<b>Hydraulic</b>



**Pipe Graphic Report of PLR 1B.SEC.SUMP W for WASTE MANAGEMENT**

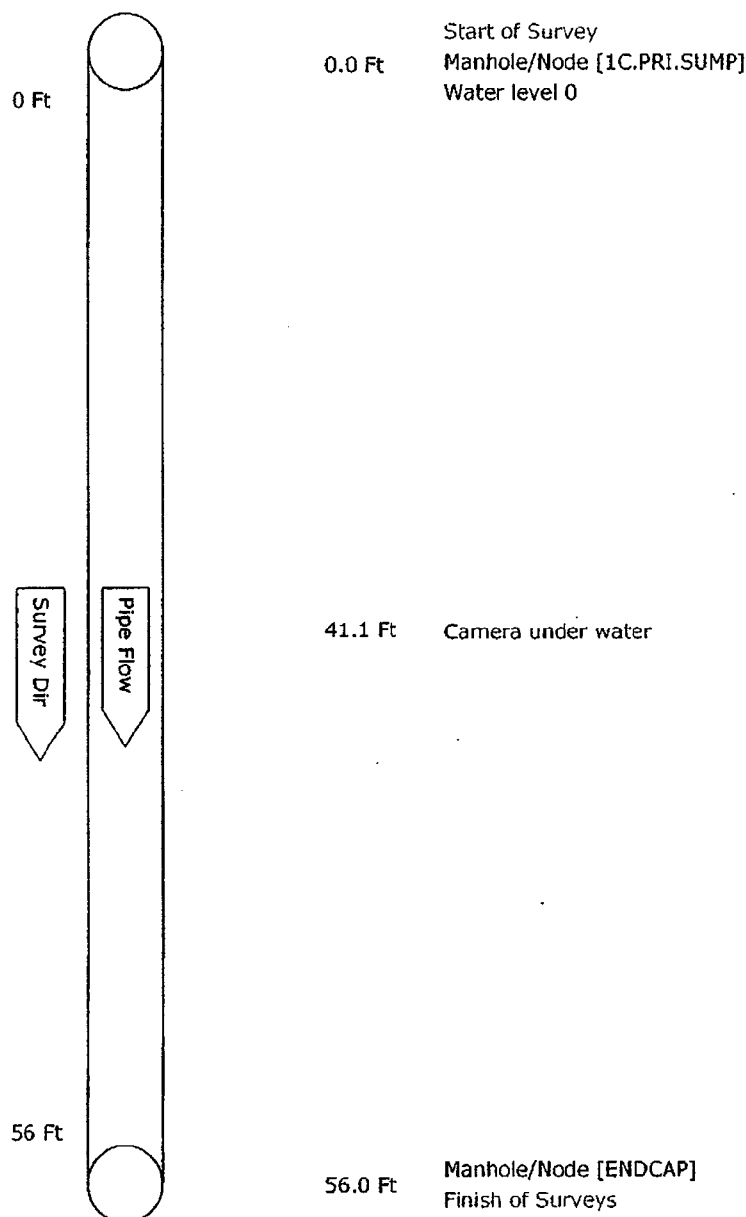
<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 7	<b>Setup</b> 19
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/14/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b> Other (state in comments)	<b>Schedule length</b> 52.8 Ft	<b>From</b> 1B.SEC.SUMP	<b>Depth</b> Ft
<b>Shape</b> Circular	<b>Size</b> 24 <b>by</b> ins	<b>To</b> ENDCAP	<b>Depth</b> Ft
<b>Material</b> Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Downstream	
<b>Lining</b>	<b>Year laid</b>	<b>Pre-clean</b>	<b>Last cleaned</b>
<b>General note</b>	PRIMARY LEACHATE COLLECTION SUMPS	Structural	Service
<b>Location note</b>	PRIMARY AND SEC SUMPS.	Miscellaneous	Hydraulic
		Constructional	





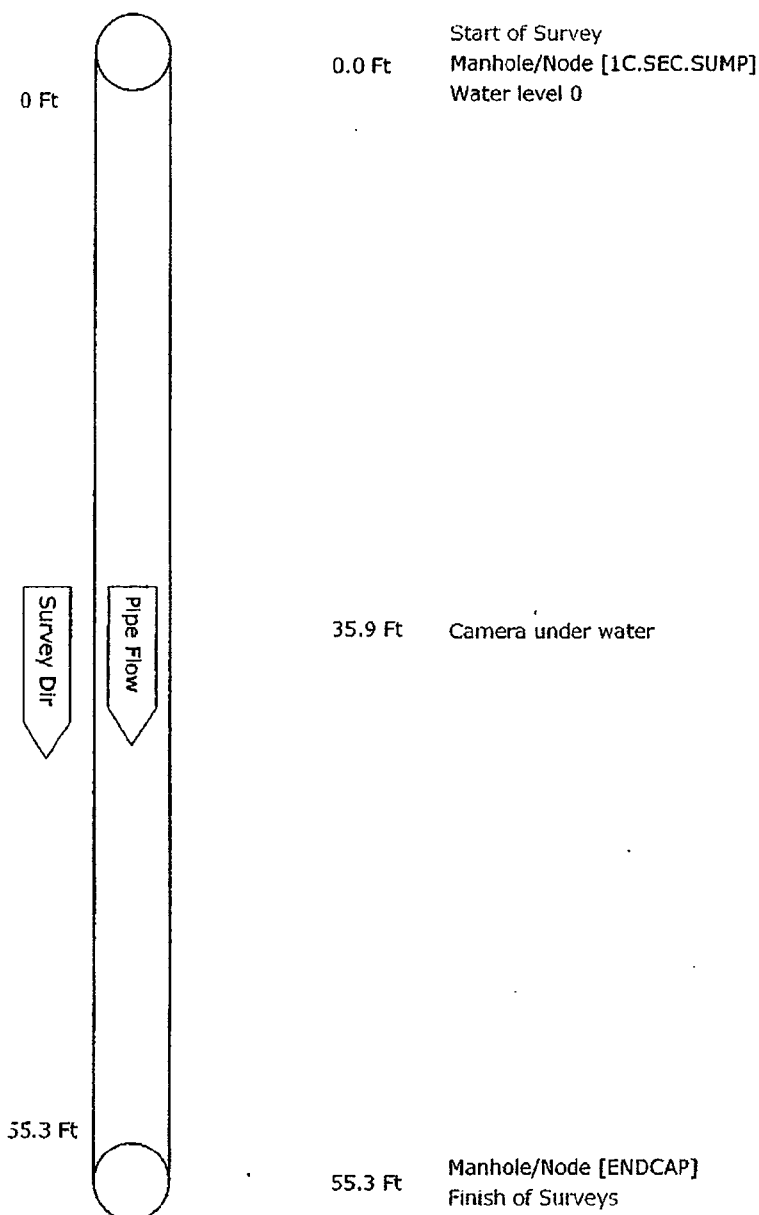
# Pipe Graphic Report of PLR 1C.PRI.SUMP W for WASTE MANAGEMENT

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 7	<b>Setup</b> 20
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/14/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b>	Other (state in comments)	<b>Schedule length</b>	56.0 Ft
<b>Shape</b>	Circular	<b>Size</b> 24 <b>by</b>	ins
<b>Material</b>	Polyethylene - High density	<b>Joint spacing</b>	Ft
<b>Lining</b>		<b>Year laid</b>	
<b>From</b>	1C.PRI.SUMP	<b>Depth</b>	Ft
<b>To</b>	ENDCAP	<b>Depth</b>	Ft
<b>Direction</b>	Downstream		
<b>Pre-clean</b>		<b>Last cleaned</b>	
<b>General note</b>	PRIMARY LEACHATE COLLECTION SUMPS	<b>Structural</b>	Service
<b>Location note</b>	PRIMARY AND SEC SUMPS.	<b>Miscellaneous</b>	Hydraulic
		<b>Constructional</b>	



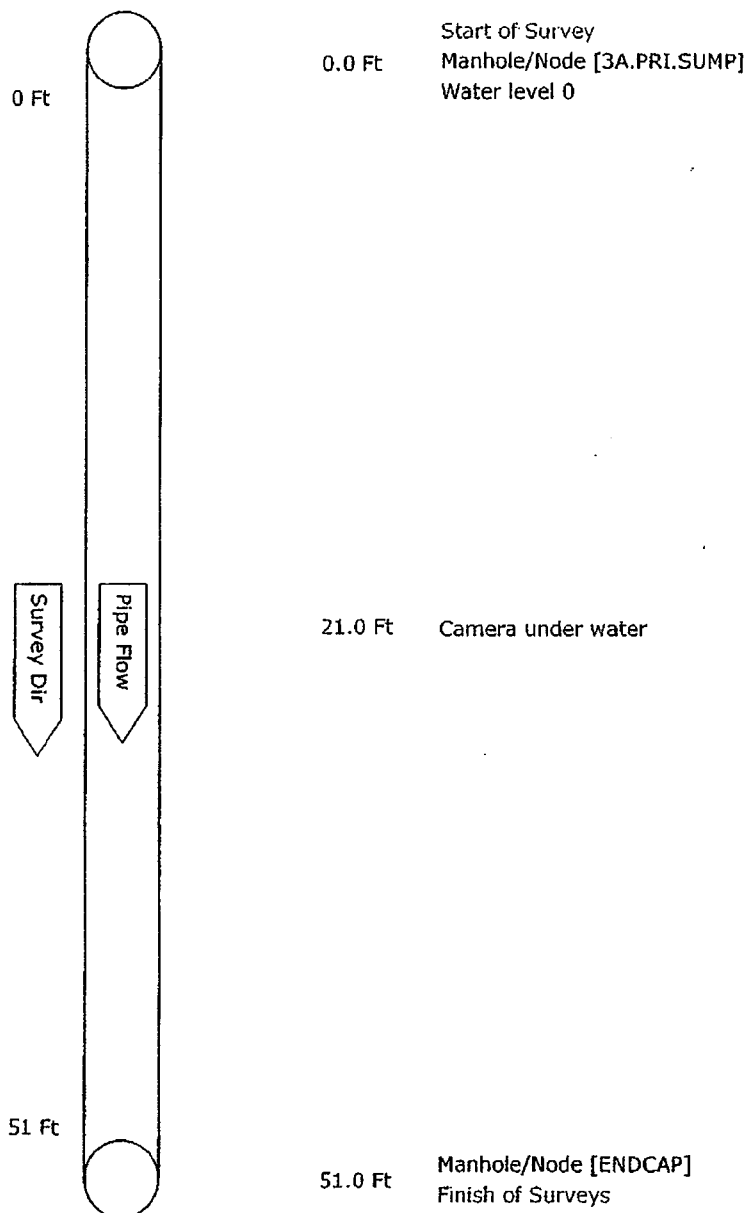
**Pipe Graphic Report of PLR 1C.SEC.SUMP W for WASTE MANAGEMENT**

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 7	<b>Setup</b> 21
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/14/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b> Other (state in comments)	<b>Schedule length</b> 55.3 Ft	<b>From</b> 1C.SEC.SUMP	<b>Depth</b> Ft
<b>Shape</b> Circular	<b>Size</b> 24 <b>by</b> ins	<b>To</b> ENDCAP	<b>Depth</b> Ft
<b>Material</b> Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Downstream	
<b>Lining</b>	<b>Year laid</b>	<b>Pre-clean</b>	<b>Last cleaned</b>
<b>General note</b>	PRIMARY LEACHATE COLLECTION SUMPS	<b>Structural</b>	<b>Service</b> <b>Constructional</b>
<b>Location note</b>	PRIMARY AND SEC SUMPS.	<b>Miscellaneous</b>	<b>Hydraulic</b>



**Pipe Graphic Report of PLR 3A.PRI.SUMP W for WASTE MANAGEMENT**

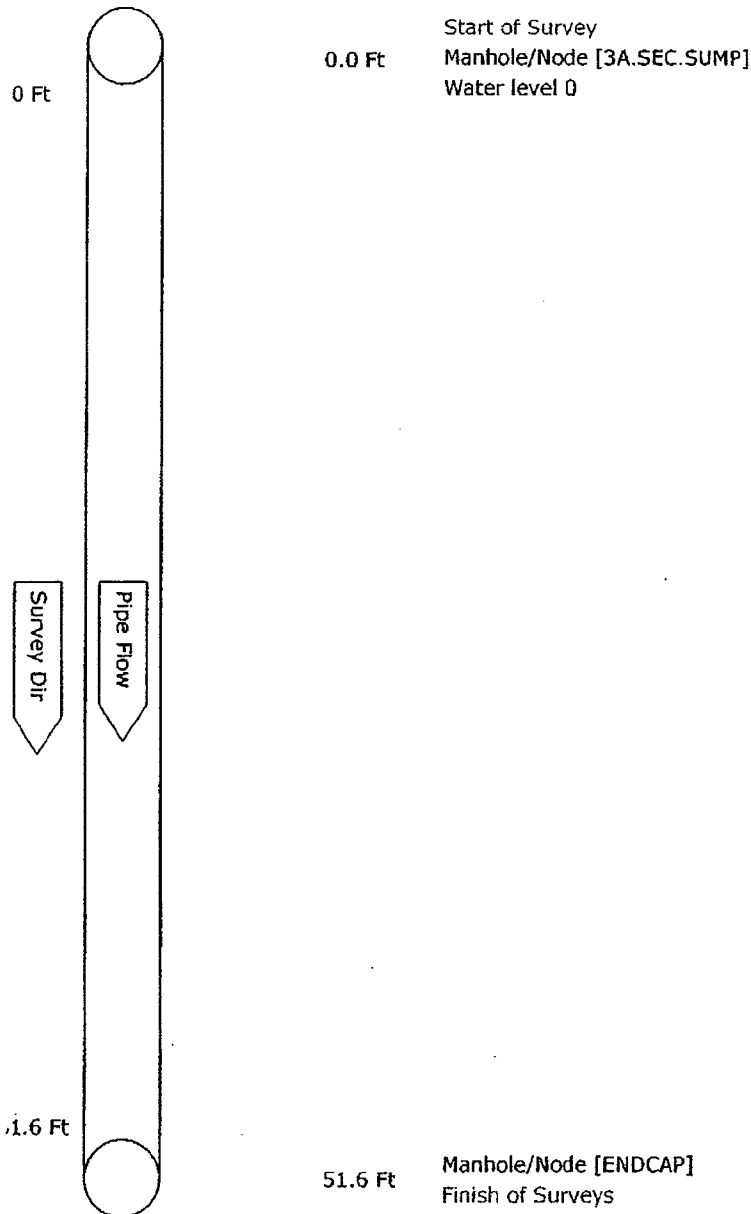
<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 7	<b>Setup</b> 22
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/14/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b> Other (state in comments)	<b>Schedule length</b> 51.0 Ft	<b>From</b> 3A.PRI.SUMP	<b>Depth</b> Ft
<b>Shape</b> Circular	<b>Size</b> 24 <b>by</b> ins	<b>To</b> ENDCAP	<b>Depth</b> Ft
<b>Material</b> Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Downstream	
<b>Lining</b>	<b>Year laid</b>	<b>Pre-clean</b>	<b>Last cleaned</b>
<b>General note</b>	PRIMARY LEACHATE COLLECTION SUMPS	Structural	Service
<b>Location note</b>	PRIMARY AND SEC SUMPS.	Miscellaneous	Hydraulic
		Constructional	



# Pipe Graphic Report of PLR 3A.SEC.SUMP W

for WASTE MANAGEMENT

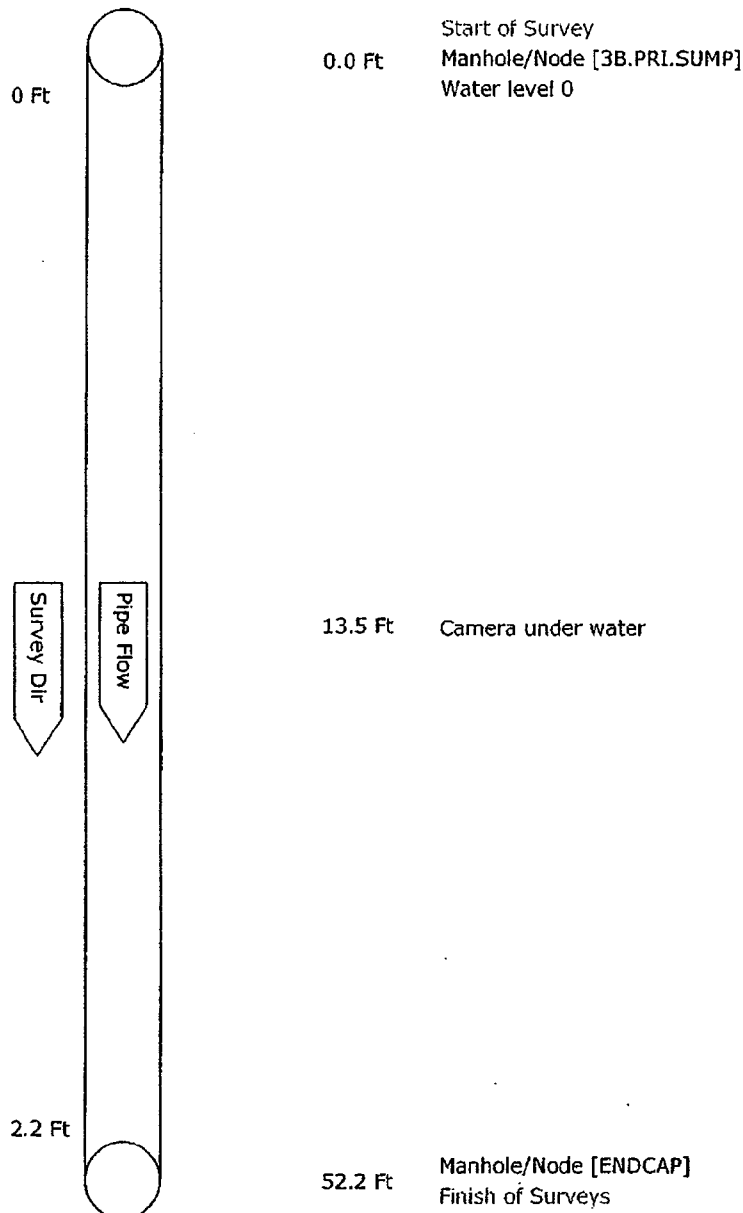
<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 7	<b>Setup</b> 23
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/14/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b>	Other (state in comments)	<b>Schedule length</b>	51.6 Ft
<b>Shape</b>	Circular	<b>Size</b> 24 by ins	
<b>Material</b>	Polyethylene - High density	<b>Joint spacing</b>	Ft
<b>Lining</b>		<b>Year laid</b>	
<b>From</b>	3A.SEC.SUMP	<b>Depth</b>	Ft
<b>To</b>	ENDCAP	<b>Depth</b>	Ft
<b>Direction</b>	Downstream		
<b>Pre-clean</b>		<b>Last cleaned</b>	
<b>General note</b>	PRIMARY LEACHATE COLLECTION SUMPS	<b>Structural</b>	Service Constructional
<b>Location note</b>	PRIMARY AND SEC SUMPS.	<b>Miscellaneous</b>	Hydraulic



# Pipe Graphic Report of PLR 3B.PRI.SUMP W

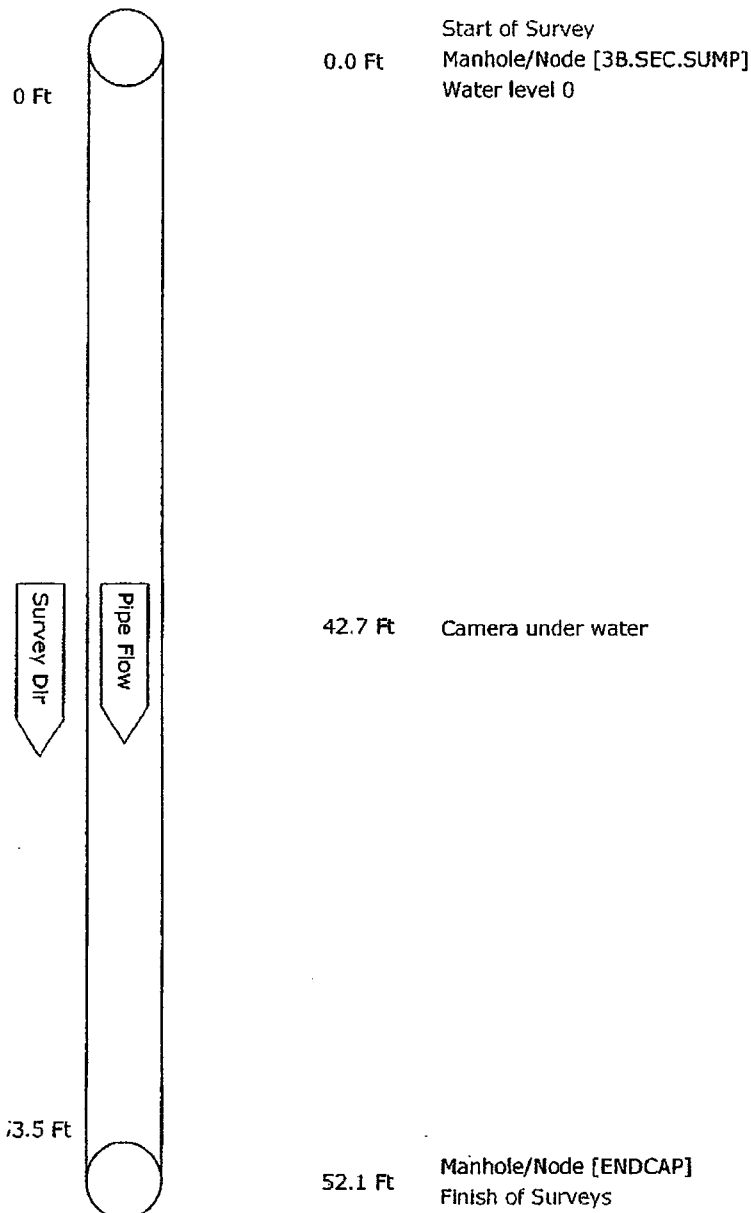
for WASTE MANAGEMENT

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 7	<b>Setup</b> 24
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/14/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b> Other (state in comments)	<b>Schedule length</b> 52.2 Ft	<b>From</b> 3B.PRI.SUMP	<b>Depth</b> Ft
<b>Shape</b> Circular	<b>Size</b> 24 <b>by</b> ins	<b>To</b> ENDCAP	<b>Depth</b> Ft
<b>Material</b> Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Downstream	
<b>Lining</b>	<b>Year laid</b>	<b>Pre-clean</b>	<b>Last cleaned</b>
<b>General note</b>	PRIMARY LEACHATE COLLECTION SUMPS	Structural	Service
<b>Location note</b>	PRIMARY AND SEC SUMPS.	Miscellaneous	Hydraulic
		Constructional	



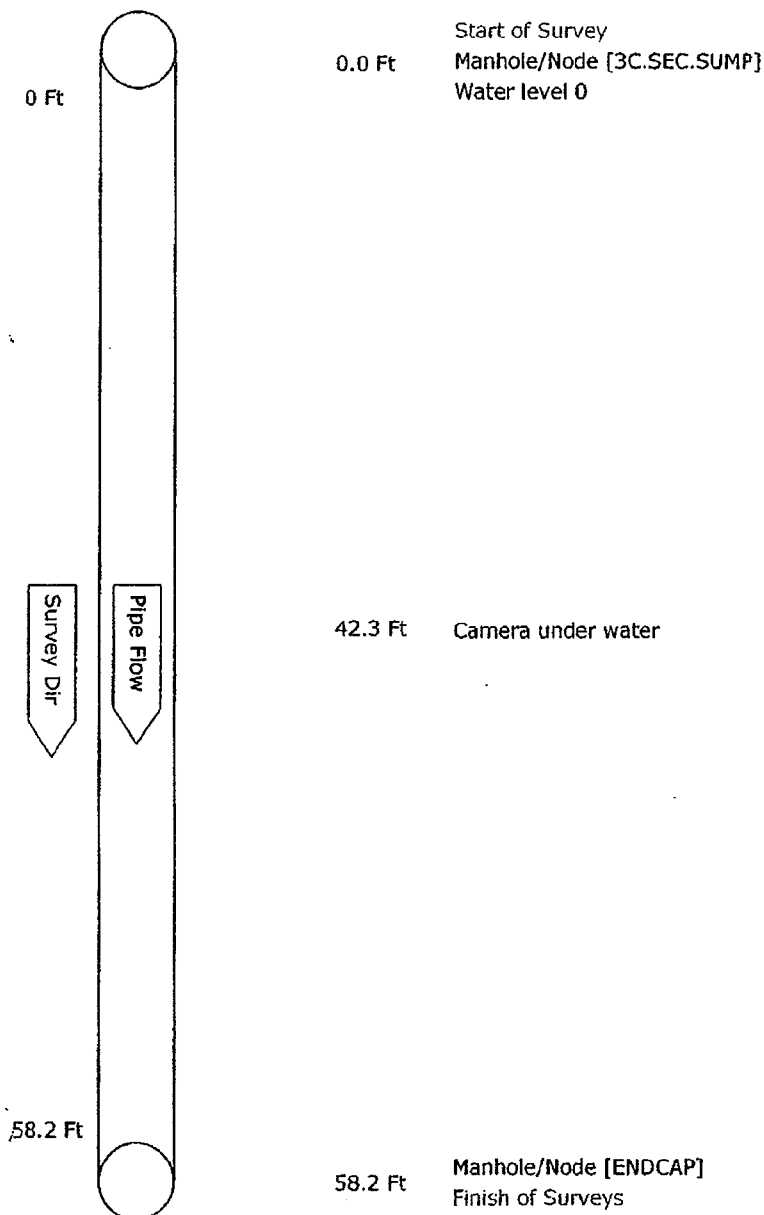
**Pipe Graphic Report of PLR 3B.SEC.SUMP W**
**for WASTE MANAGEMENT**

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 7	<b>Setup</b> 25
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/14/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b> Other (state in comments)	<b>Schedule length</b> 53.5 Ft	<b>From</b> 3B.SEC.SUMP	<b>Depth</b> Ft
<b>Shape</b> Circular	<b>Size</b> 24 <b>by</b> ins	<b>To</b> ENDCAP	<b>Depth</b> Ft
<b>Material</b> Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Downstream	
<b>Lining</b>	<b>Year laid</b>	<b>Pre-clean</b>	<b>Last cleaned</b>
<b>General note</b>	PRIMARY LEACHATE COLLECTION SUMPS	Structural	Service Constructional
<b>Location note</b>	PRIMARY AND SEC SUMPS.	Miscellaneous	Hydraulic



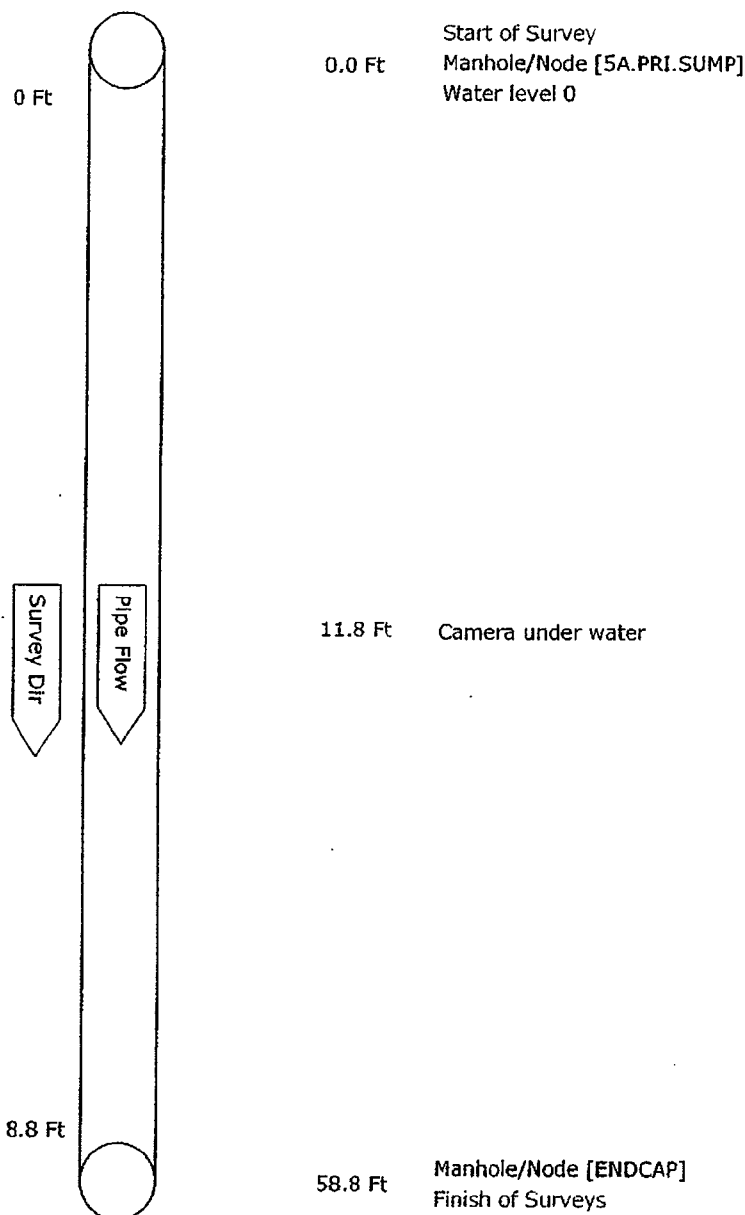
**Pipe Graphic Report of PLR 3C.SEC.SUMP W for WASTE MANAGEMENT**

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 7	<b>Setup</b> 26
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/14/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b>	Other (state in comments)	<b>Schedule length</b> 58.2 Ft	<b>From</b> 3C.SEC.SUMP <b>Depth</b> Ft
<b>Shape</b>	Circular	<b>Size</b> 24 <b>by</b> ins	<b>To</b> ENDCAP <b>Depth</b> Ft
<b>Material</b>	Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Downstream
<b>Lining</b>		<b>Year laid</b>	<b>Pre-clean</b> <b>Last cleaned</b>
<b>General note</b>	PRIMARY LEACHATE COLLECTION SUMPS	Structural	Service Constructional
<b>Location note</b>	PRIMARY AND SEC SUMPS.	Miscellaneous	Hydraulic



**Pipe Graphic Report of PLR 5A.PRI.SUMP W**
**for WASTE MANAGEMENT**

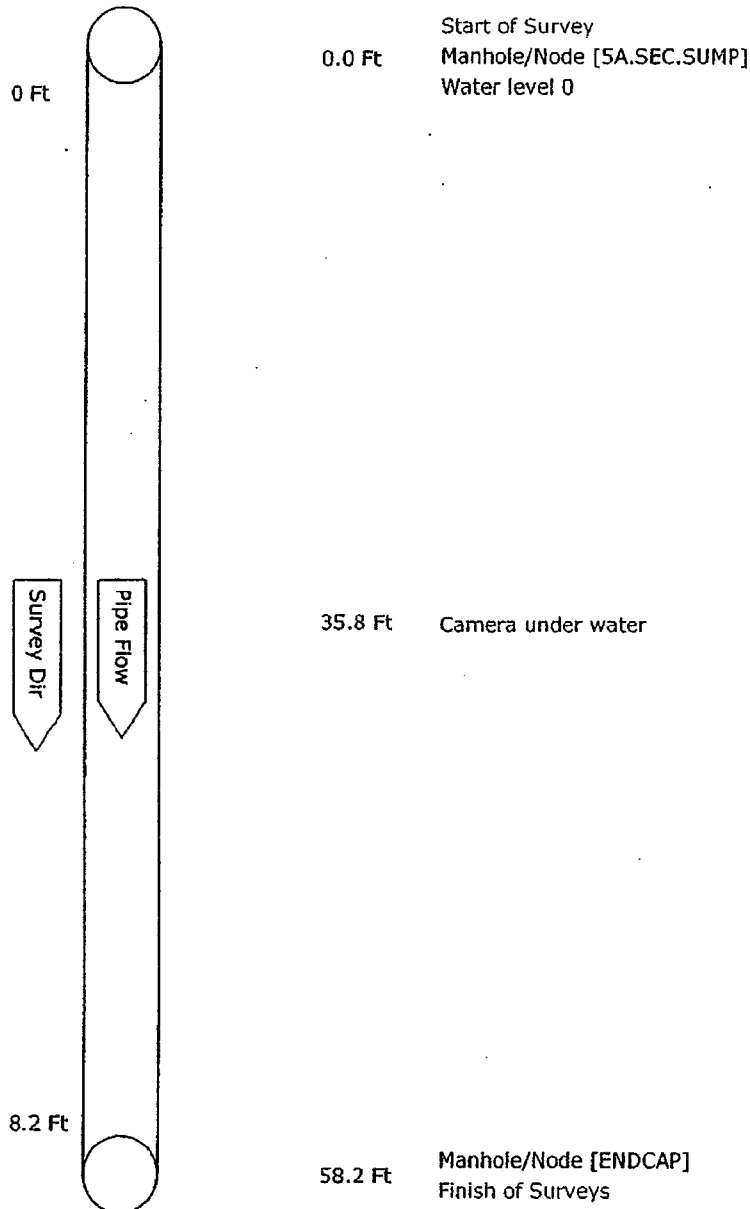
<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 7	<b>Setup</b> 27
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/14/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b> Other (state in comments)	<b>Schedule length</b> 58.8 Ft	<b>From</b> 5A.PRI.SUMP	<b>Depth</b> Ft
<b>Shape</b> Circular	<b>Size</b> 24 <b>by</b> ins	<b>To</b> ENDCAP	<b>Depth</b> Ft
<b>Material</b> Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Downstream	
<b>Lining</b>	<b>Year laid</b>	<b>Pre-clean</b>	<b>Last cleaned</b>
<b>General note</b>	PRIMARY LEACHATE COLLECTION SUMPS	Structural	Service Constructional
<b>Location note</b>	PRIMARY AND SEC SUMPS.	Miscellaneous	Hydraulic





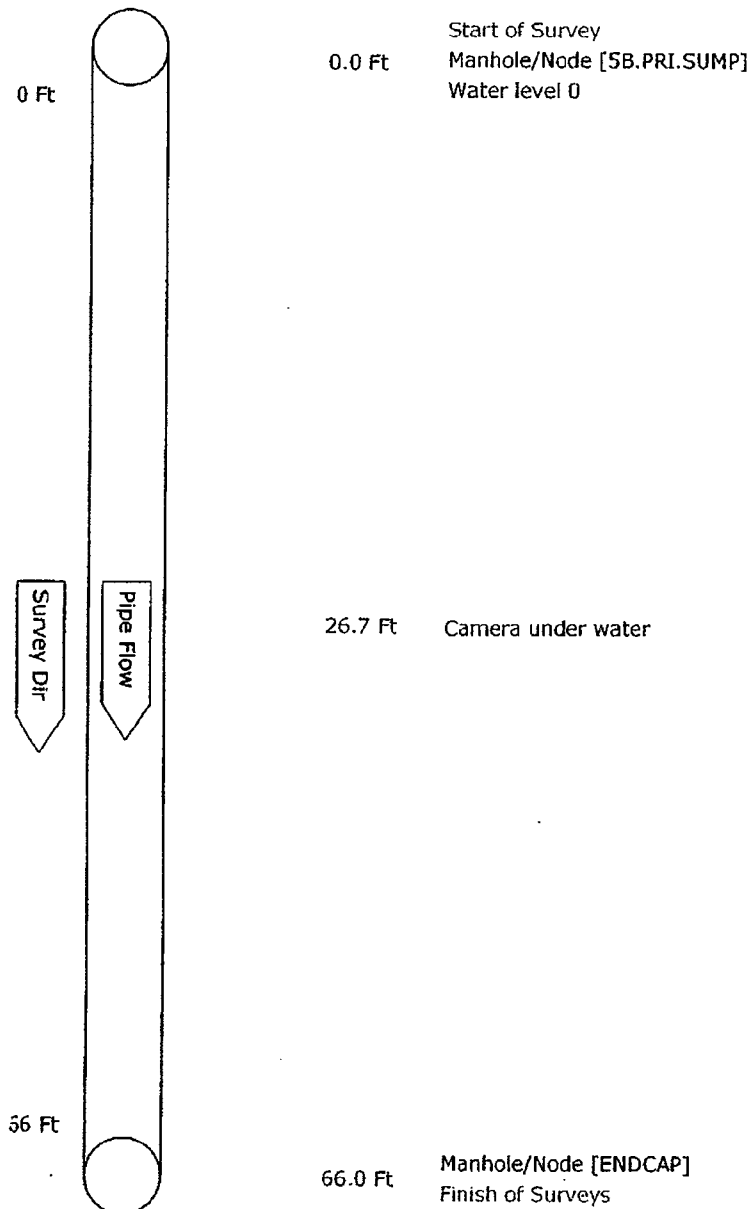
**Pipe Graphic Report of PLR 5A.SEC.SUMP W for WASTE MANAGEMENT**

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 7	<b>Setup</b> 28
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/14/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b>	Other (state in comments)	<b>Schedule length</b>	58.2 Ft
<b>Shape</b>	Circular	<b>Size 24 by</b>	ins
<b>Material</b>	Polyethylene - High density	<b>Joint spacing</b>	Ft
<b>Lining</b>		<b>Year laid</b>	
<b>From</b>	5A.SEC.SUMP	<b>Depth</b>	Ft
<b>To</b>	ENDCAP	<b>Depth</b>	Ft
<b>Direction</b>	Downstream		
<b>Pre-clean</b>		<b>Last cleaned</b>	
<b>General note</b>	PRIMARY LEACHATE COLLECTION SUMPS	<b>Structural</b>	Service
<b>Location note</b>	PRIMARY AND SEC SUMPS.	<b>Miscellaneous</b>	Hydraulic
		<b>Constructional</b>	



**Pipe Graphic Report of PLR 5B.PRI.SUMP W**
**for WASTE MANAGEMENT**

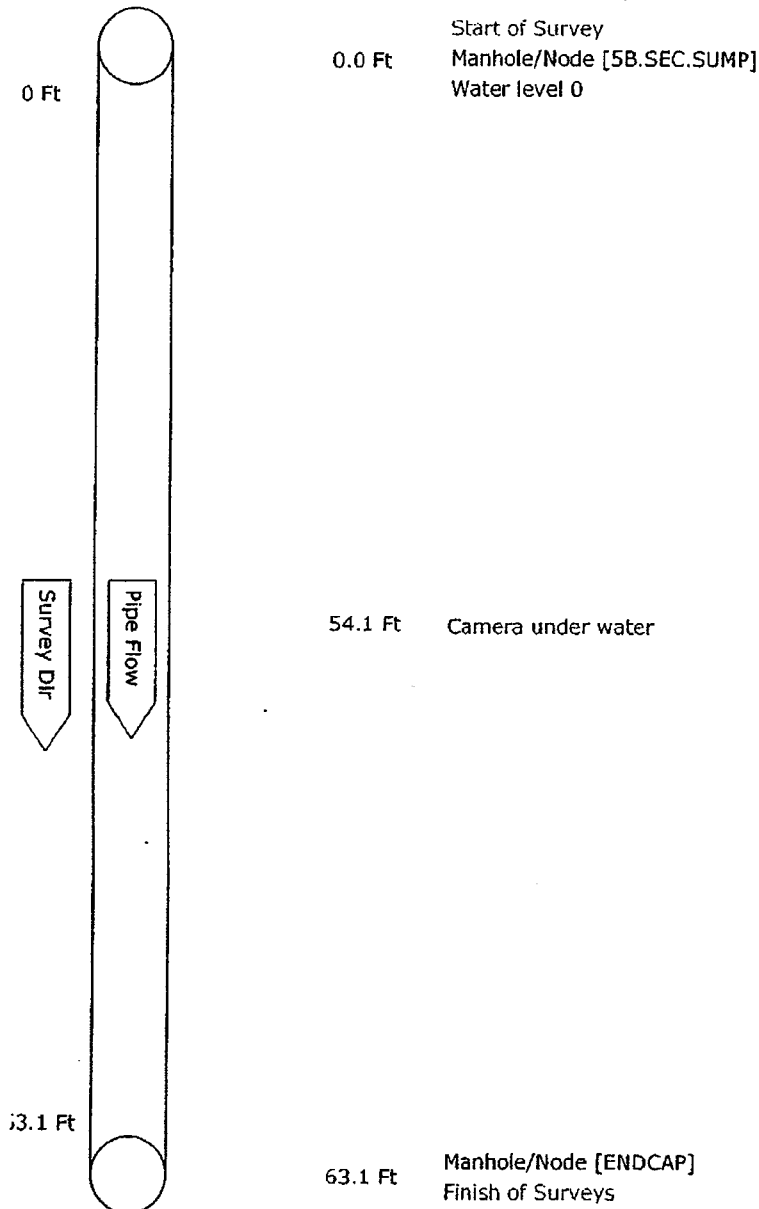
<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 7	<b>Setup</b> 29
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/14/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b>	Other (state in comments)	<b>Schedule length</b>	66.0 Ft
<b>Shape</b>	Circular	<b>Size</b> 24 <b>by</b>	ins
<b>Material</b>	Polyethylene - High density	<b>Joint spacing</b>	Ft
<b>Lining</b>		<b>Year laid</b>	
<b>From</b>	5B.PRI.SUMP	<b>Depth</b>	Ft
<b>To</b>	ENDCAP	<b>Depth</b>	Ft
<b>Direction</b>	Downstream		
<b>Pre-clean</b>		<b>Last cleaned</b>	
<b>General note</b>	PRIMARY LEACHATE COLLECTION SUMPS	<b>Structural</b>	Service Constructional
<b>Location note</b>	PRIMARY AND SEC SUMPS.	<b>Miscellaneous</b>	Hydraulic



# Pipe Graphic Report of PLR 5B.SEC.SUMP W

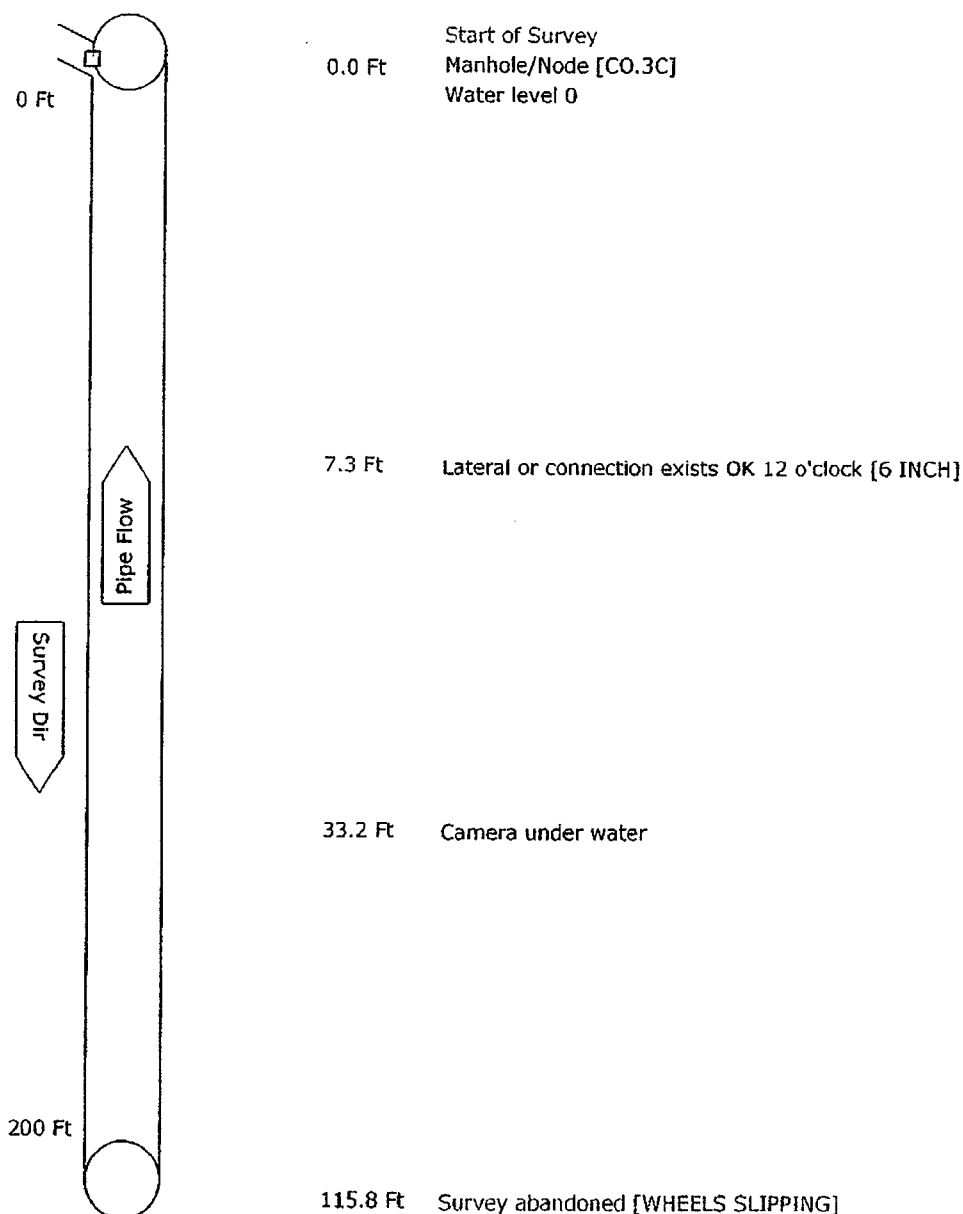
for WASTE MANAGEMENT

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 7	<b>Setup</b> 30
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/14/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b>	Other (state in comments)	<b>Schedule length</b>	63.1 Ft
<b>Shape</b>	Circular	<b>Size</b> 24 <b>by</b>	ins
<b>Material</b>	Polyethylene - High density	<b>Joint spacing</b>	Ft
<b>Lining</b>		<b>Year laid</b>	
<b>From</b>	5B.SEC.SUMP	<b>Depth</b>	Ft
<b>To</b>	ENDCAP	<b>Depth</b>	Ft
<b>Direction</b>	Downstream		
<b>Pre-clean</b>		<b>Last cleaned</b>	
<b>General note</b>	PRIMARY LEACHATE COLLECTION SUMPS	<b>Structural</b>	Service
<b>Location note</b>	PRIMARY AND SEC SUMPS.	<b>Miscellaneous</b>	Constructional
		<b>Hydraulic</b>	



**Pipe Graphic Report of PLR CO4C W for WASTE MANAGEMENT**

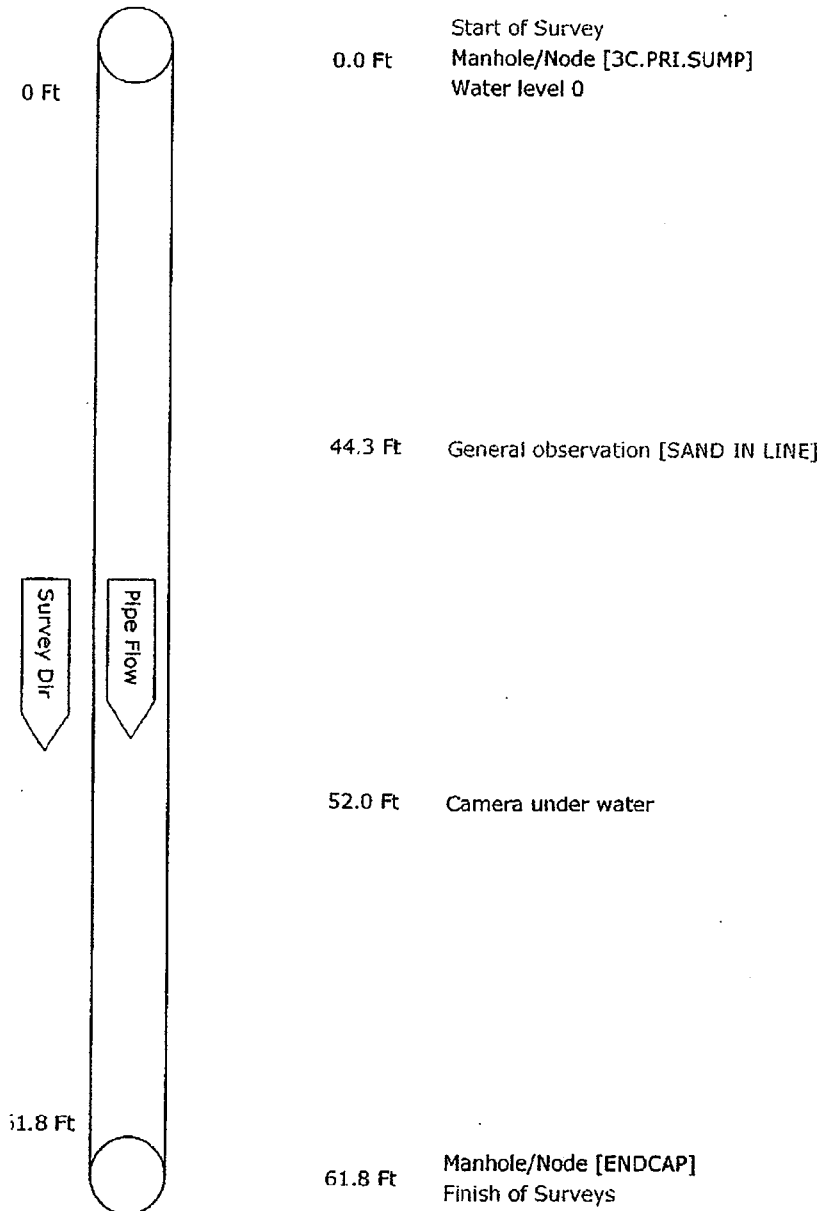
<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 8	<b>Setup</b> 31
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/15/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b>	Other (state in comments)	<b>Schedule length</b>	1200.0 Ft
<b>Shape</b>	Circular	<b>Size</b> 8 <b>by</b> ins	
<b>Material</b>	Polyethylene - High density	<b>Joint spacing</b>	Ft
<b>Lining</b>		<b>Year laid</b>	
<b>From</b>	CO.3C	<b>Depth</b>	Ft
<b>To</b>	CO4C	<b>Depth</b>	Ft
<b>Direction</b>	Upstream		
<b>Pre-clean</b>	Y	<b>Last cleaned</b>	10/15/2008
<b>General note</b>	PRIMARY LEACHATE COLLECTION SYSTEM		
<b>Location note</b>	Structural	Service	Constructional
	Miscellaneous	Hydraulic	



# Pipe Graphic Report of PLR 3C.PRI.SUMP W

for WASTE MANAGEMENT

<b>Work Order</b>	<b>Contract</b>	<b>Video</b> 7	<b>Setup</b> 32
<b>Facility</b>	<b>Operator</b> Supervisor	<b>Van Ref</b> 3	<b>Surveyed On</b> 10/15/2008
<b>Street Name</b>	TRAIL RIDGE LANDFILL	<b>City</b>	TRAIL RIDGE LANDFILL
<b>Location type</b>	Berm		
<b>Surface</b>			
<b>Survey purpose</b>	Random survey of pipes and things	<b>Weather</b>	Dry
<b>Pipe Use</b> Other (state in comments)	<b>Schedule length</b> 61.8 Ft	<b>From</b> 3C.PRI.SUMP	<b>Depth</b> Ft
<b>Shape</b> Circular	<b>Size</b> 24 <b>by</b> ins	<b>To</b> ENDCAP	<b>Depth</b> Ft
<b>Material</b> Polyethylene - High density	<b>Joint spacing</b> Ft	<b>Direction</b> Downstream	
<b>Lining</b>	<b>Year laid</b>	<b>Pre-clean</b> Y	<b>Last cleaned</b> 10/15/2008
<b>General note</b>	PRIMARY LEACHATE COLLECTION SUMPS	<b>Structural</b>	<b>Service</b> <b>Constructional</b>
<b>Location note</b>	SUMP.3C PRIMARY	<b>Miscellaneous</b>	<b>Hydraulic</b>



**ID:****204691**This ID is read by a scanner.  
Do not mark.**DWM Preindex Coversheet**

ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

**Submittal Data**Catalog **Solid Waste**Profile **Permitting\_Authorization**County **DUVAL**Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**Document Date **11-06-2008**Received Date **11-12-2008**Document\_Type **PERMIT APPLICATION RELATED**

Contractor ID

Facility Type **CLASS I LANDFILL (100)**Document Subject **Leachate collection system jetcleaning and video inspection report**☐ Double Sided☐ Oversized Pages

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☐ Data Sheet

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bogin\_m

*ECR*

Date 12/9/08



14775 Old St. Augustine Road ▪ Jacksonville, Florida 32258  
tel 904.642.8990 ▪ fax 904.646.9485 ▪ www.etminc.com

October 22, 2008

Mr. Emerson Raulerson, P. E.  
Solid Waste Section  
Department of Environmental Protection  
Solid Waste Section  
7825 Baymeadows Way, Suite B-200  
Jacksonville, Florida 32256

**Re: Trail Ridge Landfill – Permit Renewal**  
**FDEP Permit No. 0013493-001 and 0013493-002**  
**ETM No.: 07-044**

Dear Mr. Raulerson:

We have revised Sheet 4 of the Permit Renewal Plans to remove the Future Expansion Area. Please substitute the Revised Sheet into the Permit Renewal Set that was sent to the FDEP On October 15, 2008.

Please find the following:

- Four (4) sets of Revised Engineering Plans (Sheet 4) (Revised Date: 10-22-08) (signed and sealed)

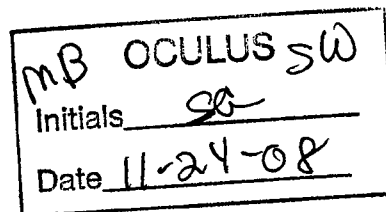
I would respectfully request that questions regarding this application be directed to me. Please feel free to call me at (904) 265-3181 if you have any comments or questions.

Sincerely,

ENGLAND-THIMS & MILLER, INC.

*Juanita Bader Clem*  
Juanita Bader Clem, P.E.  
Vice President

10/22/08



Xc:	Chris Pearson	(City of Jacksonville)	(w/ attachments)
	Greg Mathes	(Trail Ridge Landfill, Inc.)	(w/ attachments)
	Mark Triplett	(Trail Ridge Landfill, Inc.)	(w/ attachments)
	Brian E. Dolihite	(Trail Ridge Landfill, Inc.)	(w/ attachments)
	Scott Lockwood, P.E.	(ETM)	(cover letter only)

ENGINEERS ▪ PLANNERS ▪ SURVEYORS ▪ GIS ▪ LANDSCAPE ARCHITECTS

JACKSONVILLE ▪ PANAMA CITY

CA-00002584 LC-0000316

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#### PRINCIPALS

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

#### EMERITUS

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

RECEIVED

OCT 22 2008

NORTHEAST DISTRICT  
DEP-JACKSONVILLE

DEP002979

**ID:****193414**This ID is read by a scanner.  
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ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

**Submittal Data**Catalog **Solid Waste**Profile **Permitting\_Authorization**County **DUVAL**Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**Document Date **10-22-2008**Received Date **10-22-2008**Document\_Type **PERMIT APPLICATION RELATED**

Contractor ID

Facility Type **CLASS I LANDFILL (100)**Document Subject **Revised Sheet 4 of the Permit Renewal Plans**☐ Double Sided☐ Oversized Pages

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☐ Data Sheet

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

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

Comments


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

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

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

bogin\_m



Date 11/17/08

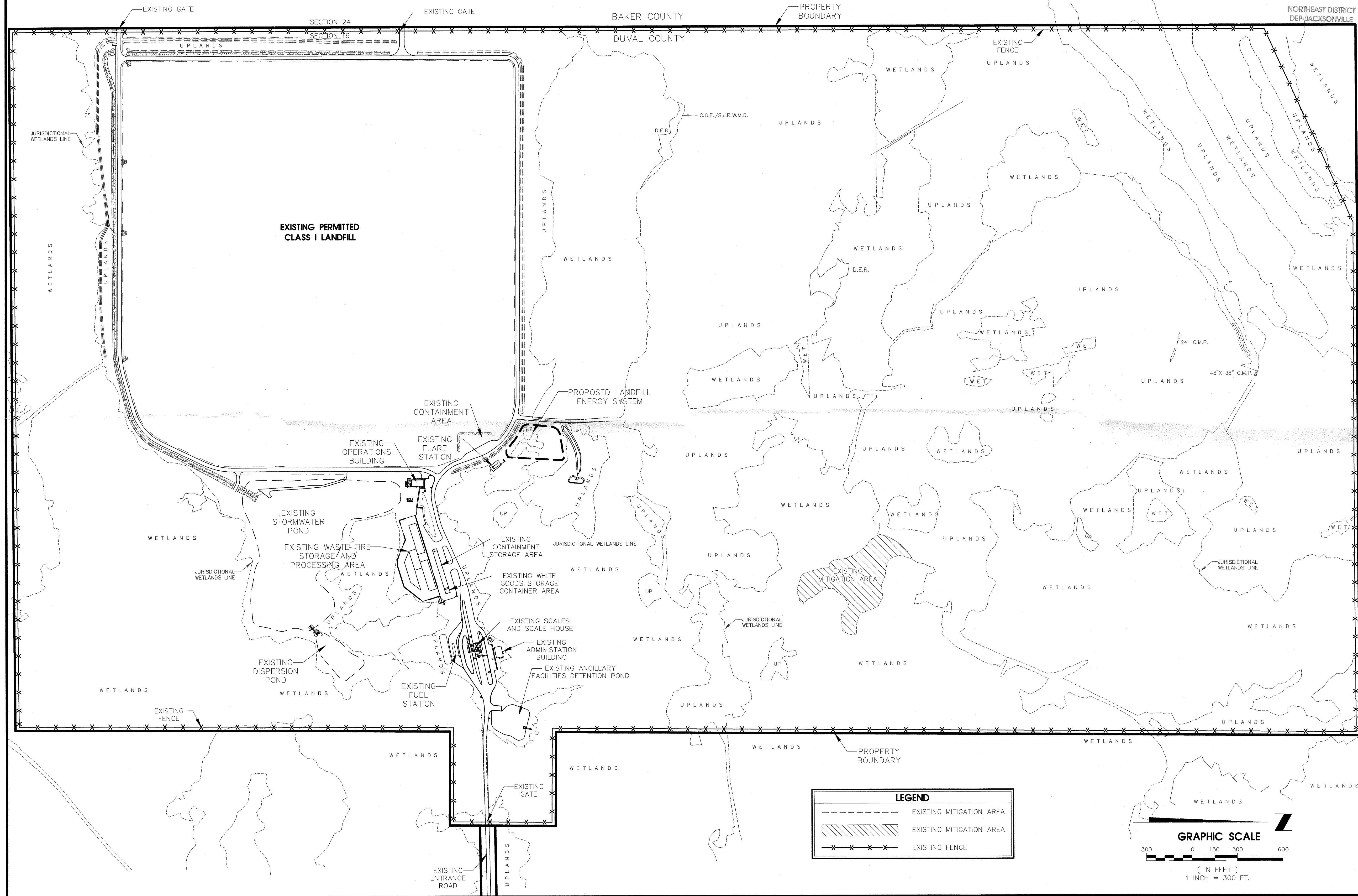


11/17/08

RECEIVED

OCT 22 2008

NORTHEAST DISTRICT  
DEP-JACKSONVILLE



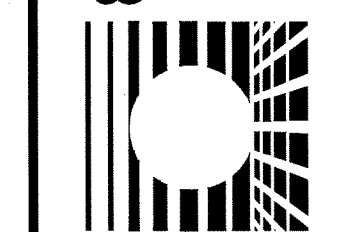
PLANS PREPARED UNDER THE  
DIRECTION OF:  
*[Signature]*  
JUANITA BADER, CLEM, P.E.  
P.E. NO. 43245

REVISIONS  
REVISED TO SHOW EXISTING  
8-16-02 FLARE STATION  
2-14-03 ADDED CONTAINMENT STORAGE AND  
PROCESSING AREA  
1-26-04 ADDED PROPOSED FUEL STATION  
9-15-08 REVISED FUTURE EXPANSION AREA  
10-22-08 REMOVED FUTURE EXPANSION AREA

ETM NO. E 07-04-01  
DRAWN BY: S. Lockwood  
DESIGNED BY: J. Clem  
CHECKED BY: J. Clem  
DATE: September 25, 2002

**SITE PLAN**  
**TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL**  
**FOR**  
**TRAIL RIDGE LANDFILL, INC.**

**England, Thims & Miller, Inc.**  
ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS  
14775 OLD ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32256  
CERTIFICATE OF AUTHORIZATION NUMBER 2684  
PHONE NUMBER (904) 642-8980 FAX NUMBER (904) 646-9485



DRAWING NO.  
**4**

© LANDFILL TRAIL RIDGE, INC. 07-04A Design/Print Site Plan

Inspected  
OCULUS  
Initials *SO*  
Date *11-24-08*

## Bogin, Michael

---

**From:** Crandall, Lea  
**Sent:** Wednesday, September 02, 2009 3:24 PM  
**To:** Bogin, Michael  
**Subject:** RE: Petition

Hi,

No petitions have been filed for either permit number.

Thanks,  
Lea

Lea Crandall  
Agency Clerk  
Office of General Counsel  
3900 Commonwealth Blvd., MS 35  
Tallahassee, FL 32399-3000  
Phone (850) 245-2212  
Fax: (850) 245-2303

Florida's Water - Ours to Protect: Check out the latest information on Florida Water Issues at  
<http://www.protectingourwater.org/> presented by the Florida Department of Environmental Protection.

---

**From:** Bogin, Michael  
**Sent:** Wednesday, September 02, 2009 3:22 PM  
**To:** Crandall, Lea  
**Cc:** Chapman, Heather  
**Subject:** Petition

Lea,  
Have you received any petitions regarding the Trail Ridge Class I Landfill in Duval County. The Departments File Numbers are 0013493-017 & 0126289-002.  
Thank you.

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

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature  <input checked="" type="checkbox"/> <u>Katherine Nemec</u> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p>		<p>B. Received by (Printed Name) <u>Katherine Nemec</u> C. Date of Delivery <u>8-7-09</u></p>	
<p>2. Article Addressed to:</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No          If YES, enter delivery address below:</p>	
<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail</p> <p><input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
<p>7008 1300 0000 6191 6116</p> <p>PS Form 3811, February 2004 Domestic Return Receipt</p>		<p><u>MB/SW</u> <u>8/5/09</u></p> <p>102595-02-M-1540</p>	

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
OFFICIAL USE	
Postage \$	<p>8/5/09</p> <p>Postmark Here <u>MB SW</u></p>
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees \$	
<p>Sent To <u>TRAIL RIDGE LF</u></p> <p>Street, Apt. No., or PO Box No.</p> <p>City, State, ZIP+4 <u>Intent</u></p>	
<p>PS Form 3800, August 2006 See Reverse for Instructions</p>	



# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

August 5, 2009

## CERTIFIED - RETURN RECEIPT

In the Matter of an  
Application for Permit by:

DEP File Numbers 0013493-017 & 0126289-002  
Duval County

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

---

## INTENT TO ISSUE

The Florida Department of Environmental Protection (Department) gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application specified above, for the reasons stated below.

The applicant, Trail Ridge Landfill, Inc., applied on October 15, 2008, to the Department to renew the Class I Landfill and the Waste Tire Processing Facility Operations Permit. The main entrance to the Trail Ridge Landfill is located at 5110 U.S. Highway 301, in western Duval County, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes (F.S.) and Florida Administrative Code Chapters 62-4, 62-520, 62-550, and 62-701. The project is not exempt from permitting procedures. The Department has determined that a permit is required for the proposed work.

This Intent to Issue is in accordance with the Operation Permit Renewal Application received October 15, 2008, and supplemental information received October 22 and November 12, 2008, and January 20, May 7, May 26, and July 21, 2009, and includes Department File Numbers 0013493-017 & 0126289-002.



# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

February 18, 2009

Mr. Greg Mathes  
Director of Landfill Operations  
Trail Ridge Landfill, Inc.  
5110 U.S. Highway 301  
Baldwin, Florida 32234

**Re: Trail Ridge Landfill, Inc.**  
**Approval of the connection of the landfill's existing gas and leachate collection**  
**systems to a Landfill Gas-to-Energy Facility**  
**Modification No. 0013493-016 to Permit No. 0013493-010-SC**  
**WACS I.D. Number: NED/16/00033628**  
**Duval County - Solid Waste Permitting**


Dear Mr. Mathes:

The Florida Department of Environmental Protection (DEP) has reviewed the Construction Certification document for the Landfill Gas-to-Energy Facility, dated December 22, 2008, and received December 29, 2008. The following memorandum is enclosed:

Attachment 1: Memorandum dated, February 18, 2009, prepared by Michael Bogin.

If you have any comments concerning this matter, please contact Michael Bogin at the letterhead address, at email [Michael.Bogin@dep.state.fl.us](mailto:Michael.Bogin@dep.state.fl.us) or telephone number 904.807.3355.

Sincerely,

  
Emerson C. Raulerson, P.E.  
Solid Waste Section Supervisor

ECR:MB:db  
Enclosures

cc: Omar E. Smith, P.E., S2L, Inc.  
Jim Getting, P.E., Waste Management

F	OCULUS SW
Initials	SG
Date	3-16-09

# Florida Department of

## Memorandum

## Environmental Protection

---

**TO:** Files

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

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

**DATE:** February 18, 2009

**SUBJECT:** Trail Ridge Landfill, Inc.  
Approval of the Connection of the Landfill's Existing Gas and  
Leachate Collection Systems to a Landfill Gas-to-Energy Facility  
Modification No. 0013493-016 to Permit No. 0013493-010-SC  
WACS I.D. Number: NED/16/00033628  
Duval County – Solid Waste Permitting

DEP has reviewed the following documents submitted pursuant to Florida Administrative Code (FAC) Chapter 62-701, and Specific Condition 14.e of the subject permit:

**Document 1** – Construction Certification form and updated drawing for Trail Ridge Landfill, Inc. – Landfill Gas-to-Energy Facility, prepared by S2L, Inc., signed and sealed by Omar E. Smith, P.E., dated December 22, 2008, received December 29, 2008.

In addition to DEP's review of the aforementioned documents, DEP staff conducted an inspection of the Landfill Gas-to-Energy Facility on January 30, 2009. Based on DEP's review of the listed documents and the said inspection, DEP finds that the connection of Trail Ridge Landfill's gas and leachate collection systems to a Landfill Gas-to-Energy Facility within the Landfill's property boundaries to be prepared in substantial accordance with the subject permit. Therefore, assuming the necessary approvals are granted by all other Sections and/or regulatory entities (e.g., by the AIR Program and, for the stormwater system, by the ERP Section), the Permittee may commence operation activities in accordance with the approved permit modification.

MB:db



Florida Department of  
Environmental Protection  
Inspection Checklist

---

**FACILITY INFORMATION:**

**Facility Name:** TRAIL RIDGE LANDFILL LF1

**On-Site Inspection Start Date:** 01/30/2009

**On-Site Inspection End Date:** 01/30/2009

**WACS No.:** 33628

**Facility Street Address:** 5110 US HWY 301

**City:** BALDWIN

**County Name:** DUVAL

**Zip:** 32234

**INSPECTION PARTICIPANTS:**

(Include ALL Landfill and Department Personnel with Corresponding Titles)

**Principal Inspector:** Michael B. Bogin, Inspector

**Other Participants:** Dinah Frazier, Inspector; James Getting, Gas Operations Manager; Jimmy Purvis, Site Manager

**INSPECTION TYPE:**

Construction Completion Certification Inspection for Other Facilities - Waste To Energy Facility

**ATTACHMENTS TO THE INSPECTION CHECK LIST:**

This Cover Page to the Inspection Checklist may include any or all of the following attachments as appropriate.

SECTION 1.0 - FILE REVIEW

SECTION 12.0 - WTE FACILITIES

Inspection Date: 01/30/2009

**SECTION 1.0 - FILE REVIEW****Requirements:**

The requirements listed in this section provide an opportunity for the Department's inspector to indicate the conditions found at the time of the inspection. A "Not Ok" response to a requirement indicates either a potential violation of the corresponding rule or an area of concern that requires more attention. Both potential violations and areas of concern are discussed further at the end of this inspection report.

Item No.	FILE REVIEW (Pre- or Post-Inspection, as appropriate.) Completed	Ok	Not Ok	Unk	N/A
1.1	For landfills, is the method and sequence of filling wastes according to plans? 62-701.500(2)(f)			✓	
1.2	For landfills, are the following records being reported to the Department?(Check any that are Not OK.) <input type="checkbox"/> Waste reports (quarterly) 62-701.500(4) <input type="checkbox"/> Annual estimate of remaining life 62-701.500(13)(c)			✓	
1.3	Is leachate sampled, tested and disposed as required? 62-701.500(8)(a) & 62-701.510(6)(c)	✓			
1.4	Is gas monitoring being performed as required by the permit? 62-701.500(9) & 62-701.530(2)	✓			
1.5	Are the results of the gas sampling reported to the Department quarterly? 62-701.530(2)	✓			
1.6	Is water quality sampling and testing performed according to standard procedures and at the required frequencies? See 62-701.510(2) for landfills; 62-701.730(4)(b) & (10) for C&D debris sites; 62-713.400(3) for stationary soil treatment facilities.	✓			
1.7	Do the results of the water quality testing suggest there may be adverse impacts to water quality from the operation of the solid waste facility? 62-701.510(3) & (4)	✓			
1.8	For closed landfills and C&D disposal facilities with final elevations higher than 20 feet above grade, has a final survey report verifying the final elevations and contours of the facility been submitted to the Department? 62-701.610(3) & 62-701.730(9)(c)				✓
1.9	Is financial assurance adequate? See 62-701.630 for landfills; 62-710(7)(a) & (10)(a) for WPFs; 62-701.730(11)(a) for C&D debris facilities; 62-713.600(6)(a) for stationary soil treatment facilities; 62-711.500(3) for waste tire facilities. NOTE: The Solid Waste Financial Coordinator in Tallahassee can assist with this information.	✓			
1.10	Are cost estimates current and adjusted every year? See 62-701.630(4) for landfills; 62-701.710(7)(b) & (10)(a) for WPFs; 62-701.730(11)(b) for C&D debris facilities; 62-713.600(6)(b) & (c) for stationary soil treatment facilities; 62-711.500(3) for waste tire facilities.	✓			
1.11	For C&D debris disposal and disposal with recycling facilities, is an Annual Report submitted to the Department for the disposal operation by April 1st of each year? 62-701.730(12)				✓
1.12	For C&D recycling facilities with no disposal, is an Annual Report for the recycling operation submitted to the Department by April 1st of each year? 62-701.710(9)(b)				✓
1.13	For compost facilities, has the compost product been sampled and analyzed every 20,000 tons or every 3 months (whichever is sooner)? 62-709.530(1)				✓
1.14	For compost facilities, has the annual report been submitted by June 1st? 62-709.530(3)				✓



Inspection Date: 01/30/2009

**SECTION 12.0 - WTE FACILITIES****Requirements:**

The requirements listed in this section provide an opportunity for the Department's inspector to indicate the conditions found at the time of the inspection. A "Not Ok" response to a requirement indicates either a potential violation of the corresponding rule or an area of concern that requires more attention. Both potential violations and areas of concern are discussed further at the end of this inspection report.

Item No.	SOLID WASTE PROHIBITIONS (unless "grandfathered" in, see 62-701.300(16)) Completed	Ok	Not Ok	Unk	N/A
12.1	Unauthorized disposal/storage prohibited, except yard trash, within 500' of a potable water well? 62-701.300(2)(b)	✓			
12.2	Unauthorized disposal/storage prohibited, except yard trash, within 1000' of a potable water well serving a community water system? 62-701.300(2)(h)	✓			
12.3	Unauthorized storage/disposal of yard trash prohibited within the minimum setbacks of (Check any that are Not OK) 62-701.300(12) & 62-709.320(3)(a), (b) & (c) <input type="checkbox"/> 100 feet for potable water wells (except on-site)? <input type="checkbox"/> 50 feet for water bodies? <input type="checkbox"/> 200 feet for community water supply wells?	✓			
12.4	Unauthorized disposal/storage prohibited in an area subject to frequent and periodic flooding unless flood protection measures in place? 62-701.300(2)(d)	✓			
12.5	Unauthorized disposal/storage prohibited in any natural or artificial body of water including ground water? 62-701.300(2)(e)	✓			
12.6	Unauthorized disposal/storage prohibited, except yard trash, within 200' of any natural or artificial body of water, including wetlands without permanent leachate controls, except impoundments or conveyances which are part of an on-site, permitted stormwater management system or on-site water bodies with no off-site discharge? 62-701.300(2)(f)	✓			
12.7	Unauthorized open burning of solid waste prohibited except in accordance with Department requirements? 62-701.300(3)	✓			
12.8	Are the following prohibited wastes or special wastes properly managed? (Check any that are Not OK) <input type="checkbox"/> Hazardous waste 62-701.300(4) <input type="checkbox"/> Biomedical waste 62-701.300(6) <input type="checkbox"/> Yard trash 62-701.300(8)(c) <input type="checkbox"/> Whole waste tires 62-701.300(8)(e) <input type="checkbox"/> Used oil, except as exempted 62-701.300(11) <input type="checkbox"/> Lead-acid batteries, mercury-containing switches and lamps in WTEs 62- <input type="checkbox"/> PCB wastes 62-701.300(5) <input type="checkbox"/> Lead-acid batteries 62-701.300(8)(a) <input type="checkbox"/> White goods 62-701.300(8)(d) <input type="checkbox"/> Liquids 62-701.300(10)	✓			

Item No.	WTE FACILITY OPERATION AND MAINTENANCE Completed	Ok	Not Ok	Unk	N/A
12.9	WTE facility in compliance with all permit conditions and applicable requirements? 62-701.320(1)	✓			

**COMMENTS:**

02/02/2009

Items 1.1 & 1.2 are listed as "Unknown", because this was a certification inspection for the gas-to-energy facility and therefore we did not look into these Items.

Inspection Date: 01/30/2009

Inspection Date: 01/30/2009

**Signed:**Michael B. Bogin**PRINCIPAL INSPECTOR NAME**Inspector**PRINCIPAL INSPECTOR TITLE**NO SIGNATURE**PRINCIPAL INSPECTOR SIGNATURE**FDEP**ORGANIZATION**Dinah Frazier**INSPECTOR NAME**Inspector**INSPECTOR TITLE**NO SIGNATURE**INSPECTOR SIGNATURE**FDEP**ORGANIZATION**James Getting**REPRESENTATIVE NAME**Gas Operations Manager**REPRESENTATIVE TITLE**NO SIGNATURE**REPRESENTATIVE SIGNATURE**Waste Management**ORGANIZATION**Jimmy Purvis**REPRESENTATIVE NAME**Site Manager**REPRESENTATIVE TITLE**NO SIGNATURE**REPRESENTATIVE SIGNATURE**Trail Ridge Landfill**ORGANIZATION**

NOTE: By signing this document, the Site Representative only acknowledges receipt of this Inspection Report and is not admitting to the accuracy of any of the items identified by the Department as "Not Ok" or areas of concern.

**ID:****245105**This ID is read by a scanner.  
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ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

**Submittal Data**Catalog **Solid Waste**Profile **Permitting\_Authorization**County **DUVAL**Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**Document Date **02-18-2009**Received Date **02-18-2009**Document\_Type **PERMIT APPLICATION RELATED**

Contractor ID

Facility Type **CLASS I LANDFILL (100)**Document Subject **Approval of the connection of the landfill to Gas-to-Energy Facility**☐ Double Sided☐ Oversized Pages

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

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

bogin\_m

Date 3/12/09



245201

# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

February 11, 2009

Mr. Scott Salisbury, President  
Trail Ridge Energy, LLC  
2961 Wall Street  
Wixom, Michigan 48393

**Re: Duval County - Environmental Resource Permitting  
Trail Ridge Landfill Gas-Energy Plant  
Permit No.: 16-179996-001-SI  
Acceptance of Certification of Completion of Construction**

Dear Mr. Salisbury:

The Department has received the As-Built Certification for the above referenced Environmental Resource Permit.

A compliance inspection was conducted on the Storm Water Management System by Department personnel on February 10, 2009 to verify the compliance of the Storm water System with issued Environmental Resource Permit. After reviewing the conditions of the issued permit, the Certification of Completion of Construction, as-built plan and after inspecting the facility, the Department finds that the constructed subject Storm water System is in compliance with the permit issued pursuant to Part IV of Chapter 373 Florida Statutes (F.S.).

The permit will now move into the operational phase with LANDfill ENERGY SYSTEMS as the responsible entity for the operation and maintenance of the storm water system.

If you have any questions or comments, please do not hesitate to contact me at (904) 807- 3318.

Sincerely,

Reza Shayan, E.I.  
Storm water Compliance Engineer

Rs:tk:ab:rs

Cc: James M. Lucas, P.E., J. Lucas and Associates  
William Brown, LANDfill ENERGY SYSTEMS  
Andrea Agudelo, P.E., FDEP-NED  
Emerson Raulerson, P.E., FDEP-NED

F	OCULUS SW
Initials	<u>RS</u>
Date	<u>3-16-09</u>

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ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

**Submittal Data**Catalog **Solid Waste**Profile **Permitting\_Authorization**County **DUVAL**Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**Document Date **02-11-2009**Received Date **02-11-2009**Document\_Type **PERMIT APPLICATION RELATED**

Contractor ID

Facility Type **CLASS I LANDFILL (100)**Document Subject **Acceptance of certification of stormwater construction  
completion for Gas-to-Energy Facility**☐ Double Sided☐ Oversized Pages

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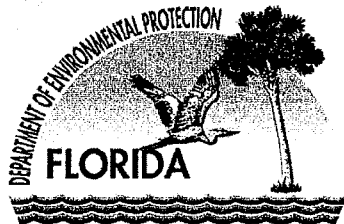
Indexed By \_\_\_\_\_

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

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

bogin\_m

Date 3/13/09



# Florida Department of Environmental Protection

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590  
Phone: 904/807-3300 ♦ Fax: 904/448-4366

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

February 4, 2009

Mr. Chris Pearson, Chief  
City of Jacksonville  
Solid Waste Division  
1031 Superior Street  
Jacksonville, FL 32254

**Duval County - Air Permitting**  
**City of Jacksonville-Trail Ridge Landfill**  
**AIRS ID No. 0310358**  
**Landfill Gas Collection and Control System proposed expansion**

Dear Mr. Pearson:

On January 22, 2009, the Department met with you and your representatives to discuss the outstanding issues relating to landfill gas management and air permitting at the Trail Ridge Landfill.

During the meeting, the landfill's plans to expand the landfill gas collection and control system and the optimization of the system operations were presented. It was stated at this time that based on the presentation, it appeared that the landfill would need to apply for and obtain both an air construction permit and a solid waste permit prior to commencing any construction on the system expansion. However, upon further review, the Solid Waste Section has determined that the existing solid waste permit contains the flexibility and references the requirements necessary to allow for an expansion of the gas collection and control system. A solid waste permit modification is therefore not required.

If you have any questions concerning this matter, please contact Rita Felton-Smith at (904) 807-3237.

Sincerely,

Christopher L. Kirts, P.E.  
District Air Program Administrator

RFS/rfs

Copy to:

Lindsey E. Kennelly, P.E., Senior Project Engineer, SCS Engineers  
Mark Triplett, P.E., BCEE, Waste Management  
James Getting, Waste Management  
Michael Bogin, Solid Waste Section

F	OCULUS SW
Initials	SG
Date	3-10-09

*"More Protection, Less Process"*  
[www.dep.state.fl.us](http://www.dep.state.fl.us)

DEP002995

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ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

**Submittal Data**Catalog **Solid Waste**Profile **Permitting\_Authorization**County **DUVAL**Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**Document Date **02-04-2009**Received Date **02-04-2009**Document\_Type **MEETING RELATED**

Contractor ID

Facility Type **CLASS I LANDFILL (100)**Document Subject **Clarification related to gas collection and control system  
proposed expansion and solid waste permit**☐ Double Sided☐ Oversized Pages

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

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

bogin\_m

Date 2/5/09



Florida Department of Environmental Protection  
Bureau of Petroleum Storage Systems

**Tank System Construction Attribute History by Facility ID**

Data Create-Date: 1/29/2009

Report Run-Date: 1/29/2009

Facility 9811032

TRAIL RIDGE ENERGY LLC - BLDG #300

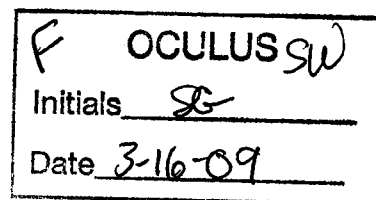
5110 US HWY 301 S

BALDWIN, FL 32234

Alias	A/U	Gallons	Substance Description	Install Date	Status	Status Desc	Status Date
LO	A	4500	New/Lube Oil	09/01/2008	U	In Service	09/01/2008
		Construction	Description	Begin Date	End Date	Update By	Updated On
		C	Steel	01/29/2009		MCGILL_A	01/29/2009
		K	AST containment	01/29/2009		MCGILL_A	01/29/2009
		P	Level gauges/alarms	01/29/2009		MCGILL_A	01/29/2009
		Piping	Description	Begin Date	End Date	Update By	Updated On
		B	Steel/galvanized metal	01/29/2009		MCGILL_A	01/29/2009
		D	External protective coating	01/29/2009		MCGILL_A	01/29/2009
		M	Double wall - pipe jacket	01/29/2009		MCGILL_A	01/29/2009
		Monitoring	Description	Begin Date	End Date	Update By	Updated On
		D	SPCC Plan	01/29/2009		MCGILL_A	01/29/2009
		U	Annual piping pressure test	01/29/2009		MCGILL_A	01/29/2009

Alias	A/U	Gallons	Substance Description	Install Date	Status	Status Desc	Status Date
WO	A	2000	Waste Oil	09/01/2008	U	In Service	09/01/2008
		Construction	Description	Begin Date	End Date	Update By	Updated On
		C	Steel	01/29/2009		MCGILL_A	01/29/2009
		K	AST containment	01/29/2009		MCGILL_A	01/29/2009
		P	Level gauges/alarms	01/29/2009		MCGILL_A	01/29/2009
		Piping	Description	Begin Date	End Date	Update By	Updated On
		B	Steel/galvanized metal	01/29/2009		MCGILL_A	01/29/2009
		D	External protective coating	01/29/2009		MCGILL_A	01/29/2009
		M	Double wall - pipe jacket	01/29/2009		MCGILL_A	01/29/2009
		Monitoring	Description	Begin Date	End Date	Update By	Updated On
		D	SPCC Plan	01/29/2009		MCGILL_A	01/29/2009
		U	Annual piping pressure test	01/29/2009		MCGILL_A	01/29/2009

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## Bogin, Michael

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**From:** Omar Smith [osmith@s2li.com]  
**Sent:** Monday, October 13, 2008 11:24 AM  
**To:** Bogin, Michael  
**Cc:** Scott Gauthier - LES; James Getting; Sam Levin; Louise Mitchell  
**Subject:** RE: FDEP Questions Related to Trail Ridge Energy LLC Solid Waste Minor Permit Application.

Michael:

Here are the answers to your questions below:

- 1) Trail Ridge Landfill has 6-20,000 gallon tanks, 120,000 total for leachate storage. Depending on the amount of rainfall, they haul out 3 to 6 tanker loads per day, 4 being the average. At 6,000 gallons per tanker, Waste Management hauls out on average 24,000 gallons per day. The condensate will add 300 gallons per day or increases their average quantity hauled out per day by 1.25% ( $300/24000 * 100\%$ ). With the capability to increase the number of trips per day, adding the 300 gallons of condensate per day will not overload their storage and transporting capacity.
- 2) Trail Ridge Energy LLC is in the process of preparing the proper form and registering the used oil tank under Rule 62-762 FAC.
- 3) I contacted Ms. Vicki Valade, HW Manager, 904-807-3379 and she said there is no permitting application form or registration required. All we need to do is to comply to a) Rule 62-710.401 (6) which requires containment at 110% capacity, and b) recordkeeping (maintain records for up to 3 years (the amount generated, stored, and which registered company transported/disposed of the used oil). The containment for the used oil is designed to contain 110% of the tank capacity and Trail Ridge Energy, LLC will maintain the applicable records for the used oil as required by Rule 62-710.510, FAC.

Let me know if you have any additional questions.

Omar E. Smith, P.E.

**S2L, Incorporated**

email: [osmith@s2li.com](mailto:osmith@s2li.com)

770-517-9759

770-330-1638

---

**From:** Bogin, Michael [mailto:Michael.Bogin@dep.state.fl.us]  
**Sent:** Monday, October 13, 2008 10:04 AM  
**To:** osmith@s2li.com  
**Subject:** FW: Tanks registration form

Omar,

As we discussed, please clarify the following three questions:

- Leachate tanks capacity;
- The 2000 gallon waste oil storage tank is regulated by 62-762 FAC;
- The waste oil tank is also regulated by the Hazardous Waste section.

Thank you.

*Michael Bogin  
Engineering Specialist IV  
FDEP Solid Waste Section*

7825 Baymeadows Way, Suite B200  
Jacksonville, FL 32256-7590  
Phone: (904)807-3355  
FAX: (904)448-4362  
[www.dep.state.fl.us/northeast/waste/default.htm](http://www.dep.state.fl.us/northeast/waste/default.htm)>

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.*

---

**From:** Lubinski, David  
**Sent:** Friday, October 10, 2008 3:03 PM  
**To:** Bogin, Michael  
**Subject:** Tanks registration form

Hi Michael!

The 2000 gallon waste oil storage tank is regulated by 62-762 FAC, and must be registered.  
The waste oil tank is also regulated by the Hazardous Waste section as well.

The 4500 gallon new oil process tank is not a storage tank, not regulated.  
Thanks!

**David Lubinski**  
Environmental Specialist III  
FL Dept. of Environmental Protection  
Waste Management Program  
Tanks & Petroleum Cleanup  
7825 Baymeadows Way  
Suite B200  
Jacksonville, FL 32256

Room C206  
Phone (904) 807-3359  
Fax (904) 448-4362  
[David.Lubinski@dep.state.fl.us](mailto:David.Lubinski@dep.state.fl.us)  
<http://www.dep.state.fl.us/northeast/waste/tk.htm>

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## DWM Preindex Coversheet

ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

### Submittal Data

Catalog **Solid Waste**  
Profile **Permitting\_Authorization**  
County **DUVAL**  
Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**  
Document Date **01-30-2009**  
Received Date **01-30-2009**  
Document\_Type **PERMIT APPLICATION RELATED**  
Contractor ID \_\_\_\_\_  
Facility Type **CLASS I LANDFILL (100)**  
Document Subject **Additional information related to Gas-to-Energy Facility permit modification**

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<input type="checkbox"/> Data Sheet	Page Count _____	Scanned By _____
Comments <i>F</i>		QC By _____
		Indexed By _____
		QA By _____
Created By _____		
bogin_m		Date 3/13/09



245218

JB

RECEIVED

December 22, 2008

DEC 29 2008

NORTHEAST DISTRICT  
DEP-JACKSONVILLE

Mr. Emerson C. Raulerson, P.E.  
Solid Waste Section  
Florida Department of Environmental Protection  
Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, FL 32256

RE: Construction Certification for the Landfill Gas-to-Energy Facility  
Permit Modification No. 0013493-016  
City of Jacksonville, Florida – Trail Ridge Landfill  
Existing FDEP Permit No. 0013493-010-SC

Dear Mr. Raulerson:

Please find attached the construction certification form and updated drawing for the above referenced project. There were a couple of minor construction changes which were noted on the form and included on an "As-Build" drawing illustrating the changes.

If you have any questions or comments regarding the enclosed document, please contact me at 770-517-9759 or e-mail me at [osmith@s2li.com](mailto:osmith@s2li.com).

Sincerely,

S2Li, Incorporated

  
Omar E. Smith, P.E.

Florida Registration No. 38358

December 22, 2008

Enclosures

F	OCULUS SW
Initials	SG
Date	3-16-09

cc: Jim Getting, P.E. – Gas Operations Manager, North Florida, Waste Management w/enc.  
Scott P. Gauthier – Trail Ridge Energy, LLC. w/enc.

8029 RIDGE VALLEY ■ WOODSTOCK, GA 30189-7047  
(770) 517-9759 FAX (770) 517-9762

DEP003001



Florida Department of Environmental Protection  
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

DEP Form # 62-701.900(2)
Form Title <u>Certification of Construction Completion</u>
Effective Date <u>May 19, 1994</u>
DEP Application No. _____ (Filled by DEP)

## Certification of Construction Completion of a Solid Waste Management Facility

DEP Construction Permit No: 0013493-016 County: Duval

Name of Project: Landfill Gas to Energy

Name of Owner: City of Jacksonville

Name of Engineer: S2L, Incorporated

Type of Project: Utilization of landfill gas collected from the waste pile as a fuel for the generation of electricity.

Cost: Estimate \$ Cost unknown (borne by Contractor) Actual \$ N/A

Site Design: Quantity: 3,900 (ave.) ton/day Site Acreage: 148 Acres

Deviations from Plans and Application Approved by DEP: The connection locations for the landfill gas and condensate lines were moved approximately 20 feet to the southeast. Please refer to the attached "As- Built" drawing (Drawing C-1a).

Address and Telephone No. of Site: 5110 U.S. Highway 301, Baldwin, FL 32234  
904-289-9100

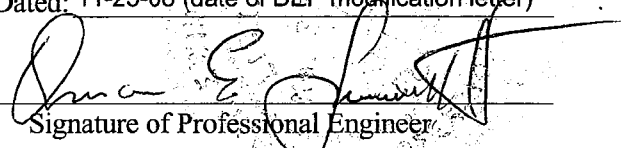
Name(s) of Site Supervisor: Greg Mathes

Date Site inspection is requested: Whenever it meets the Department's scheduling availability.

This is to certify that, with the exception of any deviation noted above, the construction of the project has been completed in substantial accordance with the plans authorized by Construction

Permit No. 0013493-010-SC :Dated: 11-25-08 (date of DEP modification letter)

Date: 12-22-08

  
Signature of Professional Engineer

# RECEIVED

Page 1 of 1

DEC 29 2008

**NORTHEAST DISTRICT  
DEP JACKSONVILLE**

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

DEP003002



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Do not mark.**DWM Preindex Coversheet**

ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

**Submittal Data**Catalog **Solid Waste**Profile **Permitting\_Authorization**County **DUVAL**Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**Document Date **12-22-2008**Received Date **12-29-2008**Document\_Type **PERMIT APPLICATION RELATED**

Contractor ID

Facility Type **CLASS I LANDFILL (100)**Document Subject **Construction Certification for the Landfill's Gas-to-Energy Facility**☐ Double Sided☐ Oversized Pages

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☐ Data Sheet

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

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bogin\_m

Date 3/13/09



**Bogin, Michael**

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**From:** Bogin, Michael  
**Sent:** Monday, December 15, 2008 8:50 AM  
**To:** 'Omar Smith'  
**Cc:** Raulerson, Emerson; Scott Gauthier - LES; James Getting; Sam Levin; Triplett, Mark  
**Subject:** RE: LES's LFG to Energy Facility Permit Mod Application for Trail Ridge Landfill

Omar,

As we discussed earlier, it was not our intention to require condensate sampling at more than one location. Therefore, since all condensate (including that from the LFG to Energy Facility) is collected at PS1, you may continue to take samples from the old location only.

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

---

**From:** Omar Smith [mailto:osmith@s2li.com]  
**Sent:** Thursday, December 04, 2008 1:33 PM  
**To:** Bogin, Michael  
**Cc:** Raulerson, Emerson; Scott Gauthier - LES; James Getting; Sam Levin; Triplett, Mark  
**Subject:** RE: LES's LFG to Energy Facility Permit Mod Application for Trail Ridge Landfill

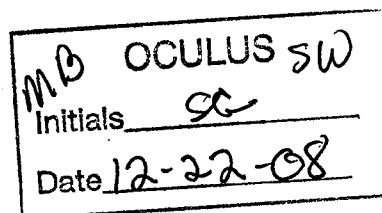
Michael,

We are in receipt of the Department's November 28, 2008 letter approving the requested minor permit application for the above referenced project. As part of this minor permit approval, the Department added a new Specific Condition (SC) No. 14e which was associated with TCLP testing of the condensate from the LFG to Energy facility. As we discussed today, presently, the landfill operator conducts TCLP testing at the existing condensate pump station (which we will call PS1) near the flare station as required by SC no. 14d. To clarify our application, all condensate that is collected from the LFG to Energy Facility and associated piping is sent to the existing condensate pump station (PS1) which is the designated TCLP test location required under SC 14d. It is our understanding that it is not the intent of Specific Condition 14e to require condensate sampling at more than one location. PS1 is to remain the only condensate sampling location, as this location includes all of the condensate collected by the new LFG to Energy facility as well as condensate collected from other locations of condensate generation within the system.

Please let me know if this interpretation is acceptable to the Department.

Thanks.

Omar  
**S2L, Incorporated**  
email: [osmith@s2li.com](mailto:osmith@s2li.com)



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ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

**Submittal Data**Catalog **Solid Waste**Profile **Permitting\_Authorization**County **DUVAL**Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**Document Date **12-15-2008**Received Date **12-15-2008**Document\_Type **PERMIT APPLICATION RELATED**

Contractor ID

Facility Type **CLASS I LANDFILL (100)**Document Subject **Clarification related to Gas-to-Energy Facility Permit  
Modification for Trail Ridge Landfill**☐ Double Sided☐ Oversized Pages

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

bogin\_m *EM*

Date 12/19/08



# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

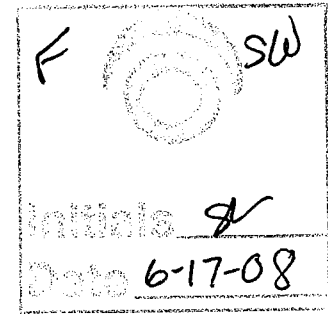
Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

August 1, 2007

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

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



Dear Mr. Mathes:

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

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

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

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

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

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

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

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

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

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

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

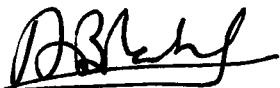
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that DEP's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of DEP have the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

Mediation is not available in this proceeding.

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

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



*for*  
Michael J. Fitzsimmons  
Waste Program Administrator

Enclosure

*ECR*  
ECR:b:cg

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

CERTIFICATE OF SERVICE

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

"FILED, on this date, pursuant to Section 120.52,  
F.S., with the designated Department Clerk,  
receipt of which is hereby acknowledged."

*Carla Corato* 8/1/07  
Clerk Date



# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

**PERMITTEE:**

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

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

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

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

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

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

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

Trail Ridge Landfill, Inc.

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

Page 2

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

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

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

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

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

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



# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

**PERMITTEE:**

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

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

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

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

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

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

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



## Attachment 2 (cont'd)

Trail Ridge Landfill, Inc.

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

Page 2

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

6. **Permit Renewal.** Pursuant to FAC Rule 62-4.090, by ~~September 25, 2007~~ October 19, 2008 the Permittee shall apply for a renewal of the permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five (5) years as required by FAC Rule 62-701.330(2).

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

10. Financial Assurance

~~The Owner and/or Operator of the landfill Permittee~~ shall maintain, in good standing, the financial assurance mechanisms established to demonstrate proof of financial assurance. Support documentation and evidence of inflation adjustment increases shall be submitted within the time frames specified in Rule 62-701.630, F.A.C. All submittals in response to this specific condition shall be sent to:

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

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

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

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

<b>ID:</b>	<b>114330</b>	This ID is read by a scanner. Do not mark.
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## Preindex Coversheet

ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

### Submittal Data

**RECEIVED**

JUN 16 2008

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

Catalog **Solid Waste**  
 Profile **Permitting\_Authorization**  
 County **DUVAL**  
 Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**  
 Document Date **08-01-2007**  
 Received Date **08-01-2007**  
 Document\_Type **PERMIT APPLICATION RELATED**  
 Contractor ID \_\_\_\_\_  
 Facility Type **CLASS I LANDFILL (100)**  
 Document Subject **Modification to the Permit for a Time Extension of the  
Permit to allow the full 5 years**

### Supplemental Index

<input type="checkbox"/> Double Sided	<input type="checkbox"/> Oversized Pages	Prepped By _____
<input type="checkbox"/> Data Sheet	Page Count _____	Scanned By _____
Comments		QC By _____
		QA By _____
Created By <u>F</u>		Date 5/20/08
boesch_j <u>ECR</u>		

DUAL

Florida Department of State Division of Corporations

## Corporation Online

www.sunbiz.org

Public Inquiry

## Foreign Profit

TRAIL RIDGE LANDELL, INC.

PRINCIPAL ADDRESS  
1001 FANNIN SUITE 4000  
HOUSTON TX 77002 US  
Changed 04/14/1999

MAILING ADDRESS  
1001 FANNIN SUITE 4000  
HOUSTON TX 77002 US  
Changed 04/14/1999

Document Number  
P25704

State  
DE

Last Event  
NAME CHANGE AMENDMENT

FBI Number  
363667296

Status  
ACTIVE

Event Date Filed  
05/08/1991

Date Filed  
08/17/1989

Effective Date  
NONE

Event Effective Date  
NONE

## Registered Agent

Name &amp; Address

CT CORPORATION SYSTEM  
1200 S. PINE ISLAND ROAD  
PLANTATION FL 33324

Name Changed: 06/23/1992

Address Changed: 06/23/1992

Officer/Director Detail

Name & Address	Title
HOPKINS, DAVID R 1001 FANNIN STE 4000 HOUSTON TX 77002	P
CARPENTER, DON P 1001 FANNIN SUITE 4000 HOUSTON TX 77002 US	VAT
JONES, RONALD H 1001 FANNIN SUITE 4000 HOUSTON TX 77002 US	TV
STEINER, DAVID P 1001 FANNIN SUITE 4000 HOUSTON TX 77002 US	SVD
SEWELL, FRANCES 1001 FANNIN SUITE 4000 HOUSTON TX 77002 US	AT
SMITH, LINDA J 1001 FANNIN SUITE 4000 HOUSTON TX 77002 US	VAS

Annual Reports

Report Year	Filed Date	Intangible Tax
2001	04/30/2001	
2002	02/28/2002	
2002	09/16/2002	



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[View Events](#)

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## Document Images

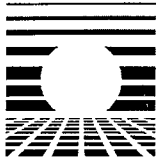
Listed below are the images available for this filing.

<a href="#">09/16/2002 -- COR - ANN REP/UNIFORM BUS REP</a>
<a href="#">02/28/2002 -- COR - ANN REP/UNIFORM BUS REP</a>
<a href="#">04/30/2001 -- ANN REP/UNIFORM BUS REP</a>
<a href="#">05/11/2000 -- ANN REP/UNIFORM BUS REP</a>
<a href="#">04/14/1999 -- ANNUAL REPORT</a>
<a href="#">04/29/1998 -- ANNUAL REPORT</a>
<a href="#">05/02/1997 -- ANNUAL REPORT</a>
<a href="#">04/09/1996 -- 1996 ANNUAL REPORT</a>

THIS IS NOT OFFICIAL RECORD; SEE DOCUMENTS IF QUESTION OR CONFLICT

[Corporations Inquiry](#)

[Corporations Help](#)



# England-Thimby & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • GIS • LANDSCAPE ARCHITECTS

14775 St. Augustine Road, Jacksonville, FL 32258  
(904) 642-8990 Fax: (904) 646-9485 <http://www.etm-inc.com>

*Julian*

## LETTER OF TRANSMITTAL

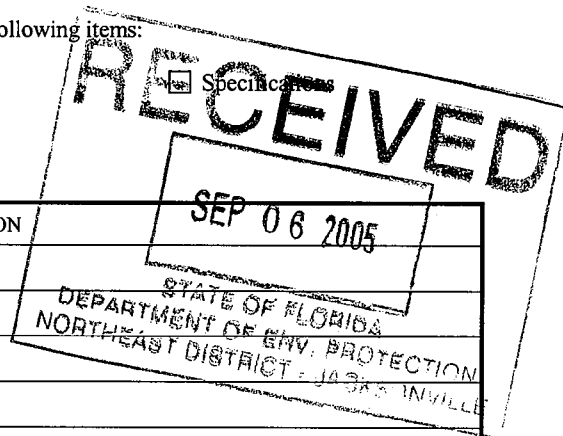
To: Florida DEP  
ATTN: Mary Nogas  
Address: 7785 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256

Date: August 29, 2005  
Job No: 03-154  
Reference: Trail Ridge Fuel Site  
VIA: COURIER

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via \_\_\_\_\_ the following items:

☐ Shop Drawings ☒ Prints ☐ Plans ☐ Samples  
☒ Copy of Letter ☐ Change Order ☐ \_\_\_\_\_

COPIES	DATE	NO.	DESCRIPTION
1			Certification of Completion
2			Set of As-Built Plans
1			Cover Letter



THESE ARE TRANSMITTED AS CHECKED BELOW:

☐ For approval ☐ Approved as submitted ☐ Resubmit \_\_\_\_\_ copies for approval  
☐ For your use ☐ Approved as noted ☐ Submit \_\_\_\_\_ copies for distribution  
☐ As requested ☐ Returned for corrections ☐ Return \_\_\_\_\_ for corrected prints  
☒ Review and comment ☐ \_\_\_\_\_  
☐ FOR BIDS DUE \_\_\_\_\_, 2003 ☐ PRINTS RETURNED AFTER LOAN TO US

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COPY TO: File  
Chris Pearson, Solid Waste & Resource  
Management  
Neil Rushing, Solid Waste & Resource  
Management

SIGNED: *[Signature]*  
\*Scott A. Knowles, P.E.



# England-Thims & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • GIS • LANDSCAPE ARCHITECTS

August 29, 2005

Ms. Mary Nogas  
Florida Department of Environmental Protection  
Northeast District  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256-7590

**Reference: Trail Ridge Landfill Fuel Station**  
**DEP Permit No. 16-0226914-001-SI**  
**ETM Project No. 03-154**

Dear Ms. Nogas:

Please find with this letter the As-Built Certification for the above referenced project. Also included are copies of the As-Built drawings for your records. No substantial deviations from the design plans were noted.

If you have any questions or require further information, please give me a call at 265-3162. Thank you for your assistance.

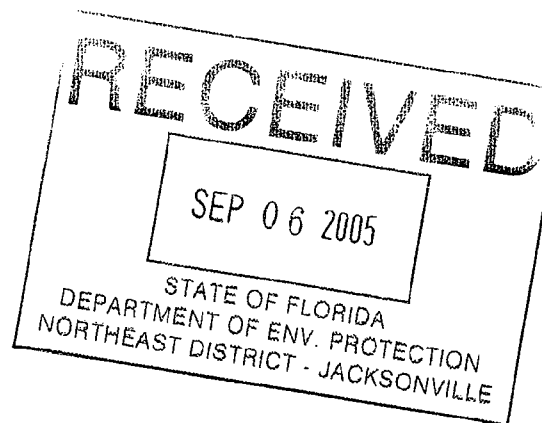
Sincerely,

**ENGLAND-THIMS & MILLER, INC.**

Scott A. Knowles, P.E.  
Project Engineer

Attachments

cc: Chris Pearson: Solid Waste & Resource Management  
Neil Rushing: Solid Waste & Resource Management



**Principals**

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

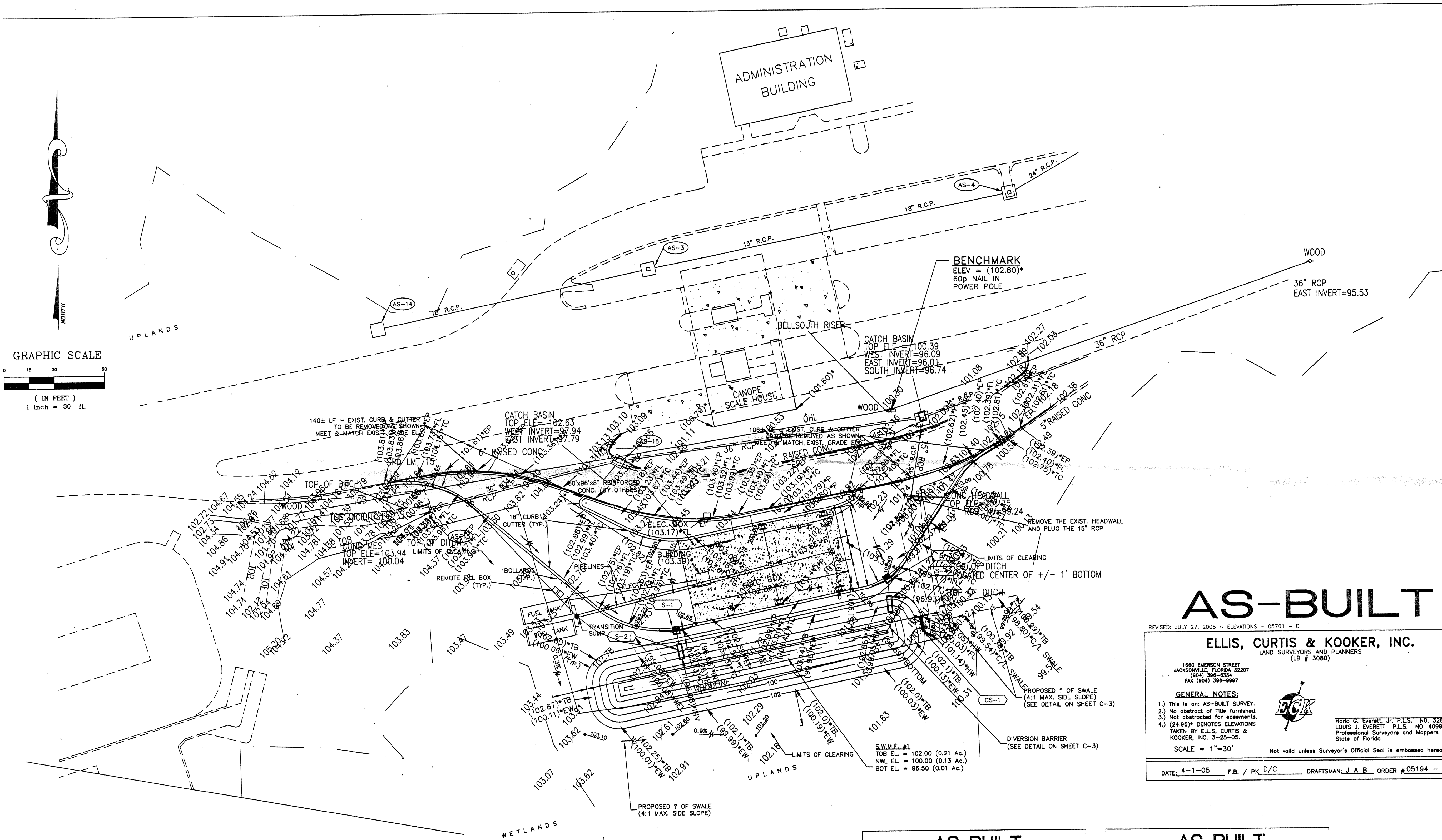
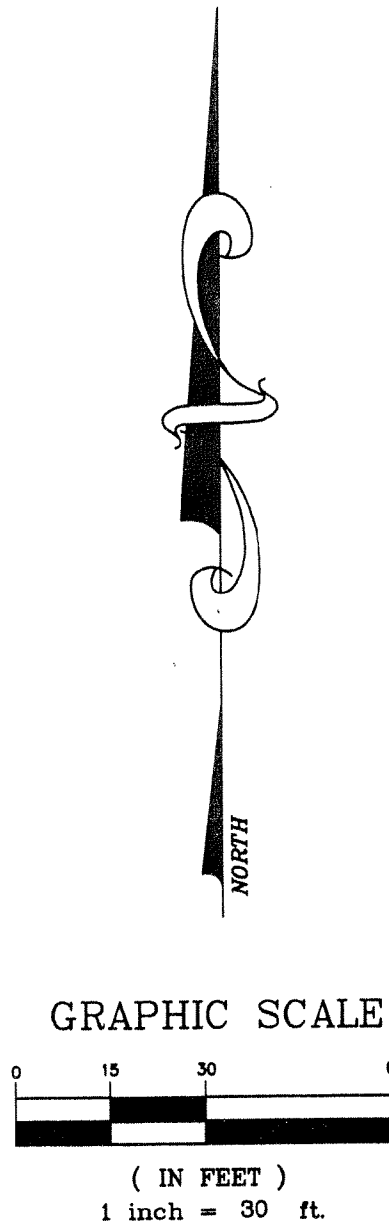
**Emeritus**

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









DRAINAGE STRUCTURE TABLE & SCHEDULE OF PIPES									
STRUCT. No.	STRUCT. TYPE	TOP ELEV.	E.O.P. ELEV.	THROAT ELEV.	INV. IN	INV. OUT	PIPE TYPE	PIPE SIZE	PIPE LENGTH
S-1	C.I.	-	102.26	102.13	-	97.00 (S) 96.77*	RCP	15"	24'
S-2	M.E.S.	-	-	-	96.00	96.68*	-	-	-
S-3	DBL. C.I.	-	102.30	-	-	97.00 96.97*	RCP	15"	20'
S-4	M.E.S.	-	-	-	96.00	96.93*	-	-	-

NOTE:  
1. LIMITS OF CONSTRUCTION ARE 2 FT. FROM THE LIMITS OF CLEARING.  
2. ALL DISTURBED AREA SHALL BE SODDED OR SEEDED AND MULCHED.

# AS-BUILT

REVISED: JULY 27, 2005 ~ ELEVATIONS ~ 05701 ~ D

**ELLIS, CURTIS & KOOKER, INC.**  
LAND SURVEYORS AND PLANNERS  
(LB # 3080)

1660 EMERSON STREET  
JACKSONVILLE, FLORIDA 32207  
(904) 396-6334  
FAX (904) 396-6997

**GENERAL NOTES:**  
1.) This is an AS-BUILT SURVEY.  
2.) No abstract of Title furnished.  
3.) Not abstracted for easements.  
4.) (24.95) DENOTES ELEVATIONS TAKEN BY ELLIS, CURTIS & KOOKER, INC. 3-25-05.

SCALE = 1"=30'

Not valid unless Surveyor's Official Seal is embossed hereon.

DATE: 4-1-05 F.B. / PK D/C DRAFTSMAN: J.A.B. ORDER # 05194 - D

**AS-BUILT**

DATE: 4-1-05  
INFORMATION PROVIDED BY: LOUIS J. EVERETT  
NAME: LOUIS J. EVERETT  
ADDRESS: 1660 EMERSON STREET  
JACKSONVILLE, FLORIDA 32207  
PHONE NO.: (904) 396-6334

I HEREBY CERTIFY THAT THE:  
PAVEMENT \_\_\_\_\_ WATER MAIN \_\_\_\_\_  
CURB & GUTTER \_\_\_\_\_ SANITARY GRAVITY SYSTEM \_\_\_\_\_  
STORM & DRAINAGE \_\_\_\_\_ FORCE MAIN \_\_\_\_\_  
SYSTEM \_\_\_\_\_ LIFT STATION \_\_\_\_\_

ARE AT THE HORIZONTAL AND VERTICAL LOCATIONS AS SHOWN ON THESE "AS-BUILT" DRAWINGS AND MEET THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS PURSUANT TO SECTION 476.07, FLORIDA STATUTES AND THAT THERE ARE NOT ANY ENCROACHMENTS WITHIN THE EASEMENTS OR RIGHT-OF-WAY, EXCEPT AS SHOWN.

SIGNATURE: *Louis J. Everett*  
NAME: LOUIS J. EVERETT  
PROFESSIONAL LAND SURVEYOR NO.: 4099

**AS-BUILT**

INFORMATION PROVIDED BY: *ONAS*  
DATE: 8/5/05  
NAME: ONAS CORPORATION  
ADDRESS: 2044 UNIVERSITY BLVD. N.  
JACKSONVILLE, FLORIDA 32211  
PHONE (904) 745-0508

CONTRACTOR:  
I HEREBY CERTIFY THAT THE MATERIALS AND QUANTITIES USED IN CONSTRUCTION OF:  
PAVEMENT \_\_\_\_\_ WATER MAIN \_\_\_\_\_  
CURB & GUTTER \_\_\_\_\_ SANITARY GRAVITY SYSTEM \_\_\_\_\_  
STORM & DRAINAGE \_\_\_\_\_ FORCE MAIN \_\_\_\_\_  
SYSTEM \_\_\_\_\_ LIFT STATION \_\_\_\_\_

ARE IN ACCORDANCE WITH THE APPROVED PLANS AND CITY SPECIFICATIONS, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

SIGNATURE: *Bardele Onas*  
NAME: BARDELE ONAS  
UNDERGROUND UTILITY LICENSE NUMBER: 24057419

Rev-B	Rev-A	Rev-1	Rev-2	Rev-3	Rev-4	Rev-5	Rev-6	Rev-7	Rev-8	Rev-9	Rev-10	Rev-11	Rev-12
ETMCO-BOR PROJ-NO	DR-BOR	DES-BOR	CK-BOR	SDI	DATE								

TOP-SHEET PLAN  
BOTTLE-NECK  
TITLE UNIT  
CITY-TITLE

**England-Thibbs & Miller, Inc.**  
ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS  
14775 ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32258  
CERTIFICATE OF AUTHORIZATION NUMBER 2584  
PHONE NUMBER (904) 642-8880 FAX NUMBER (904) 646-9485

DR-NO  
WMDNO



# England-Thims & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • GIS • LANDSCAPE ARCHITECTS

June 27, 2006

Mr. Emerson Raulerson, P. E.  
Department of Environmental Protection  
Solid Waste Section  
7825 Baymeadows Way, Suite B-200  
Jacksonville, Florida 32256

Reference: Trail Ridge Landfill  
Maximum Daily Tonnage  
E05191-000

Dear Mr. Raulerson:

On behalf of Trail Ridge Landfill, Inc., we hereby notify the Department that Trail Ridge Landfill has exceeded the maximum daily tonnage on June 1<sup>st</sup> (5288 tons) and 2<sup>nd</sup> (5038 tons) due to an unexpected increase in contaminated dirt being at the facility. The current FDEP Permit No. 0013493-010-SC authorizes a maximum daily tonnage of 5000 tons per day. In order to maintain compliance with the permit and avoid future exceedances, Trail Ridge Landfill, Inc. has requested that England, Thims & Miller, Inc., prepare a permit modification to increase the maximum daily tonnage from 5000 tons to 7000 tons per day. We will work on the application expeditiously in order to get the permit modification submitted to the Department as soon as possible. We hereby request a pre-application meeting with you, to discuss the application and information needed for the permit application package.

Please call me at 265-3132 at your earliest convenience so we can schedule the pre-application meeting. Your assistance is greatly appreciated.

Sincerely,  
ENGLAND, THIMS & MILLER, INC.

*Francis Dayao*  
Francis Dayao, P. E.  
Project Engineer

Copy to: Greg Mathes  
Juanitta Clem, ETM

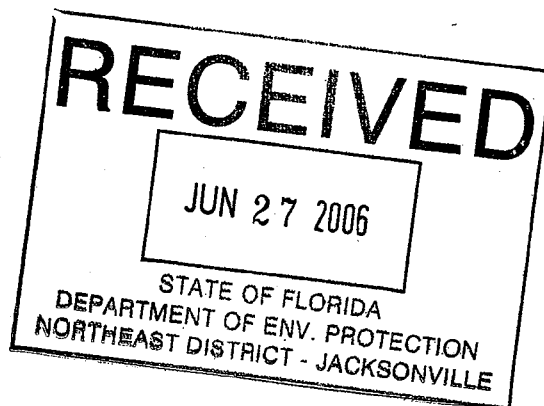
*Emerson said he was handling this and that  
he had spoken with Francis*

#### Principals

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

#### Emeritus

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



**Heuer, Sally**

**From:** Heuer, Sally  
**Sent:** Thursday, August 09, 2007 12:56 PM  
**To:** 'Hair, Linda'  
**Subject:** RE: Arsenic Analytical Results for New Kings Road Railroad Overpass

Linda,

We have reviewed the analytical results from the soil samples collected from the New Kings Road Railroad Overpass project, and approve the use of the soil for initial cover at the Trail Ridge Landfill. If the soil is stored on site prior to use, it shall be stored in accordance with Specific Condition 32 of Permit No. 0013493-010-SC. If you have questions concerning this e-mail, please contact me.

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

**From:** Hair, Linda [mailto:lhair@wm.com]  
**Sent:** Thursday, August 09, 2007 11:44 AM  
**To:** Heuer, Sally  
**Subject:** FW: Arsenic Analytical Results for New Kings Road Railroad Overpass

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

**From:** Hair, Linda On Behalf Of Mathes, Greg  
**Sent:** Wednesday, August 08, 2007 7:15 AM  
**To:** Fanning, John  
**Subject:** FW: Arsenic Analytical Results for New Kings Road Railroad Overpass

John, I think you need to review this also....just let me know what you think (Thanks....Linda Hair)

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

**From:** Pearson, Chris [mailto:ChrisP@coj.net]  
**Sent:** Tuesday, August 07, 2007 5:32 PM  
**To:** Mathes, Greg  
**Cc:** Westbrook, Lynn  
**Subject:** FW: Arsenic Analytical Results for New Kings Road Railroad Overpass

Greg:

As outlined in my telephone message, we have the opportunity to receive up to 20,000 cubic yards of arsenic impacted soils for use as cover material. Please review the attached pdf file which contains the sample results and advise if:

1. you are agreeable to accept these soils for use as cover material;
2. to obtain FDEP approval, will a permit modification be required or will they grant approval via a letter;
3. if you cannot accept all of the material, what quantity will you accept; and
4. what additional sampling or quality control measures will you require during delivery of the material?

As I mentioned in my message, this project is on a very short fuse. If you could give us an answer by weeks end (8/10/07) it would be helpful.

Thanks,  
 Chris Pearson



---Original Message---

From: Eric Fuller [mailto:e.fuller@ellisassoc.com]

Sent: Tuesday, August 07, 2007 4:49 PM

To: Pearson, Chris

Subject: Arsenic Analytical Results for New Kings Road Railroad Overpass

Chris,

Attached are a Figure and Table that shows the soil sampling and analytical results for the New Kings Road Railroad Overpass site. As indicated on the attachments, arsenic was detected above FDEP cleanup target levels in four locations.

The site is the location of a proposed pond site known as Pond #1. In order to expedite the bid process for this project, please assume that the entire 20,000 cubic yards excavated from this pond will be requested for approval at Trail Ridge for daily cover on the interior slopes.

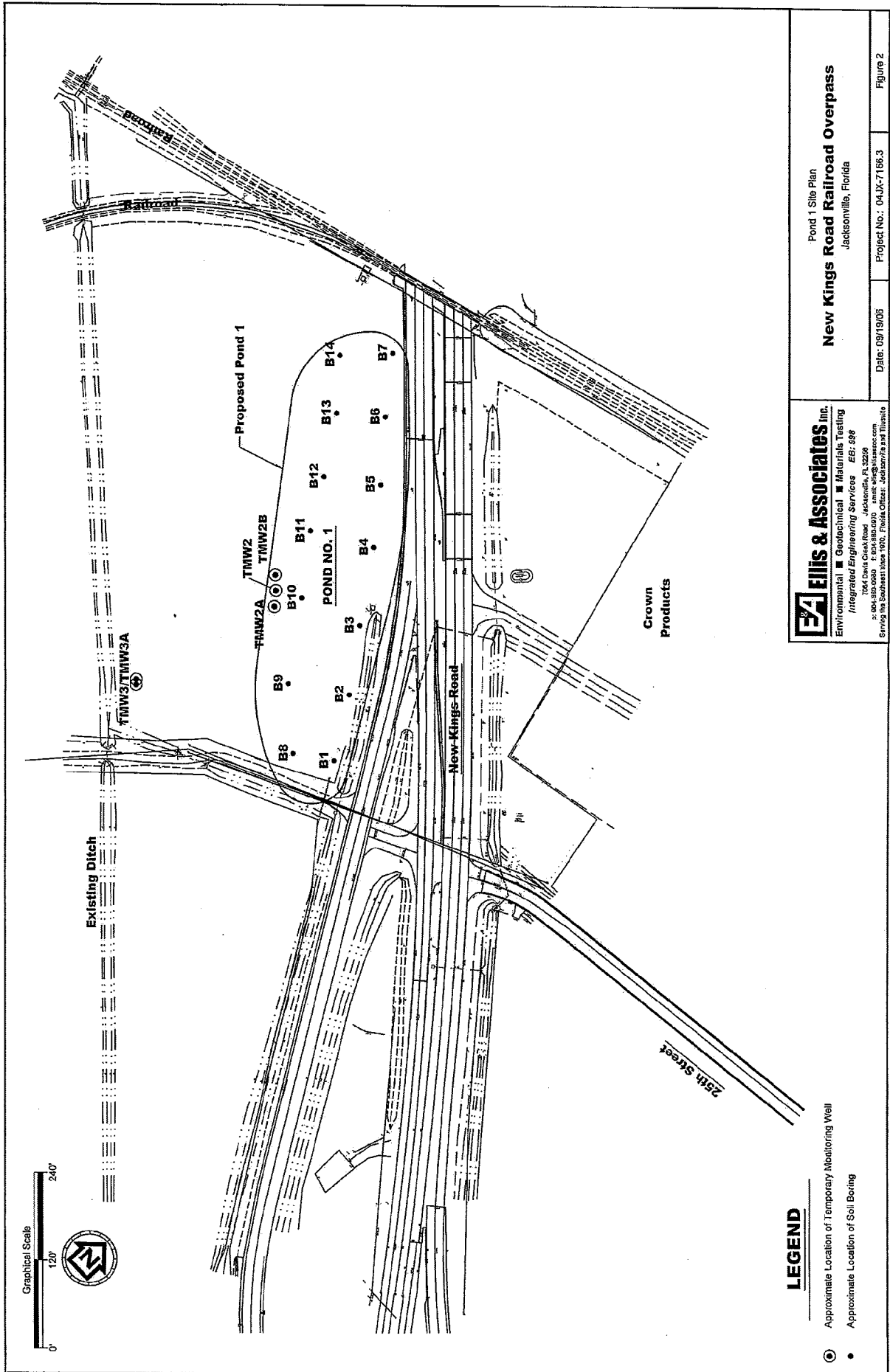
If you have any questions or need the entire lab report for these sample locations, please give me a call. Jeff Cunningham is working with the Better Jacksonville Plan on this project and may provide additional information outside of the environmental sampling. His number is 360-5997.

Thanks for your help.

Eric B. Fuller  
Senior Project Scientist  
Ellis & Associates, Inc.  
7064 Davis Creek Road  
Jacksonville, Florida 32256  
(904) 880-0960 (main)  
(904) 886-5155 (direct)  
(904) 880-0970 (fax)  
e.fuller@ellisassoc.com

Table 2 Soil Cleanup Target Levels New Orleans Refinery EPA Region 4													
Sample No. Sample Date Sample Depth (feet below land surface) Parameter Method (All units in milligrams per kilogram (mg/kg))	B-2 Q-2 7/19/00 2	B-3 Q-2 7/19/00 1	B-4 Q-2 7/19/00 2	B-5 Q-2 7/19/00 2	B-6 Q-2 7/19/00 2	B-7 Q-2 7/19/00 5	B-8 Q-2 7/19/00 2	B-9 Q-2 7/19/00 3	B-10 Q-2 7/19/00 4	B-11 Q-2 7/19/00 6	B-12 Q-2 7/19/00 7	B-13 Q-2 7/19/00 5	B-14 Q-2 7/19/00 12
Arsenic, EPA Method 8010B	0.40(0)	0.43(0)	0.47(0)	0.35(0)	0.47(0)	0.46(0)	0.45(0)	0.44(0)	0.43(0)	0.42(0)	0.41(0)	0.40(0)	0.39(0)
Cadmium, EPA Method 8010	<0.33	<0.34	<0.33	<0.33	<0.33	<0.36	<0.33	<0.36	<0.37	<0.36	<0.36	<0.37	<0.35
Chromium, EPA Method 8010B	2.9(0)	4.1	2.2(0)	2.4(0)	2.2(0)	9.5	2.4(0)	16	12	11	5.7	2.3(0)	210
Lead, EPA Method 8010B	3.8	4.8	2.6	3.4	2.6	4.7	4.5	10	7.6	9.1	4.8	2.4	400
Total Recoverable Petroleum Hydrocarbons, FL-PRO Method	5.7(0)	13(0)	3.6(0)	12(0)	3.6(0)	3.5(0)	6.4(0)	5.0(0)	6.5(0)	6.4(0)	3.6(0)	5.5(0)	17(0)
Acetone, EPA Method 8260	0.053(0)	0.036(0)	0.011(0)	0.055(0)	0.011(0)	<0.016	<0.016	0.0072(0)	<0.0015	<0.0014	<0.0018	<0.0017	<0.0020
Toluene, EPA Method 8260	0.0036(0)	0.0029(0)	0.0030(0)	0.0020(0)	0.0015(0)	0.0015(0)	0.0012(0)	0.0011(0)	<0.0022	<0.0021	<0.0027	<0.0026	<0.0029
Ethylbenzene, EPA Method 8260	0.00061(0)	0.00047(0)	0.00032(0)	<0.00036	<0.00032	<0.00033	<0.00033	<0.00031	<0.00028	<0.00027	<0.00033	<0.00033	<0.00037
Xylenes (total), EPA Method 8260	0.00445	0.00347	0.00216	0.00216	0.0014	0.0012	0.0012	0.001	<0.00090	<0.00085	<0.00107	<0.00105	<0.00118
1,2,4-Trimethylbenzene, EPA Method 8260	0.0010(0)	0.00081(0)	0.00082(0)	0.00051(0)	<0.00043	<0.00040	<0.00040	<0.00041	<0.00037	<0.00035	<0.00044	<0.00044	<0.00049
Isopropyltoluene, EPA Method 8260	0.0019(0)	0.00041(0)	<0.00038	<0.00044	<0.00039	<0.00036	<0.00036	<0.00037	<0.00034	<0.00032	<0.00040	<0.00039	<0.00044
All other Volatile Organic Compounds by EPA Method 8260	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-Ethylhexyl)Phthalate, EPA Method 8270	<0.036	<0.037	<0.039	<0.036	<0.035	<0.038	<0.035	<0.038	0.062(0)	0.076(0)	<0.035	<0.039	<0.038
All Other Semi-Volatile Organic Compounds by EPA Method 8270	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
FEDER SCTL Leachability Based on Groundwater Criteria (mg/kg)													
FEDER SCTL Direct Exposure Commercial/Industrial (mg/kg)													
FEDER SCTL Direct Exposure Residential (mg/kg)													
FEDER SCTL Direct Exposure Industrial (mg/kg)													
FEDER SCTL Leachability Based on Groundwater Criteria (mg/kg)													

Notes:  
 \* Florida Department of Environmental Protection Soil Cleanup Target Levels, Table II, Chapter 62-777, Florida Administrative Code  
 \* Leachability values may be derived using the SPLP Test to calculate site-specific SCTLs or may be determined using TOLP in the event that oily wastes are present.  
 BDL - Below laboratory detection limits  
 Bolded numbers indicate an exceedance of regulatory criteria  
 NL - Not Listed as a SCTL  
 (0) Concentration detected between method detection limit and reportable limit



**LEGEND**

- Approximate Location of Temporary Monitoring Well
- Approximate Location of Soil Boring

**EA Ellis & Associates Inc.**  
 Environmental ■ Geotechnical ■ Materials Testing  
 Integrated Engineering Services EB: 598  
 704 Davis Creek Road Jacksonville, FL 32209  
 P: 904-333-0030 F: 904-333-0070 email: ellis@ellisaec.com  
 Serving the Southeast Since 1970. Field Offices: Jacksonville and Tallahassee

Pond 1 Site Plan  
**New Kings Road Railroad Overpass**  
 Jacksonville, Florida

Date: 09/19/05 Project No.: 04JK-7156.3 Figure 2

JMS - 04JK7156.2

**ID:****35489**This ID is read by a scanner.  
Do not mark.

## Preindex Coversheet

ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

### Submittal Data

Catalog **Solid Waste**Profile **Permitting\_Authorization**County **DUVAL**Facility-Site ID **33628 - TRAIL RIDGE LANDFILL LF1**Document Date **08-09-2007**Received Date **08-09-2007**Document\_Type **ALTERNATE INITIAL COVER RELATED**

Contractor ID

Facility Type **CLASS I LANDFILL (100)**Document Subject **approval to use contaminated soil from New Kings Rd  
Railroad Overpass project for initial cover**

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### Supplemental Index

☐ Double Sided☐ Oversized Pages

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

☐ Data Sheet

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

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

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

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

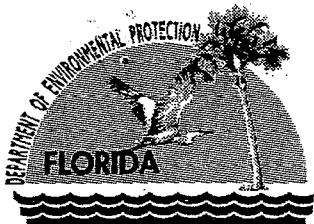
Comments

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

Date 8/9/07

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DEP003027



# Department of Environmental Protection

Jeb Bush  
Governor

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

David B. Struhs  
Secretary

December 19, 2003

In the matter of an  
Application for Permit by:  
Trail Ridge Landfill, Inc.  
5110 U.S. Hwy 301  
Baldwin, Florida 32234

DEP File Nos. 0013493-10, 0013493-11, and 126289-001  
Duval County

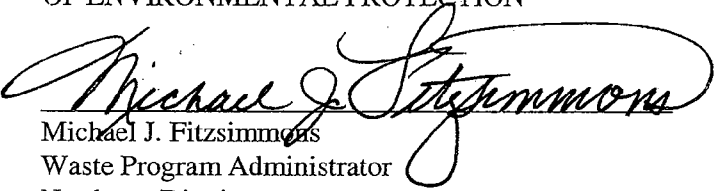
## NOTICE OF PERMIT

Enclosed is Permit Number 0013493-010-SC, a renewal permit to continue to operate the Trail Ridge Landfill facility located at 5110 U.S. Highway 301 in Duval County, Baldwin, Florida, issued pursuant to Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-701.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, MS #35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Michael J. Fitzsimmons  
Waste Program Administrator  
Northeast District  
7825 Baymeadows Way, Suite B-200  
Jacksonville, Florida 32256-7590  
(904) 807-3300

*MW*  
Copies furnished to: Juanitta Bader Clem, P.E.  
Chris Pearson

## CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT was mailed before the close of business on December 19, 2003.

### **FILING AND ACKNOWLEDGEMENT**

FILED, on this date, pursuant to S120.52 Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.

"More Protection, Less Process"

Printed on recycled paper.

Clerk

Date

DEP003028





# Department of Environmental Protection

Jeb Bush  
Governor

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

David B. Struhs  
Secretary

**PERMITTEE:**

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

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

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

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

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

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

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

*"More Protection, Less Process"*

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007

This permit is issued in accordance with the permit application received September 26, 2002 and supplemented on December 16, 2002, and March 17, May 16, July 10, August 8, October 28, 2003, and includes Department Files Number 0013493-010, 0013493-011, and 126289-001.

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The Permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.987(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the Permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The Permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the Permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

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

I. D. Number: NED/16/00033628  
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Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007

GENERAL CONDITIONS:

7. The Permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
  - (a) Have access to and copy any records that must be kept under conditions of the permit;
  - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - (c) Sample or monitor any substances or parameters at any location reasonable necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the Permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the Permittee shall immediately provide the Department with the following information:
  - (a) A description of and cause of noncompliance; and
  - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to educe, eliminate, and prevent recurrence of the noncompliance. The Permittee shall be responsible for any and all damages that may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. In accepting this permit, the Permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The Permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the Permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule

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

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Expiration Date: November 25, 2007

**GENERAL CONDITIONS:**

- 62-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300 F.A.C., as applicable. The Permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
  12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
  13. This permit also constitutes:
    - ( ) Determination of Best Available Control Technology (BACT)
    - ( ) Determination of Prevention of Significant Deterioration (PSD)
    - (X) Certification of compliance with state Water Quality Standards (Section 401, PL 92-500)
    - ( ) Compliance with New Source Performance Standards
  14. The Permittee shall comply with the following:
    - (a) Upon request, the Permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
    - (b) The Permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
    - (c) Records of monitoring information shall include:
      1. the date, exact place, and time of sampling or measurements;
      2. the person responsible for performing the sampling or measurements;
      3. the dates analyses were performed;
      4. the person responsible for performing the analyses;
      5. the analytical techniques or methods used;
      6. the results of such analyses.

PERMITTEE:  
Trail Ridge Landfill, Inc.  
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#### GENERAL CONDITIONS:

15. When requested by the Department, the Permittee shall within a reasonable time furnish any information required by law that is needed to determine compliance with the permit. If the Permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

#### SPECIFIC CONDITIONS:

1. The Trail Ridge Landfill shall be constructed, operated and maintained in accordance with this permit and all applicable requirements of Chapters 62-4, 62-25, 62-28, 62-522, 62-550, 62-701 and 62-730 Florida Administrative Code (FAC) and the following documents submitted in support of Department File Numbers 0013493-010, 0013493-011, and 126289-001.
  - a. **Document 1** - "Permit Documents for Trail Ridge Landfill – Second Renewal," prepared by England-Thims and Miller, Inc., and Drawing Sheets 1 through 23, and 19A, dated September 25, 2002, signed and sealed by Juanitta Bader Clem, P. E., received on September 26, 2002.
  - b. **Document 2** - "Permit Documents for Trail Ridge Landfill – First RAI Response," prepared by England-Thims and Miller, Inc., and revise Drawing Sheets 9A, 11 through 15 and 21, dated December 13, 2002, signed and sealed by Juanitta Bader Clem, P. E., received on December 16, 2002.
  - c. **Document 3** - Permit Documents for Trail Ridge Landfill – Second RAI Response," prepared by England-Thims and Miller, Inc., and revised Drawing sheet 4, dated March 17, 2003 signed and sealed by Juanitta Bader Clem, P. E., received on March 17, 2003.
  - d. **Document 4** - Permit Documents for Trail Ridge Landfill – Third RAI Response," prepared by England-Thims and Miller, Inc., and revised Drawing sheet number 7, dated May 15, 2003, signed and sealed by Juanitta Bader Clem, P. E., received on May 16, 2003.
  - e. **Document 5** - Trail Ridge Landfill – Second Permit Renewal – Fourth Request for Additional Information" response to comment 19, prepared by England-Thims and Miller, Inc., dated July 11, 2003, signed and sealed by Juanitta Bader Clem, P. E., received on July 10, 2003.

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

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Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007

**SPECIFIC CONDITIONS:**

- f. **Document 6** Trail Ridge Landfill – Second Permit Renewal – Revision to Fourth Request for Additional Information” revision to response to comment 19, prepared by England-Thims and Miller, Inc., August 8, 2003, signed and sealed by Juanitta Bader Clem, P. E., received on August 8, 2003.

**The following documents are incorporated by reference.**

- g. **Document 7** - “Permit Documents for Trail Ridge Landfill - Operation and Construction Renewal,” prepared by England-Thims and Miller, Inc., dated October 28, 1996, signed and sealed by Juanitta Bader Clem, P. E., received on October 28, 1996;
- h. **Document 8** (formerly Document 3) - “Trail Ridge Landfill - Landfill Gas Management System Design and Engineering Calculations,” dated November 1996, prepared by Rust Environment and Infrastructure, signed and sealed by Thomas M. Yanoschak, P. E., received November 19, 1996; and Corrected Drawing Number P1, received October 9, 1997, signed and sealed by Thomas M. Yanoschak, P. E.

**NOTE: The above listed documents are referenced in this permit by document numbers.**

2. A copy of the Department approved engineering drawings, plans, reports, operation and contingency plans, all revisions and supporting information as well as a copy of this permit shall be kept at the Trail Ridge Landfill office at all times for reference and inspections.
3. **Other Applicable Permits.** Receipt of any permits from the Department does not relieve the applicant from obtaining other federal, state, and local permits required by law including those of the St. Johns River Water Management District.
4. **Other Regulatory Requirements.** If any other regulatory agency should require revisions or modification to the permitted project, the Department is to be notified of the revisions so that a determination can be made whether a permit modification is required.
5. **Transfer of Permit.** The Department must be notified, in writing, using DEP Form Number 62-701.900(8), within thirty (30) days of any sale, conveyance, or other transfer of the facility or within thirty (30) days of any transfer of ownership or control of the real property at which the facility is located. All transfers of ownership or transfers of a permit are subject to the requirements of FAC Chapter 62-4. In addition, permit transfers shall comply with the requirements of Rule 62-701.320(11), FAC.

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Trail Ridge Landfill, Inc.  
5110 U.S. Highway 301  
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#### **SPECIFIC CONDITIONS:**

6. **Permit Renewal.** Pursuant to FAC Rule 62-4.090, by September 25, 2007 the Permittee shall apply for a renewal of the permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five (5) years as required by FAC Rule 62-701.330(2).
7. **Notification in Case of an Emergency.** The Permittee shall immediately notify the Department by telephone whenever a serious problem occurs at the facility including a fire or other emergency, which poses an unanticipated threat to the public health or the environment. During regular business hours, notification shall be made to the Northeast District Office at (904) 807-3300. If an emergency occurs outside regular business hours, the Permittee shall telephone the 24-hour emergency phone number (800) 320-0519. This number is for emergencies only. Within seven (7) days of any emergency, the Permittee shall submit to the Department, a written report explaining the extent of the problem, the cause, and what actions have been or will be taken to correct the problem, or prevent its recurrence.
8. **Provisions of Temporary Source of Potable Water.** The Permittee shall provide a temporary source of potable water within seven (7) days and a permanent safe drinking water supply within 180 days of discovery of contamination to replace any potable water well that is shown by chemical and hydrogeologic analysis to be contaminated by the facility. This temporary source of water shall meet all drinking water standards set forth in FAC Chapter 62-550 and shall be provided at the Permittee's expense.
9. **Design Elevations and Annual Survey.** The maximum design elevation for the Trail Ridge Landfill is elevation 350.6 ft. MSL. This maximum specified elevation shall include the final cover system. A survey of the waste disposal areas shall be conducted and submitted to the Department between July 1 and September 1 of each year of this permit until it is within ten (10) feet of the maximum design elevation, after which the survey shall be conducted quarterly. This information is to be submitted to the Department within sixty (60) days of conducting the survey and shall include the existing elevations in five foot contour intervals and in reference to the National Geodetic Vertical Datum, all points designed for terraces and the location of the toes of the side slopes.
10. **Financial Assurance.** The Permittee shall maintain, in good standing, the financial assurance mechanisms established to demonstrate proof of financial assurance. Support documentation and evidence of inflation adjustment increases shall be submitted within the time frames specified in Rule 62-701.630, FAC. All submittals in response to this specific condition shall be sent to: Financial Coordinator, Solid Waste Section, Florida Department of Environmental Protection, Mail Station Number 4565, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. The Permittee shall file with the Department a signed duplicate of the escrow account

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

I. D. Number: NED/16/00033628  
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Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007

## **SPECIFIC CONDITIONS:**

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

11. **Annual Cost Estimates.** The Permittee shall annually adjust the closure cost estimate for inflation using Form 62-701.900(28). Adjustments shall be made in accordance with Rule 62-701.630(4), FAC and 40 CFR Part 264.142(a) and 264.144(a). An owner or operator using a letter of credit, guarantee bond, performance bond, financial test, corporate guarantee, trust fund or insurance shall submit the adjusted cost estimate between January 1 and March 1. An owner or operator using an escrow account shall submit the adjusted estimate between July 1 and September 1 of each year. Closure costs shall include an annual estimate of the remaining life and capacity in cubic yards of the existing constructed landfills, and the remaining capacity and site life of other permitted areas not yet constructed. All submittals in response to this specific condition shall be sent to: Solid Waste Supervisor, Florida Department of Environmental Protection, 7825 Baymeadows Way Suite 200 B, Jacksonville, Florida 32256-7590 with a copy to: Financial Coordinator, Solid Waste Section, Florida Department of Environmental Protection, Mail Station Number 4565, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.
12. **Use of closed landfill areas.** Pursuant to FAC Rule 62-701.610(7), the Department retains regulatory control over any activities that may affect the integrity of the environmental protection measures such as the monitoring system and stormwater controls. The Permittee shall consult with the Department prior to conducting any activities on the landfill other than the activities proposed in the permit application.
13. **Closure permit requirement.** At least 90 days before the date when waste will no longer be accepted at the Class I Landfill, the Permittee shall submit a closure permit application to the Department for review and approval. The application shall be on the appropriate form DEP Form No. 62-701.900(1), and shall include all of the required information.
14. **Active Gas Collection System.**
  - a. **Authorization and Permits.** This permit authorizes Trail Ridge Landfill to construct and operate an active gas collection system. However, the Permittee shall be responsible for obtaining all other necessary permits for the construction and operation of the active gas collection system. All requirements of FAC Chapter 62-701, the New Source Performance Standards (NSPS) for Municipal Solid Waste Landfills (40 CFR 60.756), FAC Rule 62-296, 40 CFR 60.18, and all applicable Department regulations, shall apply to the proposed active



PERMITTEE:  
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Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007

**SPECIFIC CONDITIONS:**

writing, that all required documents related to the construction have been submitted and determined acceptable. Prior to activating the system, the **Permittee shall also obtain authorization from any other applicable agency.**

- d. **Gas Condensate Testing.** Gas condensate shall be tested semi-annually for Toxicity Characteristics Leaching Procedure (TCLP) parameters with the results submitted to the Department no later than June 30 and December 31 of each year commencing from the year the active gas collection system's construction has been approved by the Department and becomes operational. For each sampling event, a sample shall be taken from the condensate pump station and analyzed. The sampling location may be modified upon obtaining Department approval. Should the results of the TCLP analyses exceed regulatory standards, the Permittee may be required to modify the system to collect and isolate the gas condensate from the landfill's leachate collection system.
  - e. This permit does not authorize gas recovery at the Trail Ridge Landfill.
  - f. During the construction of the active gas collection system in areas where final cover has been installed, i.e., completed side slope units, the Permittee shall ensure that the final cover system is restored back to the original project closure construction specifications and in accordance with the QA/QC plan. These activities shall be documented and shall be submitted as part of the reporting requirements specified in Specific Condition No. 14c above.
  - g. The facility shall inspect the sufficiency of the temporary header pipes and wells, especially in areas of settlement. If discovered to become inoperable and irreparable, the Permittee shall sever the temporary header from the header system and abandon it. A new header pipe shall be installed to connect the gas wells to the vacuum system. If inoperable but repairable, the Permittee shall either repair it or replace it. If the Permittee elects to replace it rather than repair it, the deficient header shall be severed from the header system and abandoned. Temporary wells may be extended vertically, as waste is placed around them. If a temporary well is abandoned, it shall be grouted full, cut at least 18 inches below ground surface, and covered with a minimum of 18 inches of clean fill.
15. **Hours of Operation.** The Permittee shall operate the Trail Ridge Landfill in accordance with this permit, FAC Rule 62-701; the documents (unless otherwise specified) referenced in Specific Condition Number 1 of this permit, and all applicable Department rules. The normal operating hours for the facility shall be from 6:00 A.M. to 7:00P.M., Monday through Friday, and from 6:00 A.M. to 1:00 P.M. on Saturdays. Depending on the waste receipt rate, these normal operating

PERMITTEE:  
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Expiration Date: November 25, 2007

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gas collection system. The active gas collection system and all associated structures and systems shall be constructed in accordance with Document 8 (formerly Document 3 including the revisions to the QA/QC plan for the gravel and the gas well plugs, dated May 8, 1997), manufacturer's specifications and standard industry practices, as amended by Documents 1, 2, 3 and 4, and by this specific condition. Installation of the active gas collection system shall be as required by the NSPS for Municipal Solid Waste Landfills and shall proceed in phases as sections of the landfill are brought up to final grade and elevations. The permanent active gas collection system shall be installed in phases. Portions of the system shall be constructed during each closure construction phase, as reflected on drawing sheet numbers 14 and 15, "Closure Phasing Plan," of Document 2. The final permanent gas collection system including header pipes shall be installed during the final closure construction phase and shall be constructed as reflected on Drawing sheet number 9A, Document 2 and placed into operation. Interim wells may also be installed in areas that have not achieved final grades in order to allow for immediate gas collection until the permanent wells are installed or until the final grades are reached. Passive flares, as shown on Drawing Number P6 of Document 8, (formerly Document 3), may be installed over proposed and existing gas wells prior to start up of the active gas collection system.

- b. **Associated Structures.** The blower, flare station and the 5 condensate knockout units shall be constructed as shown on Drawing Number P1 (Corrected Page) and the Gas Management Plan of Document 8 (formerly Document 3). Upon completion of the active gas collection system, approximately 73 gas extraction wells, which extend approximately 10 feet from the bottom liner system, will be installed at the landfill. A unique identification number shall be assigned for each gas extraction well. The location and installation of the gas extraction wells, headers and lateral alignment and liquid management facilities may slightly vary to accommodate landfill field slope.
- c. **Construction Certification.** Upon completion of the active gas collection system, the Permittee or authorized representative, shall complete and submit to the Department, DEP Form 62-701.900(2), "Certification of Construction Completion of a Solid Waste Management Facility." In addition, the professional engineer in charge of construction quality assurance shall certify that the active gas collection system has been constructed in substantial conformance with the plans and project specifications and shall provide a signed and sealed final construction quality assurance report, record documentations (including well construction logs) and record drawings to the Department. At such time, the Permittee shall arrange for Department representatives to inspect the construction of the active gas collection system in the company of the Permittee, Project Engineer and the landfill operator. The active gas collection system shall not be operated until the Department has notified the Permittee, in

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hours may be extended from 5:00 A.M. to 10:00 P. M. During emergency situations, i.e., after a hurricane, the facility may operate beyond these specified hours; however, the Department shall be notified, at the first available opportunity, of the extended hours. If landfill operations commences before daylight or extends beyond non-daylight hours, the Permittee shall illuminate the working face and unloading area with a minimum intensity of 3 foot-candles, to ensure proper waste screening. The facility's lighting equipment shall be kept and maintained at the site. The Permittee or the landfill operator shall be responsible for ensuring that adequate staff to cover all shifts and equipment are available at the facility to maintain proper landfill operations.

16. **Operating Personnel.** As required by FAC Rule 62-701.500(1), at least one (1) trained operator shall be present at the landfill during all times when the landfill receives waste. Trained operators are those who satisfy the definition provided in FAC Rule 62-701.200 (89) and who satisfy the requirements of Chapter 62-701.320(15) for both initial and continued training. Also, at least the minimum number of spotters listed in the matrix "Trail Ridge Landfill Evaluation of Personnel Requirements," contained in Attachment A of Document 4, and included herein as Attachment 10 for the corresponding waste amounts shall be provided at the working face at all times the facility is operating. At all times the facility is receiving waste at the working face at least one trained spotter shall be present at the working face. The spotters shall satisfy the definition provided in FAC Rule 62-7-1.320(15)(h)) and shall satisfy the training requirements of Chapter 62-701.320(15) for both initial and continued training.

Training Certifications shall be kept on site and shall be made available to the Department at the Department's request including during a routine site inspection. The Department suggests that the Permittee contact the Department or visit the TREEO Center web site, to ensure the course selected for training is still valid for the facility and position requiring training

In addition to the trained operators and spotters the Permittee shall provide the other minimum personnel listed in the said aforementioned matrix and the equipment required pursuant to specific condition number 17 for the corresponding waste amounts. For example, if the facility is accepting in the range of more than 4500 tons of waste up to 5,000 tons of waste in a day, there shall be, during the peak times of 6:00 a.m. to 7:00 am, and 10:00 am to 3:00 pm, a minimum, in addition to 2 trained spotters, 3 day laborers and 4 equipment operators, for a minimum total of 9 people. The laborers shall spot waste and remove prohibited waste under the direction of a trained spotter stationed at the working face.

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17. **Landfill Equipment.** The on-site equipment shall consist of: three (3) compactors and 2 dozers at a minimum. If the waste receipt rate exceeds 1300 tons per day, the Permittee shall provide two (2) compactors at the working face; if the waste receipt rate exceeds 2600 tons per day, three (3) compactors shall be provided at the working face. The Permittee shall ensure that sufficient reserve equipment is available or arrangements to obtain additional equipment within 24 hours of equipment breakdown have been made.
18. **Maximum Daily Tonnage.** Provided the minimum equipment per specific condition number 17 and personnel listed in the matrix "Trail Ridge Landfill Evaluation of Personnel Requirements," contained in Attachment A of Document 4 for accepting 5000 tons of waste, i.e., a minimum of 2 trained spotters, 3 laborers and 4 equipment operators, for a minimum of 9 people, the facility may accept up to, but no more than, 5000 tons of solid waste during any one maximum working day. As an exception more waste may be accepted if during an emergency situation, i.e., after a major storm event, in which case, special accommodations are made to handle additional volume of solid waste.
19. **Fill Phasing Plan.** The facility shall be operated and closed in phases. The sequence of fill operations at the Trail Ridge Landfill shall be in accordance with the "Fill Phasing Plan," reflected on Drawing Sheet Numbers 11, 12, and 13 (Fill Phase 7 through Fill Phase 14). Waste filling operations in each phase shall generally proceed from east to west. The facility shall place waste and conduct operations in a manner to prevent the ponding of stormwater in waste, the mixing of leachate with stormwater, and the running off of leachate into the stormwater system. As the areas are filled during operations, they shall be closed in accordance with the "Closure Phasing Plan" reflected on drawing sheet numbers 14 and 15 of Document 2, referenced in Specific Condition Number 1. The facility shall conduct the phased closures in accordance with specific condition number 41. The Permittee shall conduct on site surveying during operations to ensure the design elevations and grades are met yet not exceeded, and to ensure that the closure construction is provided at the correct elevations. The surveying shall be conducted pursuant to response number 59 of Documents, 2, 3 and 4.
20. **Monitoring of Waste.** Pursuant to FAC Rule 62-701.500(6), the Permittee shall implement a load-checking program to detect and discourage attempts to dispose of unauthorized wastes at the landfill. The load-checking program shall consist of the following minimum requirements:
  - a. The landfill operator shall examine at least three (3) random loads of solid waste delivered at the landfill each week. The waste collection vehicle drivers selected by the inspector shall be directed to discharge their loads at a designated location within the landfill. A detailed inspection of the discharged material shall be made for any unauthorized wastes.

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- b. If any unauthorized wastes are found, the facility shall contact the generator, hauler, or other party responsible for shipping the waste to the landfill to determine the identity of the waste resources.
- c. **Recording Inspection Results.** Information and observations resulting from each random inspection shall be recorded in writing and retained at the Trail Ridge Landfill office for at least three (3) years. The recorded information shall include, at a minimum, the following:
  - 1. The date and time of the inspection;
  - 2. The names of the hauling firm and driver of the vehicle;
  - 3. the vehicle license plate number;
  - 4. the source of the waste, as stated by the driver; and
  - 5. observations made by the inspector during the detailed inspection.

The written record shall be signed by the landfill inspector and shall be made available to Department representatives during inspections.

- 21. **Waste Inspection at the Working Face.** Every load shall be inspected by a spotter for unauthorized waste as it is being unloaded and as it is being spread prior to disposal. The landfill operator shall be responsible for providing additional spotters during peak hours or when the waste receipt rate is more than what the spotter(s) at the working face can adequately inspect. Any prohibited waste shall be removed to the appropriate designated temporary storage location and removed to a facility authorized to accept it.
- 22. **Prohibited Wastes and Liquid Restrictions.** Unacceptable waste, including, but not limited to white goods, waste oil, yard waste, whole tires and lead acid batteries shall not be disposed of at the Class I landfill. Special waste accepted at the facility shall be stored in the respective designated areas until removal, which shall be on an as-needed basis and as specified in this permit, but no less than once a year. Additionally, liquids shall not be disposed of in a manner that would violate the liquid restrictions of FAC Rule 62-701.300(10).
- 23. **Handling and Removal of Hazardous Waste.** Loads containing hazardous waste shall be rejected. Loads containing hazardous waste that are inadvertently discharged at the working face, upon discovery shall be removed from the working face and managed in accordance with the applicable local, state and federal regulations. Facility personnel should handle all hazardous waste, as defined in 261.3(a)(1) of Title 40 Code of Federal Regulations (40 CFR), that is discovered at the facility in accordance the requirements set forth in Section 261.5 of 40 CFR. If at any time hazardous waste is inadvertently accepted at the facility, the Permittee shall notify

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Department solid waste and hazardous waste sections of the incident by the end of the workday or if after Department office hours by the next Department work day. Additionally, the Permittee shall provide, within seven days of the incident, a written report addressing the incident including how the waste was and is being managed and an assessment of the extent of contamination. The Permittee shall follow the procedures provided in Document 2, response 10 and as amended by this specific condition and as may be amended by any local, state, and/or federal regulations. The Permittee shall delineate in the field and record in logs the extent of contamination by the hazardous waste materials. The Permittee shall remove the waste to a facility authorized/permitted to accept it and shall remove it as soon as possible, and within a time frame that will not exceed 30 days from the date of discovery. The Permittee shall record the incident in logs and shall include in the logs the identification of the facility to where the materials were removed. Said records shall be made available to the Department upon request. Finally, facility personnel shall be familiar with the plan and shall have the plan readily accessible on site.

24. **Asbestos Disposal.** Asbestos disposal shall be in accordance with FAC 62-701.520(4) and all applicable rules and regulations. Regulated asbestos waste shall only be disposed of in a designated asbestos disposal area while an authorized, qualified landfill employee, supervises the activity. Signs shall be posted identifying the designated asbestos disposal area. Each disposal location shall be recorded in accordance with 40 CFR Part 61.154 and records shall be maintained at the facility. Asbestos waste shall immediately be covered with either one-foot of clean soil or three feet of solid waste which does not contain asbestos, with a minimum of six inches of daily cover.
25. **White goods.** Any white goods discovered at the working face shall be removed from the waste stream upon discovery. The white goods may be placed near the working area within lined area until removal to the 30 cubic yard roll off container, designated for white good storage only, which shall be by the end of the work day. The roll off containers shall be maintained on a paved area, at the location reflected on Drawing Sheet No 4, "revised Site Plan," contained in document 3. White goods shall be removed from the site on a minimum quarterly basis and more frequent as needed. White goods, which may contain chlorofluorocarbons (CFCs) such as Freon, shall be stored and managed in a manner such that CFCs are not discharged to the environment.
26. **Batteries.** Batteries shall be stored in the concrete storage area and on pallets. Facility personnel shall prevent rainwater from collecting in the storage area to the point where the water is in contact with the batteries. To that end, facility personnel shall check the water level in the storage area at least once each week and after any heavy rain events. In the event, more water is collecting than evaporating, the facility shall pump out the liquid and manage and treat it as leachate. At no time

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shall any battery be stored directly on the ground. Batteries shall be removed from the site on a minimum quarterly basis and more frequent as needed.

#### **27. Waste Tire Processing Facility.**

- a. **Authorization.** This permit authorizes Trail Ridge Landfill to operate a waste tire processing facility on a parcel of land south of the non-contract drop off area and east of the operations building. Storage of waste tires and the operation of the waste tire processing facility shall be in accordance with FAC Rule 62-711.
- b. **Storage Limits.** The maximum number of whole waste tires the Permittee may store on site at any one time is 10,000 tires or approximately 100 tons. Each storage pile shall be no more than 10,000 square feet in area, 50 feet in width, and 15 feet in height. The limits of the waste tire storage area shall be appropriately marked to ensure that all waste tires are stored within these limits. Tires may only be stored on the paved impervious surface of the waste tire storage area. The facility shall also maintain the existing curb to contain, within the paved tire storage area, any potential liquid residue from a tire fire. Any liquid tire fire residual shall be managed in accordance with any applicable local, state or federal regulations. Additionally, a 50-ft. wide fire lane shall be maintained around the perimeters of each waste tire pile. Access to the fire lane for emergency vehicles must be unobstructed at all times.
- c. **Processed Waste Tires.** At least 75 percent of the waste tires and processed tires that are delivered to or are stored at the facility at the beginning of each calendar year shall be processed and disposed of on site or transported off-site to a permitted facility for recycling or disposal. The temperature of any aboveground piles of compacted, processed tires over 10 feet high shall be monitored and may not exceed 300 degrees Fahrenheit. Temperature control measures shall be instituted so that pile temperatures do not exceed 300 degrees Fahrenheit. Temperature monitoring and controls are not required for processed tires disposed of in the landfill. If waste tires will be disposed of at the landfill, the tire must be cut into at least 8 substantially equal pieces. Processed tires disposed of at the landfill, which does not meet the size requirement of FAC Rule 62-711.400(3)(a) for initial cover, must receive initial cover as defined in FAC Rule 62-701.200(59), which is once every week.
- d. **Annual Fire Safety Survey.** The Permittee shall submit, by December 31 of each year, an annual fire safety survey report for the waste tire processing facility.

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- e. **Waste Tire Processing Facility Quarterly Report.** The Permittee shall by the 20th of the month following the close of each calendar quarter, provide the information required pursuant to FAC Rule 62-711(530)(5) including completed DEP Form # 62-711.900(21).
  - f. **Additional Recording Requirements.** The Permittee shall record and maintain for three (3) years, the information required in FAC 62-711.530(4)(a thru c) and FAC 62-711.530(5)(a through g) and shall be made available to the Department upon request.
  - g. **Closing.** Facility shall follow the plan for closing waste tire storage area provided in Document 2, response item 67j, and shall also provide receipts from the facilities to where the waste tires and any residuals are sent to during closure. All tires and residuals shall be removed within 30 days of last waste receipt date, which shall be recorded in logs and the logs provided to the Department at its request.
28. **Waste Quantity Reports.** The facility shall record the amount, in tons, of waste received at the facility each day and shall also estimate and record the amount of the following types of waste received each day: residential, commercial, treated biomedical waste, water treatment sludge, agricultural, construction and demolition debris, waste tires, industrial, industrial sludge and domestic sludge and non-hazardous special waste. The waste reports shall be compiled monthly and shall be provided to the Department by April 15, July 15, October 15 and January 15 of each year of this permit.
29. **Litter and Dust Control.** The facility shall be inspected for litter on a daily basis. Any litter discovered outside the working face shall be collected and appropriately disposed of by the end of each workday. The facility shall control dust at the facility. A water truck shall be used to control dust. Either potable water or water from an onsite uncontaminated wet detention pond may be used in the effort. The water truck should not be used for any other material, i.e., leachate.
30. **Initial Cover Requirements.** Initial cover shall be applied at the end of each workday over the entire working face. Initial cover, consisting of suitable soil, shall be placed at a minimum depth of 6 inches after placement. For those areas where waste will be deposited within 18 hours, initial cover such as the following geotextile materials may be utilized as initial cover: Fabrene Type TG Product G168 and Nicholon Baycor Style 27600. However, these temporary covers shall not be utilized if obvious signs of deterioration of the materials are observed. Other equivalent geotextile materials may be utilized upon receiving a written authorization from the Department. For portions of the working face not completely covered by the tarpaulin, the 6-inch initial soil cover requirement shall be applied at the end of the working day. During periods when tarpaulin has



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been utilized at the working face from Monday through Saturday, the 6-inch soil cover requirement shall be applied before the close of business on Saturday.

Shredded waste tires that are shredded in accordance with FAC Rule 62-711.400(3)(a), i.e., 70 percent of the waste tire material is cut into pieces of 4 square inches or less and 100 percent of the waste tire material is 32 square inches or less, may be used at the working face on condition the material is restricted to the interior slopes. Shredded material may be stored on top of the landfill in the vicinity of the working face on interior slopes, prior to use. This permit does not authorize the storage or use of the material outside the lined footprint or on exterior sideslopes.

This permit does not authorize the use of ash residue or any other material not indicated in this condition for initial cover material. As an exception the Permittee may use contaminated soil as initial cover if it receives written approval to, per the following specific condition number 32.

31. **Cover and Intermediate Cover.** An intermediate cover, in addition to the six-inch initial cover, shall be applied and maintained within seven (7) days of cell completion if additional solid waste will not be disposed of within 180 days of cell completion. The Intermediate cover may consist of a soil/mulch mixture that consists of no more than 50% mulch. However, if it consist of the soil/mulch mixture it shall be a minimum of 16 inches thick and shall be removed prior to construction of the final cover system and shall be replaced with an intermediate cover consisting of a minimum of 12 inches of uncontaminated soil with no mulch. The intermediate cover shall be appropriately maintained to prevent erosion and waste exposure.
32. **Contaminated Soil and Slag for disposal or reuse.**
  - A. **Contaminated Soil for disposal or reuse, onsite storage and records.** The facility prior to utilizing any contaminated soil for disposal or reuse, i.e., initial cover, shall request this use of the Department in writing, provide analytics of the material from a Florida certified laboratory at a minimum, and obtain the Department's written approval. Only material that is demonstrated to be below the commercial/industrial exposure levels of FAC Chapter 62-777 or any other applicable level may be utilized at the facility as initial cover.

Contaminated soils which the facility receives the Department's written approval for use as initial cover, if stored on site prior to use, shall be stored in accordance with comment 14 of Document 3 and as amended by Document 4 and as modified by this permit.

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- The material shall be stored within the liner footprint on top of areas where intermediate cover is in place and within the phase areas as proposed in Document 3 and shall not be stored in a manner that will disrupt operations. More specifically, until operations are initiated in Phases VA & VB, the soil shall be stored on top of those phases in accordance with Attachment 6. When filling operations proceed into those phases, (Fill Phase 8 on Drawing sheet no 12 provided with Document 2) then the soil shall be stored on top of Phases IVC and VC until filling operations proceed in those phases, in accordance with said Attachment 6.
- The material shall be stored in a manner to prevent any runoff from the area to the surface water management system. Stockpiles shall be located at a minimum of 20 feet away from any side slope and silt fencing shall be installed around the base of the stockpile, except for access locations;
- Material for which the facility has not yet obtained the Department' approval for use shall be stored separate from that which has received approval. Signs shall be posted designating and differentiating the area of approved piles from that of unapproved piles.
- The Permittee may store unapproved material at the facility for a maximum of 60 days without obtaining approval. If the Permittee has not received approval within the 60 days, the material shall be removed for disposal/treatment at a facility authorized to dispose/treat it.
- Signs shall be placed at the stockpile area indicating the piles identification code as assigned to it in the record logs. Also signs shall be provided designating that the soil once approved, is to be used for initial cover on interior slopes only.

**Records.** The facility shall keep records on the material received. The Permittee shall establish and maintain an identification code system for identifying the contaminated soil received. This code shall be indicated in the record logs. Also in the logs, the source from where a contaminated soil is received, the amount received, and the receipt date shall be recorded. Furthermore, the Permittee shall record in the logs the amount used for cover and the location of the placement. These records shall be kept on site and made available to the Department at the Department's request.

- B. Slag reuse.** This permit does not authorize slag to be placed or used outside the liner limits with one exception: the slag approved in Attachment 7 (AmeriSteel Slag) may be used for stabilization of areas at the facility, such as parking lots, on condition the material is managed in

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accordance with Attachment 7. Other slag, if the slag is not hazardous waste, may be used for access road stabilization within the liner limits. The Facility shall record in logs the source from where slag is accepted and the location where slag from a specific source is used. Prior to utilizing slag from other sources at the facility outside the liner limits the Permittee shall pose the request in writing for a permit determination.

33. **Wet Weather Area.** The wet weather area shall be within the lined footprint disposal area and on an interior slope. The facility shall implement measures to prevent leachate from ponding within the waste area yet prevent it from running off. The area shall be graded to prevent leachate from the wet weather area from running off and potentially mixing with and entering into the surface water management system. Measures shall be implemented to also prevent runoff from surrounding areas from running onto the wet weather area. The wet weather area shall have either initial or intermediate cover the facility shall apply either initial cover or tarp approved by specific condition number 30 of this permit to the wet weather area at the end of the workday. Waste disposal activities shall cease during major storm events including but not limited to hurricanes.
34. **Inspections.** The Permittee shall inspect the active areas on a weekly basis and the closed areas at a minimum on a monthly basis, and both areas after major storm events. The leachate collections system and gas collection system shall be inspected at a minimum on a weekly basis. The inspector shall observe the facility for the items and conditions listed in the checklist provided in Attachment F, Document 4, at a minimum. Eroded areas shall be repaired to completion within 3 days of discovery of the erosion. Other insufficiencies shall be repaired to completion within seven days of discovery of the insufficiency except where other wise indicated by other specific condition to this permit.
35. **Gas Monitoring Probes.**
  - a. **Gas Monitoring Requirement.** The Permittee shall take measures to prevent explosions and fires, and to minimize off-site odors, lateral migration of gases and damage to vegetation. Compliance gas monitoring wells/probes (GP) GP-6, GP-7, GP-8, GP-9, and GP-10, and compliance gas monitoring locations, (GM), GM-01 through GM-05, reflected on Attachment 8 and any other onsite structures, shall be properly monitored on a quarterly basis throughout the duration of this permit unless the Department approves otherwise. Quarterly gas monitoring shall be conducted by March 31, June 30, September 30 and December 31 of each year of this permit. Combustible gas meters shall be calibrated to methane. The Permittee shall record these gas-monitoring results and shall submit a summary report to the Department within 15 days of the monitoring event. The routine gas-monitoring program shall monitor concentrations of combustible gases at ambient monitoring points and in gas monitoring wells. The concentration

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of combustible gases generated by the landfill shall not exceed 25% of the lower explosive limit (LEL) for combustible gases in structures on- or off-site, excluding gas control or recovery components. Additionally, the LEL for combustible gases shall not be exceeded at or beyond the landfill property boundary or in a compliance gas monitoring well/probe. The Permittee may be subject to more frequent monitoring based upon the Department's review of these data results. The wells' locations are depicted on Attachment 8.

- a. **Gas Remediation.** If, during a monitoring event, the results show that combustible gas concentrations exceed the lower explosive limit at the property boundary and/or at a compliance gas monitoring well/probe, i.e., GP-6 through GP-10, or if 25% of the LEL is exceeded within a structure or at a gas monitoring location, i.e., GM-01 through GM-05, the Permittee shall immediately take all necessary steps to ensure protection of human health and notify the Department, by telephone, of the violation within seventy-two (72) hours of the time that the violation is first discovered. Within seven (7) days of detection, the Permittee shall submit a report addressing the nature and extent of the problem. The report shall also include a proposed remedy for approval. The remedy shall be completed within sixty (60) days of detection unless otherwise approved by the Department.
  - c. **Odor Remediation Plan.** The facility shall be operated to control objectionable odors in accordance with Rule 62-296.320(2), FAC. If gas concentrations cause objectionable odors beyond the landfill property boundary, the Permittee shall implement a routine odor monitoring program to determine the timing and extent of any off-site odors; and if the monitoring program confirms the existence of objectionable odors, submit to the Department for approval an odor remediation plan for the gas releases. The plan shall describe the nature and extent of the problem and the proposed remedy. The remedy shall be initiated within 30 days of approval.
36. **Gas Monitoring Well Maintenance.** Gas monitoring probes (GP) 6 through 10 shall be maintained at the locations shown in Attachment 8 (found in Document 1, Appendix F). The integrity of the gas monitoring system shall be inspected, at a minimum, during the quarterly monitoring event. Should the well be found damaged, the Permittee shall repair or replace the damaged gas monitoring well(s) within sixty (60) days of discovery and shall repair it in accordance with the original design, "Permanent Gas Probe Detail," as reflected in Appendix H of Document 7 (formerly Document 1). Within thirty (30) days of completion of repair or replacement, the professional engineer or professional geologist in charge of installation, shall submit a gas monitoring well/probe construction completion report to the Department, which shall include boring logs.

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37. **Contingency Operations.** Prior to the imminent threat of a natural disaster (i.e., hurricane or tornado), flooding and fire, the following procedures (at a minimum) shall be implemented:
- a. Initial soil cover shall be applied and compacted to all expose solid waste;
  - b. All landfill equipment shall be fueled and parked near natural wind screens, earthen mounds or tree areas; and
  - c. All lightweight signs and equipment shall be secured.
  - d. In the event a hot load is received or a fire occurs at the facility, the Permittee shall follow the procedures addressed on page 30 of section VIII "Operation Plan" found in Document 1 as amended by comment 65 of Documents, 2, 3 and 4 to control and extinguish the fire. The facility shall extinguish a fire, either surface or subsurface that occurs at the facility, as soon as possible, using the proper techniques such as adding water and/or cutting off the oxygen supply. The area where a fire occurs, including a subsurface fire, shall be cordoned off. The local fire Department shall be contacted when needed. Fire hydrant(s) shall be maintained at the facility. The facility shall notify the Department of the fire as soon as possible and within 24 hours of discovery of the fire.

Additionally, the following actions shall be implemented in the event a fire occurs within the working face. The facility shall immediately cease disposal operations in the working face area until the fire is extinguished. The landfill operator or his designee shall direct all waste disposal operations to another operational area, (an area that has no intermediate or final cover) within the liner footprint and that is a safe distance from the fire. The temporary disposal area shall not be located in an area that may interfere or delay movement of fire fighting equipment. For a subsurface fire that occurs outside the working face the landfill operator or his/her designee shall cordon off the area and shall also assess and determine if the active working face shall be moved until the fire is extinguished. At no time shall the facility continue to accept waste in a burning area.

Additionally, the facility shall cease accepting waste in the event of a fire at the working face and shall not recommence waste acceptance activities until the fire is extinguished or the Permittee obtains authorization to, from the Department.

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Baldwin, Florida 32234

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### 38. Leachate Management.

- a. Leachate shall be managed in accordance with FAC Rule 62-701.500(8) and the applicable information submitted in the references listed in Specific Condition No. 1 and as amended by this permit.
- b. **Action Leachate Leakage Rate.** The Permittee shall monitor the amount of leachate collected at the facility. The level in and flow of leachate from both the leachate collection and detection sumps shall be monitored by means of a bubbler sensor and a manometer or other equivalent device at the control panel for each pump station. The amount of leachate pumped from each primary leachate collection system (PLCS) and each secondary leachate detection system (LDS) at each sump shall be measured by a flow meter located inside the vault box for each the PLCS and LDS as reflected on Drawing sheet number 18, Document 1. The quantity of leachate collected from the leachate collection and removal system (LCRS) and the leachate detection system (LDS), shall be recorded in gallons on a daily basis, Monday through Friday at a minimum. The action leachate leakage rate (ALLR) for the facility is 4,492 gallons per cell per day. If 4,492 gallons or more is detected in the secondary leachate collection/detection system (LDS) of a cell on any one day, the Permittee shall notify the Department of the situation within 24 hours by telephone and in a written report within 7 days of discovery of the exceedance. The report shall include a description and assessment of the situation, proposed remedial actions and a schedule for commencing and completing the remediation. A cell is defined as the area served by a pump station and is reflected on Drawing sheet number 7, provided with Document 4. The smallest cell is 17.7 acres.
- c. **Backflow prevention.** To aid in preventing back flow into the system, if the level in a sump exceeds 3.5 feet, (the sump is recessed 3.5 below the base of the landfill and is double lined) an audio and visual alarm shall sound at the control panel for the pump station. The Permittee shall remedy the situation if this level is exceeded and shall follow the procedures and provide the reports required for the exceedance of the ALLR.
- d. **Pump stations and flow meter maintenance.** The Permittee shall maintain the pump stations and their associated components, including the pumps, measuring and monitoring devices, and shall ensure that they are operational. At each pumping station, two pumps (one for the collection system and another for the detection system) shall be maintained. Pumps shall be operated in automatic mode and in a manner that will prevent leachate from collecting in a sump beyond its design level, backing up into the system, or discharging to the environment. If a pump is taken out of service or manually shut down, a replacement pump shall be provided in its place. The facility shall maintain the visual and audible alarms so that

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they will alert the facility in the event the allowable leachate level in a sump is exceeded. If alerted the facility shall provide a backup pump, record the flow of leachate, investigate the situation and implement remedial actions if warranted. The facility shall maintain at least one backup pump onsite and shall install it or other pump equivalent to the design pumps within the same day a pump is discovered to be insufficient and/or taken out of service for maintenance or repairs. Pump stations are located on the east side of the landfill and the system is designed so leachate will flow from west to east. There are 8 pump stations. The pump stations and the areas they serve are as follows:

Pump station 1A – Phases 1A and II A	Pump station 1B – Phases 1B and II B
Pump station 1C – Phases 1C and II C	Pump station IIIA – Phases III A and IVA
Pump station IIIB – Phases IIIB and IVB	Pump station IIIC – Phases IIIC and IV C
Pump station VA – Phases VA and VC	Pump station VB – Phases VC and VD

A backup pump shall be maintained on site to temporarily replace one in the event it is taken out of service for repairs, maintenance etc.

- e. **Leachate and Precipitation Comparison.** The Permittee shall maintain a recording rain gauge and shall compare the recorded precipitation rates to the leachate generation rates. Leachate generation reports shall be compiled monthly and submitted to the Department by January 15, April 15, July 15 and October 15 of each year. Leachate generation reports shall include the daily precipitation amounts, the quantities of leachate collected from the LCRS and LDS, and the amount of leachate transported to the wastewater treatment facility. The report shall include a breakdown of the amount of leachate that is collected from the LDS each day, and not only include the totalizing amount.
- f. **Leachate Treatment.** Leachate collected from the landfill shall be transported to the Buckman Wastewater Treatment Facility. The owner or operator shall obtain approval from the Department prior to disposing leachate to another wastewater treatment facility.
- g. The overflow prevention system and the exposed exterior of all leachate storage tanks shall be inspected weekly. If the inspection reveals a tank or equipment deficiency, leak, or any other deficiency that could result in failure of the tank to contain the leachate, remedial measures shall be taken immediately to correct the deficiency. Inspection reports shall be maintained and made available to the Department upon request for the lifetime of the liquid storage system.

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- h. Sludge or solids taken from the leachate storage tanks, whenever the storage tanks are drained for routine maintenance, inspections, or repair, shall have a hazardous waste determination performed for metals and organics in accordance with 40 CFR 262.11 and FAC Rule 62-730.160. The sludge and solids shall be disposed of in at a permitted facility, based on the results of the testing performed.
  - i. The Permittee shall perform routine maintenance of the leachate collection and removal system and all associated structures, to ensure proper operation of the system. The Permittee shall, in an appropriate manner, clean out the leachate collection system if and when obvious signs of obstruction(s) are exhibited.
  - j. The system shall be inspected by video recording at the time of permit renewal. The engineer of record shall review the video recording and shall provide a written evaluation of his/her review and a statement as to the sufficiency of the system. The evaluation shall be provided with the permit renewal application.
  - k. Leachate recirculation is not authorized under this permit.
39. **Leachate Monitoring.** Leachate shall be sampled prior to September 30 of each year of the permit, and the data submitted in conjunction with the October 15 report required in Specific Condition Number 48(I). A composite sample will be taken from the drain valve of each of the five (5) leachate collection system storage tanks (Tanks 1 thru 5) and one (1) sample shall be taken from the drain valve of the leachate detection system storage tank (Tank 6) and shall be analyzed for the following parameters:

#### Field Parameters

Specific conductivity  
pH  
Dissolved Oxygen  
Colors, sheens

#### Laboratory Parameters

Total ammonia - N  
Nitrate  
Bicarbonate  
Chlorides  
Iron  
Mercury  
Sodium  
Total Dissolved Solids (TDS)  
Those parameters listed in 40CFR  
Part 258, Appendix II



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Sampling and monitoring data shall be collected, analyzed, reported and retained in accordance with Chapter 62-160, F.A.C. and FAC Rule 62-522.600. Any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health (DOH) under Chapter 64E-1, F.A.C., where such certification is required by Rule 62-160.300, F.A.C. The laboratory must be certified for all specific method/analyte combinations that are used to comply with this permit. Biological evaluations shall follow the applicable procedures in DEP-SOP-002/01 (January 2002). All field activities including on-site tests and sample collection, whether performed by a laboratory or another organization, must follow all applicable procedures described in DEP-SOP-001/01 (January 2002). Alternate field procedures and laboratory methods may be used if they have been approved according to the requirements of Rules 62-160.220 and 62-160.330, F.A.C.

Detection levels shall be at or below groundwater standards and/or criteria. Leachate sampling results shall be reported on the attached Groundwater Monitoring Report Form [DEP Form 62-522.900(2)](Attachment 5).

In addition to the information required on the Groundwater Monitoring Report Form and the requirements of FAC Rule 62-701.510(9)(a), the following shall be generated:

1. The laboratory report shall indicate the analytical method, the detection limit and the dilution factor used on each data.
2. The report shall show in columnar form the analysis results and, where applicable, the corresponding Florida Groundwater Standards and/or criteria.
3. All peaks greater than the EPA specified detection limit for the analytical method shall be identified.

Test results shall be submitted to the Department as part of the semi-annual ground and surface water monitoring reports.

Concerning leachate sampling and analysis, if a contaminant listed in 40 CFR 261.24 exceeds the regulatory level listed therein, the Permittee shall follow the procedures addressed in FAC Rule 62-701.510(6)(c) 2, which includes notifying the Department of the results in writing and conducting monthly sampling and analysis, commencing within 30 days of the date of the sampling event in which the exceedance is first detected. The Permittee shall provide the Department with the monthly analysis. Should the composite sample taken from the five (5)

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leachate collection storage tanks be determined hazardous, leachate stored in all five (5) tanks shall then be treated as hazardous, unless it is determined through additional leachate sampling and testing, that a tank or tanks do not contain the hazardous leachate. Leachate that is determined hazardous shall be managed in accordance with FAC 62-730. The written notification required per said rule shall be provided as soon as possible and shall indicate how the leachate was managed.

Please note that this permit does not authorize on-site treatment or pretreatment of leachate.

40. **Power generators.** For power outages that extend for a period of 24 hours or more, the facility shall, unless on-site generators are available, obtain emergency generators within 48 hours of the time the power outage first occurs. In the interim and for shorter power outages, onsite equipment may be utilized to power the leachate sump pumps.
41. **Closure Phasing Plan and Final Cover Application.**
  - a. **Closure Phasing Plan.** The Permittee shall close the facility in phases as areas are filled (areas shall be filled in accordance with the "Fill Phasing Plan," reflected on drawing sheet numbers 11, 12, and 13) in accordance with the "Closure Phasing Plan," reflected on Drawing Sheet Numbers 14 and 15 of Document 2. Within 180 days of attaining the elevations reflected on the said drawing sheet numbers 14 and 15, i.e., approximately 210 feet NGVD for Closure Phase 3 and 4; 270 feet NGVD for Closure Phase 5; 330 feet NGVD for Closure Phase 6 and 7, and 345 feet for the final closure phase area, Closure Phase 8, the Permittee shall construct to completion closure for the respective areas reflected on the said drawing sheets as the closure limits. Closure shall include at a minimum, grading the closure limit areas, installing the final cover system over them, including establishing vegetation, providing the reflected terraces and downcomer pipes and gas wells. The Permittee shall record when the said design elevations are reached. The gas collection wells reflected on the said drawing sheets shall be constructed in accordance with specific condition number 14. The Permittee shall periodically determine the waste elevations pursuant to specific condition number 19.

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- b. **Final cover system design.** Terraces, downcomer pipes, and the final cover system shall be constructed in accordance with the details provided on drawing sheet number 21, Document 2. The final cover system for the side slopes shall consist of the following from bottom to top: a minimum 1 foot thick intermediate cover layer consisting of only uncontaminated soil material, a minimum 12 inch thick clay layer (after installation) that has a maximum permeability of  $6.67 \times 10^{-8}$  cm/sec, a minimum 2 foot thick top soil layer with the top 6 inches capable of sustaining vegetation and the vegetative cover proposed in your application. Terraces with underdrains shall be constructed at the elevations reflected on Drawing sheet number 15 and in accordance with the detail provided on drawing sheet number 21, Document 2. Downcomers shall also be provided as reflected in said drawing sheets. The final cover system for the top slope shall consist of the following from bottom to top: 1 foot minimum thick intermediate cover layer consisting of only uncontaminated soil material, minimum 40 mil geomembrane, minimum 1 foot minimum thick sand layer, permeability of  $1 \times 10^{-3}$  cm/sec or greater, and 1 foot minimum thick top soil layer with the top 6 inches being capable of supporting vegetation. All earthen materials shall be uncontaminated. Additionally, the soil/mulch mixture used on exterior side slopes or top slopes and addressed in specific condition 31 shall be removed prior to placement of the final cover system.
- c. **Interface friction angles.** The Permittee shall test the interface friction angles of the material that will be installed in the final cover system. The materials shall provide interface friction angles pursuant to Response 51 and Attachment D, of Document 4.
- d. **Closure construction Quality Assurance.** The Permittee shall provide quality assurance to each of the phased closure projects. In constructing the side slopes the Permittee shall implement the procedures and conduct the testing proposed in the "Quality Assurance/Quality Control Plan for Side Slope Closure," provided in Attachment D of Document 4. In constructing the top slopes, the Permittee shall implement the procedures and conduct the testing proposed in the "Quality Assurance/Quality Control Plan for Top Slopes," provided in Appendix K of Document 1. Quality assurance shall be provided by a qualified party independent of the contractor. The QA individual shall be experienced in landfill construction.
- e. **Certification of Closure Construction Completion.** The Permittee shall provide a certification of closure construction completion to the Department within 30 days after completing each closure phase, as reflected on Drawings Sheets 14 and 15, provided with Document 2, Closure Phase 3 through Closure Phase 8. The certification shall be prepared, signed and sealed by a Professional Engineer registered in the state of Florida. Record Drawings and a final survey report done by a professional surveyor, in accordance with Rule 62-701.610(3), FAC, shall be provided for each incremental closure as well as the final closure.

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The items required in this specific condition number at a minimum, shall be reflected on the drawings accordingly. Also, documentation shall be provided demonstrating that the items requested in this specific condition have been provided. A final certification shall be provided within 30 days of completing closure of the facility as reflected on Drawing Sheet 15, document 2, Closure Phase 8. Included with the report shall be a signed and sealed survey, record drawings and depth checks. The official long-term period will not begin until the final certification of the entire permitted facility is received and approved by the Department and the other requirements of FAC Rule 62-701.610 are met.

**42. Non-authorized.** This permit does not authorize the following:

- a. This permit does not authorize leachate recirculation.
- b. This permit does not authorize the reuse of any materials other than as indicated by specific condition numbers 31 and 32.
- c. This permit does not authorize the use of processed waste tires for initial cover.

**43. Stormwater Management System.** The operation and maintenance of the stormwater management system shall be as set forth in the plans, specifications, and performance criteria contained in the Department file and approved by this permit.

**A. Operational Maintenance.** The following operational maintenance activities shall be performed on all permitted systems on a regular basis or as needed:

- (1) Removal of trash and debris
- (2) Inspection of inlets and outlets
- (3) Removal of sediments when the storage volume or conveyance capacity of the system is below design level or when the system is rendered ineffective on account of clogging/sedimentation of the pond bottoms.
- (4) Stabilization and restoration of eroded areas.
- (5) Mowing and removal of grass clippings.
- (6) Aeration, tilling or replacement of topsoil as needed to restore percolation capability of the system.

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- B. Inspections.** The Permittee is required to provide for periodic inspections of the stormwater management system. The stormwater management system shall be inspected after each heavy rain, but a minimum, once per quarter. The Permittee shall submit reports to the Department certifying that the stormwater management system is operating as designed. The reports shall be submitted to the Department as follows:
1. Inspection reports for retention, underdrain, wet detention (with/without littoral shelf), swales and pumped systems shall be submitted one year after the completion of construction and every year thereafter. A registered Florida Professional Engineer must sign and seal the report certifying the system is functioning as designed.
  2. The reports shall be submitted to the Department's Stormwater Engineer at 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7590.
- C.** If the stormwater management system is not functioning as designed and permitted, operational maintenance must be performed immediately to restore the system. If operational maintenance measures are insufficient to enable the system to meet the design standards, the Permittee must either replace the system or construct an alternative design. In such a case, the Permittee must submit a permit modification application within sixty (60) days of the date the system was determined to be design deficient.
- D. Best Management Practices.** The Permittee is responsible for the selection, implementation, and operation of all erosion and sediment controls on-site and to prevent violations of water quality standards in Chapters 62-302 and 62-4, 40C-4, 40C-40, 40C-41, 40C-42, F.A.C., and Chapters 373 and 403, F.S. The Permittee is encouraged to use the appropriate Best Management Practices described in the Florida Land Development Manual: A guide to Sound Land and Water Management (DER, 1988). All wetland areas or water bodies which are outside of the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring, or excess turbidity and dewatering. Turbidity barriers shall be installed at all locations where the possibility of transferring suspended solids into the receiving water body exists due to the proposed work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. The Permittee shall be responsible for the removal of the barriers.

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### **44. Irrigation System for Wetlands.**

A. **Operate and Maintain.** The Permittee shall continue to maintain and operate the irrigation system (reflected in Figures 3 and 4 of Appendix E of Document 1) for wetlands adjacent to the pond berm that was installed to mitigate any potential effects to the natural hydroperiod of the adjacent wetland as a result of hydrologic draw down caused by the stormwater pond. The irrigation system extends along the southern and eastern most edges of the pond berm and along a portion of the northern edge of the pond berm and is reflected in Attachment 9 (Figure 3 of Document 1).

B. **Erosion control.** The Permittee shall take all appropriate measures to insure that the wetland stormwater discharge system does not cause erosion into any wetland area during construction and operation.

45. A landfill for which construction or modification is subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, FAC must make application to the Bureau of Air Regulation, Mail Station 5505, 2600 Blair Stone Road, Tallahassee, Florida, 32399-2400, for an air construction permit and must obtain such permit prior to beginning any construction or modification.
46. If the landfill is required to obtain a Title V air operating permit (Title V permit) pursuant to Sec 403.0872, F.S., the landfill owner or operator will be required to obtain an air operating permit. A landfill is required to obtain a Title V permit if the landfill (or the total facility, if the landfill is collocated or part of a larger facility) has the potential to emit 10 TPY of any hazardous air pollutant, 25 TPY of any combination of hazardous air pollutants or 100 TPY of any other regulated air pollutant. A landfill is also required to obtain a Title V permit if the maximum design capacity, as defined at 40 CFR 60, Subpart WWW, is equal or greater than 2.5 million Megagrams or 2.5 million cubic meters. Title V permits must be applied for in accordance with the timing and content requirements of Rule 62-204.800, FAC and Chapter 62-213, FAC Title V applications shall be submitted to the District Air Program Administrator or County Air Program Administrator with air permitting authority for the landfill location.

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47. The Permittee shall comply with the requirements of 40 CFR 60, Subparts WWW and Cc, as adopted by reference at Rule 62-204.800, FAC The Permittee shall submit to the Division of Air Resources Management, Department of Environmental Protection, Mail Station 5500, 2600 Blair Stone Road, Tallahassee, Florida, 32399-2400, any amended design capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 60.757(a)(3) and (b).
48. **Groundwater Monitoring Requirements.** In accordance with FAC Chapters 62-701 and 62-522, the Permittee shall install, place into operation, and maintain a water quality monitoring system.
- a. The groundwater monitoring system shall be designed, constructed, operated and maintained in accordance with FAC Chapters 62-3, 62-520 and 62-522 and with the Groundwater Monitoring Plan with Additional Responses, as modified by the conditions specified in this permit.
  - b. Pursuant to FAC Rule 62-522.410, the zone of discharge shall be limited horizontally to 100 feet from the waste management area; or to the property boundary; or to the shortest distance between the location of the compliance monitoring wells and the waste management area; whichever is less. This zone of discharge shall remain in effect unless it becomes necessary to seek a change in accordance with FAC Rule 62-522.410.
  - c. The Permittee shall ensure that the water quality standards for Class G-II ground water will not be exceeded at the boundary of the zone of discharge pursuant to FAC Rule 62-522.410.
  - d. The Permittee shall ensure that the minimum criteria for ground water specified in FAC Rule 62-520.400 shall not be violated within the zone of discharge.
  - e. Approximate monitoring well locations and designations shall be in accordance with Attachment 1. In conjunction with the construction of any new wells, a surveyed drawing shall be submitted showing the location of all monitoring wells (active and abandoned) that will be horizontally located by metes and bounds or equivalent surveying techniques. The surveyed drawing shall include the monitor well identification number as well as location and elevation of all permanent benchmark(s) and/or corner monument markers(s) at the site. The survey shall be conducted by a Florida Registered Surveyor. All wells are to be clearly labeled and easily visible at all times. In accordance with FAC Rule 62-701, monitor wells designed to monitor phases III C, IV C, VA, VB, VC, VD shall be designated detection wells and be placed no greater than 50 feet from the limits of the waste. Monitoring of all active cells shall be by wells located within 50 feet of waste or as close to that point as physically practicable.

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Compliance wells MWB-14(S)c, (I)c, (D)c; MWB-23(S)c; MWB-24(S)c; MWB-25(S)c, (I)c, (D)c; and MWB-26(S)c shall be maintained, but will not be utilized unless required for assessment monitoring.

Background Well Clusters:            MWB-2(S)b, 2(I)b  
   MWB-3(S)b, 3(I)b  
   MWB-31(D)b

#### Phase I

Compliance Well Clusters:            MWB-7(S)c, 7(1)c, 7(D)c  
   MWB-11(S)c, 11(1)(R)c  
   MWB-12(S)c, 12(1)c, 12(D)c  
   \* MWB-14(S)c, 14(I)c, 14(D)c  
   MWB-19(S)c, 19(I)c, 19(D)c  
   MWB-20(S)c  
   MWB-21(S)c  
   MWB-22(S)c

#### Phase II

Compliance Well Clusters:            MWB-17(S)c, 17(I)c, 17(D)c

#### Phase III and Phase IV

Compliance Well Clusters:            MWB-13(S)c, 13(I)c  
   \* MWB-23(S)c

Detection Well Clusters:              MWB-33(S)d  
   MWB-34(S)d, 34(I)d, 34(D)d

#### Phase V

Compliance Well Clusters:            \* MWB-24(S)c  
   \* MWB-25(S)c, 25(I)c, 25(D)c  
   \* MWB-26(S)c  
   MWB-27(S)c, 27(I)c, 27(D)c  
   MWB-29(S)c, 29(I)c, 29(D)c



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Detection Well Clusters: MWB-32(S)d, 32(I)d, 32(D)d

\* Indicates compliance monitoring well or well cluster replaced by detection wells. No longer on regular sampling schedule, but to be maintained for potential future sampling (if needed).

- f. All groundwater monitoring wells shall be designated and constructed in accordance with FAC Chapter 62-522 and ASTM Standard D-5092. All shallow surficial monitoring wells shall be constructed such that a portion of the screened interval shall extend into the vadose zone during all portions of the year and the screened interval shall be of sufficient length that a minimum of approximately five feet of screen shall extend into the water column throughout the year. Upon completion of construction of any new groundwater monitoring wells, the following information shall be submitted to the Department within fifteen (15) days for all groundwater monitoring wells (permanent and temporary):

Well identification	Driller's Lithologic Log
Latitude/Longitude	Total well depth
Aquifer monitored	Casing diameter
Screen type and slot size	Casing type and length
Elevation at land surface	Depth to groundwater

A well completion report will be provided for all wells. A surveyed drawing shall be submitted showing the location of all monitoring wells (active and abandoned) that will be horizontally located by metes and bounds or equivalent surveying techniques. The surveyed drawing shall include the monitor well identification number as well as location and elevation of all permanent bench mark(s) and/or corner monument marker(s) at the site. The survey shall be conducted by a Florida Registered Surveyor. Well construction at and above ground surface shall be designed to secure and protect the groundwater monitoring wells.

At each well location, construction shall include a concrete surface pad and above ground vertical protective casing with a locking top. The casing and top shall be required to be in good working order, intact and locked. A minimum of two protective bollards shall be placed at the edges of concrete surface pad. Bollards shall be at a minimum of the approximate height of the protective casing and constructed of materials capable of providing some protection of the protective casing from accidental collision with machinery.

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- g. In the event any monitoring well becomes damaged or inoperable, the Permittee shall notify the Department within seventy-two (72) hours and a detailed written report shall follow within seven (7) days. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent a recurrence. All monitoring well design and replacement shall be approved by the Department prior to installation.
- h. Within sixty (60) days of issuance of this permit, all piezometers and wells not a part of the approved groundwater monitoring plan are to be plugged and abandoned in accordance with FAC Rule 17-21.10(4) and St. Johns River Water Management District Rule 40C3.531. The Permittee shall submit a written report to the Department providing verification of the well plugging and abandonment. A written request for exemption to the plugging and abandonment of a well must be submitted to the Department for approval.
- i. Groundwater levels shall be recorded no less than forty-eight (48) hours after well installation and prior to evacuating the well for sample collection. Measurements, referenced to National Geodetic Vertical Datum ( N.G.V.D.), shall include groundwater surface elevation, the top of well casing, and land surface at each site at a precision of plus or minus 0.01 feet. This information shall be submitted to the Department with the semi-annual groundwater analytical results. A map must be constructed depicting locations of wells and piezometers and corresponding water level measurements.
- j. All sample collection and water quality analysis shall be in conformance with FAC Chapter 62-160 and FAC 62-522.600. Sampling and monitoring data shall be collected, analyzed, reported and retained in accordance with Chapter 62-160, F.A.C.

Any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health (DOH) under Chapter 64E-1, F.A.C., where such certification is required by Rule 62-160.300, F.A.C. The laboratory must be certified for all specific method/analyte combinations that are used to comply with this permit.

Biological evaluations shall follow the applicable procedures in DEP-SOP-002/01 (January 2002).

All field activities including on-site tests and sample collection, whether performed by a laboratory or another organization, must follow all applicable procedures described in DEP-SOP-001/01 (January 2002). Alternate field procedures and laboratory methods may be used if they have been approved according to the requirements of Rules 62-160.220 and 62-160.330, F.A.C.

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007

#### **SPECIFIC CONDITIONS:**

- k. Groundwater sampling results shall be reported on the attached Parameter Monitoring Report Form [DEP Form 62-522.900(2)] (Attachment 5). In order to facilitate entry of this data into the state computer systems, these forms or an exact replica must be used and must not be altered as to content. The original forms shall be retained so that the necessary information is available to properly complete future reports. The report forms received from the laboratory must be submitted along with the DEP Parameter Monitoring Report Forms described above. Analytical results shall be accompanied by a brief narrative summary. The results shall be sent to the Department of Environmental Protection, Northeast District, 7825 Baymeadows Way, Suite 200-B, Jacksonville, Florida 32256-7590.

In addition to the information provided on the Parameter Monitoring Report Form, the following shall be generated:

1. The laboratory report shall indicate the analytical method, the detection limit, the practical quantification limit and the dilution factor used on each data sheet.
2. The report shall show in columnar form the analysis results and, where applicable, the corresponding Florida Groundwater Standards and/or criteria.
3. All peaks greater than the EPA specified detection limit for the analytical method shall be identified.

The Permittee shall submit to the Department a minimum of two complete reports and, upon request by the Department, as many additional reports as the Department deems necessary.

1. All groundwater background detection monitoring wells and active compliance monitoring wells shall be sampled and analyzed semi-annually for the parameters listed in Attachment 3. However, additional samples, wells, and parameters may be required based upon subsequent analyses. Semi-annual samples will be collected for all wells for each phase of monitoring prior to March 30 and September 30 of each year. A report of laboratory data will be submitted to the Department for each sampling period no later than April 15 and October 15 of each year respectively.
- m. Sixty (60) days prior to the renewal of this permit, the Permittee shall sample and analyze all monitoring wells for the parameters listed on Attachment 2. This sampling shall be in lieu of the corresponding semi-annual sampling event.

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007

**SPECIFIC CONDITIONS:**

- n. The Permittee shall prepare and submit to the Department groundwater surface contour maps, prepared from data collected from all permitted wells on site, for the initial sampling event and each semi-annual sampling event. A shallow surficial map, utilizing data from the shallow wells; an intermediate surficial map, utilizing the data from the intermediate wells; and a deep surficial map, utilizing data from the deep wells will be prepared and submitted to the Department, with the groundwater elevation data. This information shall be submitted in conjunction with the initial and semi-annual analytical data.
- o. If, at any time, groundwater standards and/or criteria are exceeded, or if parameter concentrations in detection wells are significantly above unaffected background water quality, the Permittee shall notify the Department within fourteen (14) days of discovery and resample the monitor well(s) to verify the contamination analysis within thirty (30) days from the date the Permittee received the results. The Permittee shall submit to the Department the results of the resampled groundwater monitoring well water quality analysis and the original analysis no later than the thirty (30) days following resampling.

Should the Permittee choose not to resample, the Department will consider the water quality analysis that exceeded the standards and/or criteria, or that significantly exceeded background water quality, as representative of current groundwater conditions at the facility.

If the groundwater standards and/or criteria are exceeded in a detection well or if parameters in a detection well are significantly above unaffected background water quality, the Permittee shall implement the Evaluation Monitoring and Corrective Action requirements of FAC Rule 62-701.510.

If the groundwater standards and/or criteria are exceeded in a compliance well or if parameters in a compliance well are significantly above unaffected background water quality, the Permittee shall initiate and implement corrective action in accordance with FAC Rule 62-701.510(7)(b)2 and current Department rules or guidance within sixty days.

- p. Compliance with groundwater standards and/or criteria shall be determined by analysis of unfiltered or settled groundwater samples.

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007

**SPECIFIC CONDITIONS:**

- q. FAC Rule 62-522.600(3)(k) requires that the groundwater monitoring program must inventory and map surface waters within one mile of the landfill. If there are any modifications to the surface waters within one mile of the landfill, the Permittee shall, upon request, submit to the Department a revised inventory and map of surface waters within ninety (90) days.
  - r. FAC Rule 62-522.600(3)(g) requires an inventory and map of all wells within a one (1) mile radius of the landfill, including the owners' names and addresses, well locations, well specifications (well depth, diameter, screened interval, capacity, etc.) and utilization. If there are any changes to the well inventory, the Permittee shall, upon request, revise the well inventory and shall submit the revised inventory to the Department within ninety days.
  - s. The Permittee shall monitor the data obtained from the leachate, ground, and surface water monitoring system, and the site-specific conditions. A report shall be submitted every two (2) years to the Department by the Permittee in accordance with FAC Chapter 62-701. In addition, it shall include a graphic plot of analytical laboratory data over time for the leachate and surface water sampling parameters. Evaluation of the adequacy of the monitoring frequency and analyses shall include the surface water and leachate monitoring programs. The Permittee shall have this report prepared and sealed by a qualified groundwater professional and submit this information by September 30, 2005 and September 30, 2007.
49. In accordance with F.A.C. Rule 62-701.510(6), surface water monitoring is required on a semi-annual basis in conjunction with the groundwater monitoring schedule. The following Surface Water Monitoring Program shall be implemented within ninety (90) days of the issuance of this permit.
- a. The Surface Water Monitoring System shall be designed and operated in accordance with plans submitted to the Department, as modified by the conditions specified in this permit.
  - b. The surface water monitoring sites shall be located as follows:

SITE NUMBER	LOCATION
SW-1	As indicated in Attachment 1
SW-2	As indicated in Attachment 1

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007

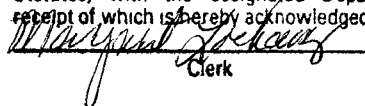
**SPECIFIC CONDITIONS:**

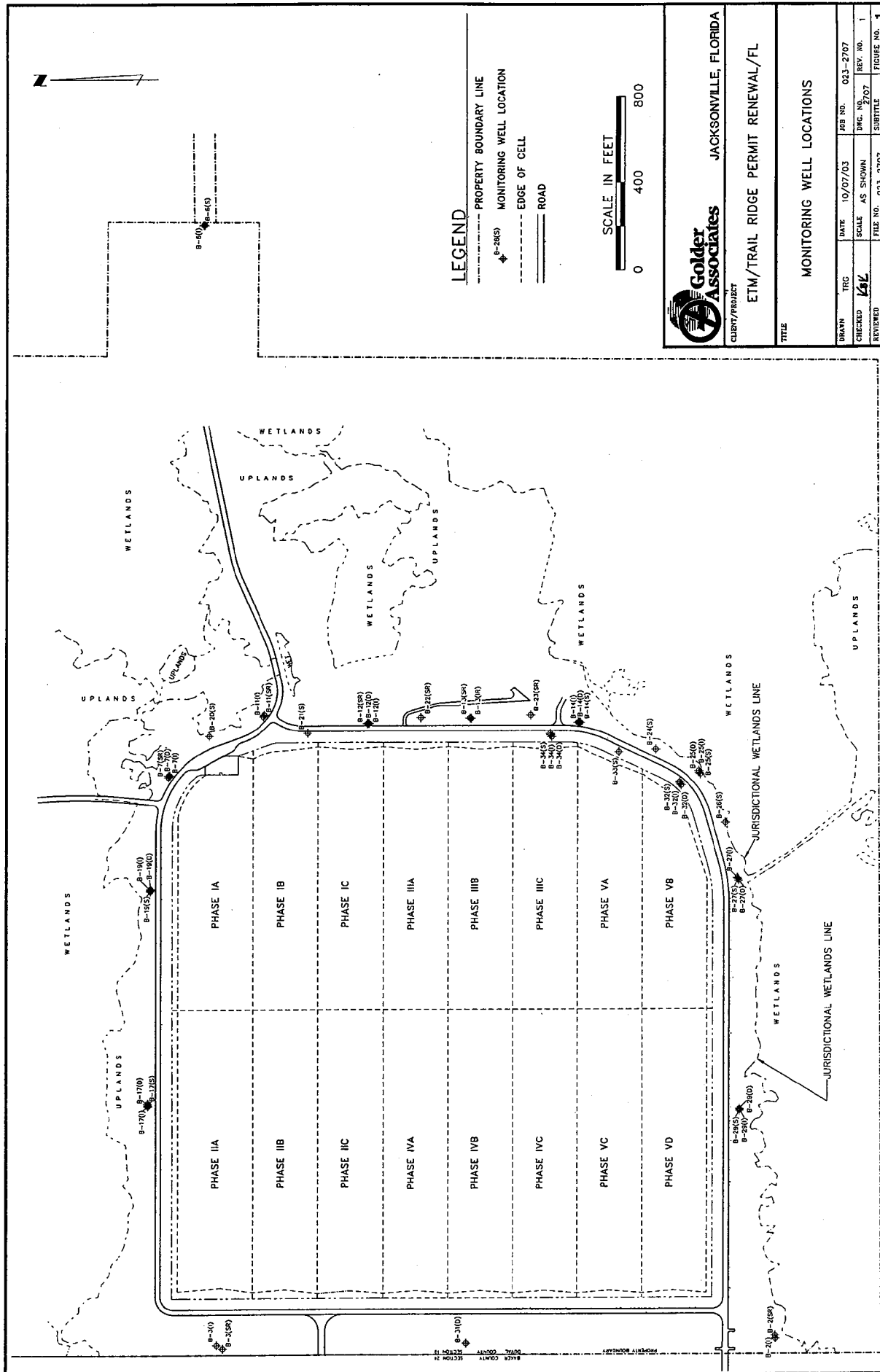
- c. All surface water sampling sites shall be sampled and analyzed on a semi-annual basis for the parameters listed in Attachment 4. However, additional sampling sites and parameters may be required based upon subsequent analyses. The results shall be reported in accordance with Specific Condition Number 41(l) and submitted with the groundwater monitoring reports.
50. Within 60 days of the permit issuance date, the Permittee shall compile a revised operations plan including a revised contingency operations plan. The revised plan shall reflect the modifications to the plan contained in Document 1 as revised by the responses provided in Documents 2 through 6. For example, the Permittee shall amend section VIII, U, of the "Operation Plan" found on page 30 of Document 1 to incorporate the revisions proposed in comment 65 of Documents, 2, 3 and 4, accordingly. Copies of the revised plan shall be provided to the facility operator within 60 days of the permit issuance date, and to the Department at its request.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Michael J. Fitzsimmons  
Waste Program Administrator

**FILING AND ACKNOWLEDGEMENT**  
FILED, on this date, pursuant to S120.52 Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.  
 12-19-03  
Clerk Date



ATTACHMENT 1

## BACKGROUND PARAMETERS

### Field Parameters

Static water level in wells  
Specific conductivity  
pH  
Dissolved oxygen  
Turbidity  
Temperature  
Colors and sheens (by observation)

### Laboratory Parameters

Total ammonia - N  
Chlorides  
Iron  
Mercury  
Nitrate  
Sodium  
Total Dissolved Solids  
(TDS)  
Those parameters listed in  
40 CFR Part 258 Appendices  
I and II



## SEMI-ANNUAL PARAMETERS

### Field Parameters

Static water level in wells  
Specific conductivity  
pH  
Dissolved oxygen  
Turbidity  
Temperature  
Colors and sheens (by observation)

### Laboratory Parameters

Total ammonia - N  
Chlorides  
Iron  
Mercury  
Nitrate  
Sodium  
Total Dissolved Solids  
(TDS)  
Those parameters listed in  
40 CFR Part 258 Appendix I

## SURFACE WATER PARAMETERS

### Field Parameters

Specific conductivity  
pH  
Dissolved oxygen  
Turbidity  
Temperature  
Colors and sheens (by observation)

### Laboratory Parameters

Unionized ammonia N  
Total hardness  
Biochemical oxygen  
demand (BOD5)  
Copper  
Iron  
Mercury  
Nitrate  
Zinc  
Total dissolved solids  
(TDS)  
Total organic carbon  
(TOC)  
Fecal Coliform  
Total phosphates  
Chlorophyll A  
Total Nitrogen  
Chemical oxygen demand  
(COD)  
Total suspended solids  
(TSS)  
Those parameters listed in  
40 CFR Part 258 Appendix I

# Florida Department of Environmental Protection

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

DEP Form # 62-522.900(21)

Form Title GROUND WATER MONITORING  
REPORT

Effective Date 04/14/94

DEP Application No. \_\_\_\_\_

## GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

### PART I GENERAL INFORMATION

- 1) Facility Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ Zip \_\_\_\_\_  
Telephone Number ( ) \_\_\_\_\_
- 2) The GMS Identification Number \_\_\_\_\_
- 3) DEP Permit Number \_\_\_\_\_
- 4) Authorized Representative Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ Zip \_\_\_\_\_  
Telephone Number ( ) \_\_\_\_\_
- 5) Type of Discharge \_\_\_\_\_
- 6) Method of Discharge \_\_\_\_\_

### Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date: \_\_\_\_\_  
Signature of Owner or Authorized Representative

### PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # \_\_\_\_\_

Analytical Lab Comp QAP #/HRS Certification # \_\_\_\_\_

\*Comp QAP #/HRS Certification # \_\_\_\_\_

Lab Name \_\_\_\_\_

Address \_\_\_\_\_

Phone Number ( ) \_\_\_\_\_

Page 1 of 2

### PART III ANALYTICAL RESULTS

ATTACHMENT 5

DEP003071

Facility GMS #:

**Sampling Date/Time:**

Test Site ID #:

**Report Period:**

- (year/quarter)

Well Name:

Well Purged (Y/N):

### Classification of Ground Water:

Well Type: (

## ) Background

**Ground Water Elevation (NGVD):**

## .) Compliance

or (MSL):

11/0008.12 0.13 0.07

) Other

## Storet

### Parameter

## Sampling

Field

## Analysis

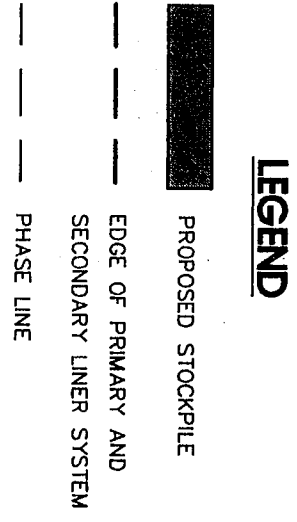
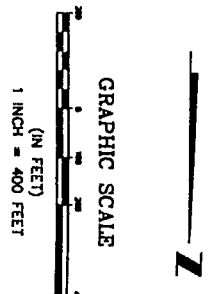
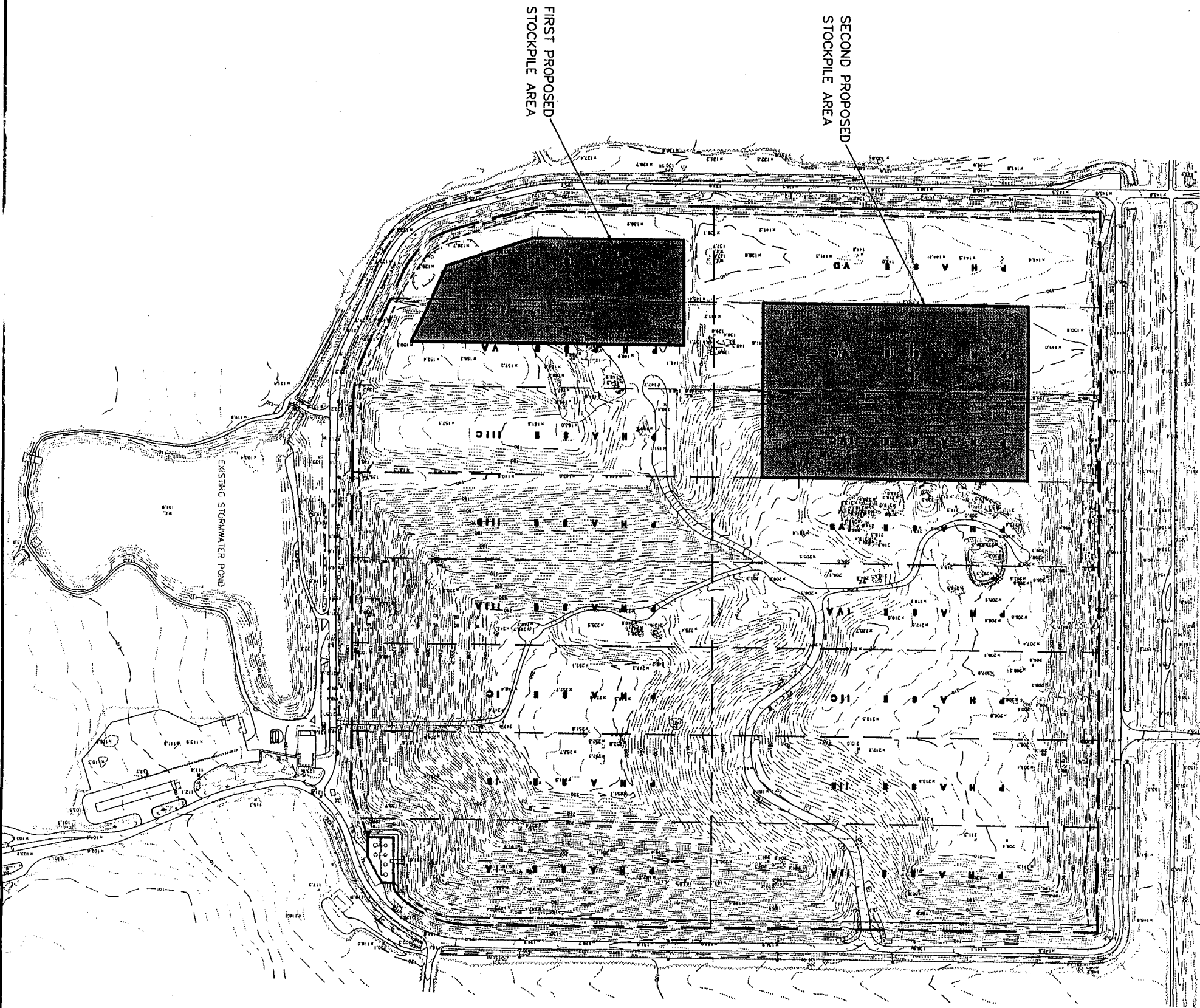
### Analysis

### \* Analysis

## Detection

[illegible]

\* Attach Laboratory Reports



**NOTES:**

1. TOPOGRAPHIC INFORMATION SHOWN HEREON TAKEN FROM AERIAL TOPOGRAPHY PREPARED BY AIR SURVEY CORP.; MAP DATED 3-15-02. AIR SURVEY CORP. PROJECT NO. 71020260.
2. VERTICAL DATUM BASED ON NGVD 1929.

 <b>England-Thimly &amp; Miller, Inc.</b> ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS 14775 ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32208 CERTIFICATE OF AUTHORIZATION NUMBER: 8584 PHONE NUMBER (904) 642-8900 FAX NUMBER (904) 646-9485	<b>PROPOSED STOCKPILE PLAN</b>		ETM NO. 02-025	REVISIONS:
	TRAIL RIDGE LANDFILL PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.		DRAWN BY: S.J.L.	
			DESIGNED BY: J.B.C.	
			CHECKED BY: J.B.C.	
			DATE: SEPTEMBER 25, 2002	



# Department of Environmental Protection

Lawton Chiles  
Governor

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

Virginia B. Wetherell  
Secretary

May 17, 1996

Mr. Robert E. Hice  
Environmental Coordinator  
Ameristeel  
Jacksonville Steel Mill Division  
Post Office Box 518  
Baldwin, Florida 32234

Dear Mr. Hice:

Ameristeel Slag Disposal  
Duval County - Solid Waste

The Department has reviewed your May 16 submittal of the results of the slag column leaching test designed to demonstrate whether or not your mill's processed slag meets the requirements of Section 403.7045(1)(g)(2), Florida Statutes.

These results, in combination with previous results and your confirmation that slag that is collected during furnace maintenance or Melt Shop clean-up or might otherwise be contaminated will continue to be transported to a properly permitted TSDF, provide adequate assurance for the Department to reach the determination that your processed slag may be considered an industrial byproduct under Florida Statutes, and therefore not regulated as solid waste, provided that:

a majority of the processed slag is demonstrated to be sold, used, or reused within one year;

the slag is not utilized in such a manner that it is placed in the environment in a greater than six-foot thickness; and

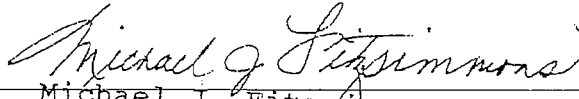
neither the slag nor your processing operation is found to be a source of pollution.

Thank you very much for your cooperation in this matter. The Department appreciates the responsible and professional manner in which you approached this issue. If you have any questions

Mr. Robert E. Hice  
May 17, 1996  
Page two

concerning the Department's determination, please do not hesitate to  
contact me at (904)448-4320, extension 355.

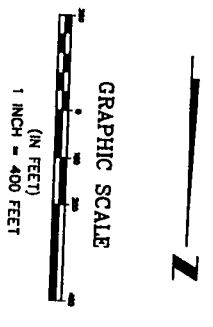
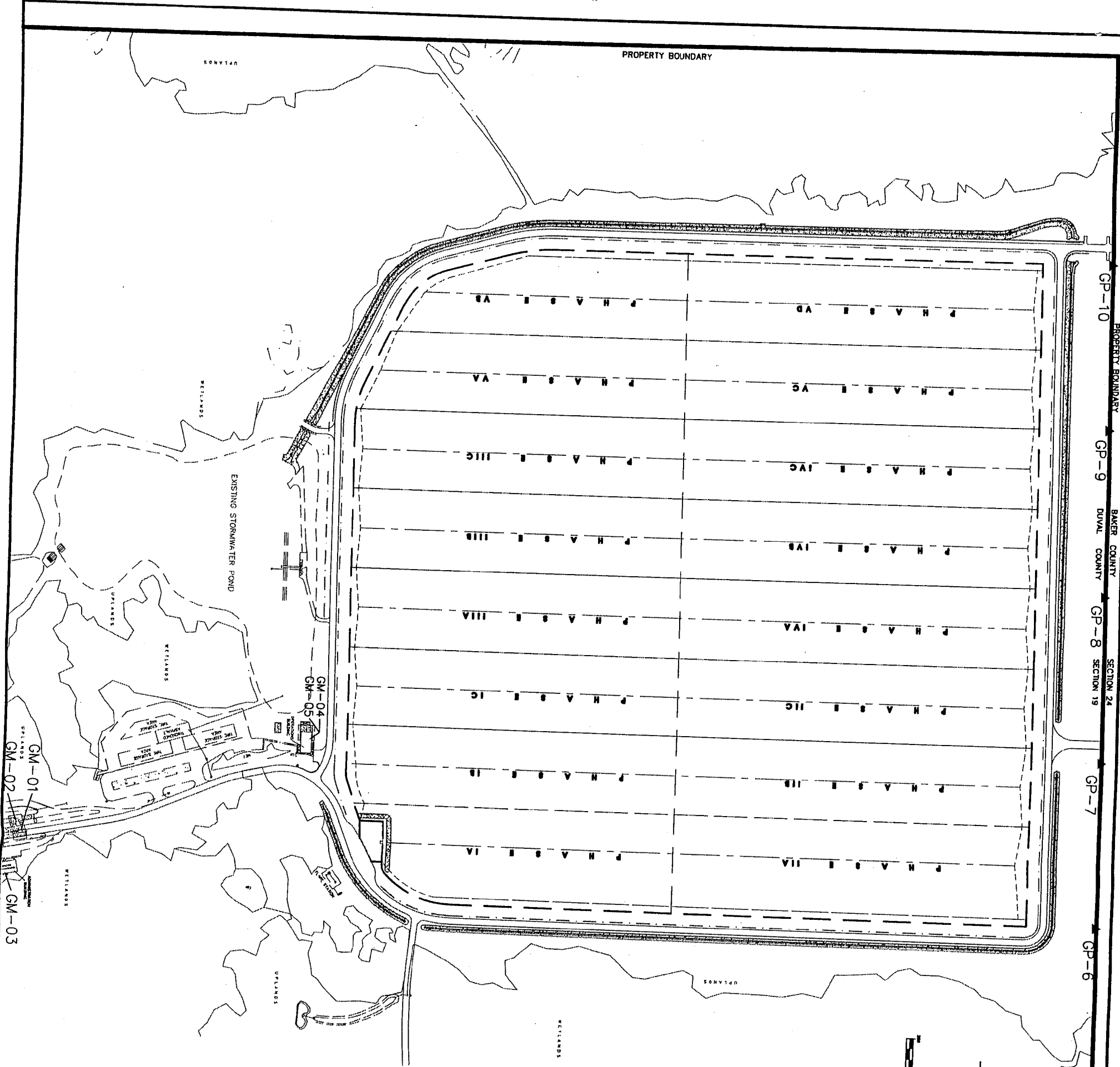
Sincerely,



Michael J. Fitzsimmons  
Waste Program Administrator

MJF:mn

cc: Chris McGuire, Office of General Counsel, DEP



**LEGEND**

▲ GAS PROBE  
GP-10 GAS PROBE NUMBER  
GM-04 GAS MONITORING LOCATION

 <b>England-Thimms &amp; Miller, Inc.</b> ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS 14775 ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32206 CERTIFICATE OF AUTHORIZATION NUMBER: 2084 PHONE NUMBER (904) 642-8090 FAX NUMBER (904) 646-9486	<b>GAS PROBE PLAN</b>		ETM NO. 02-025	REVISIONS:
	TRAIL RIDGE LANDFILL PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.		DRAWN BY: S.J.L.	
			DESIGNED BY: J.B.C.	
			CHECKED BY: J.B.C.	
			DATE: SEPTEMBER 25, 2002	

APPENDIX F

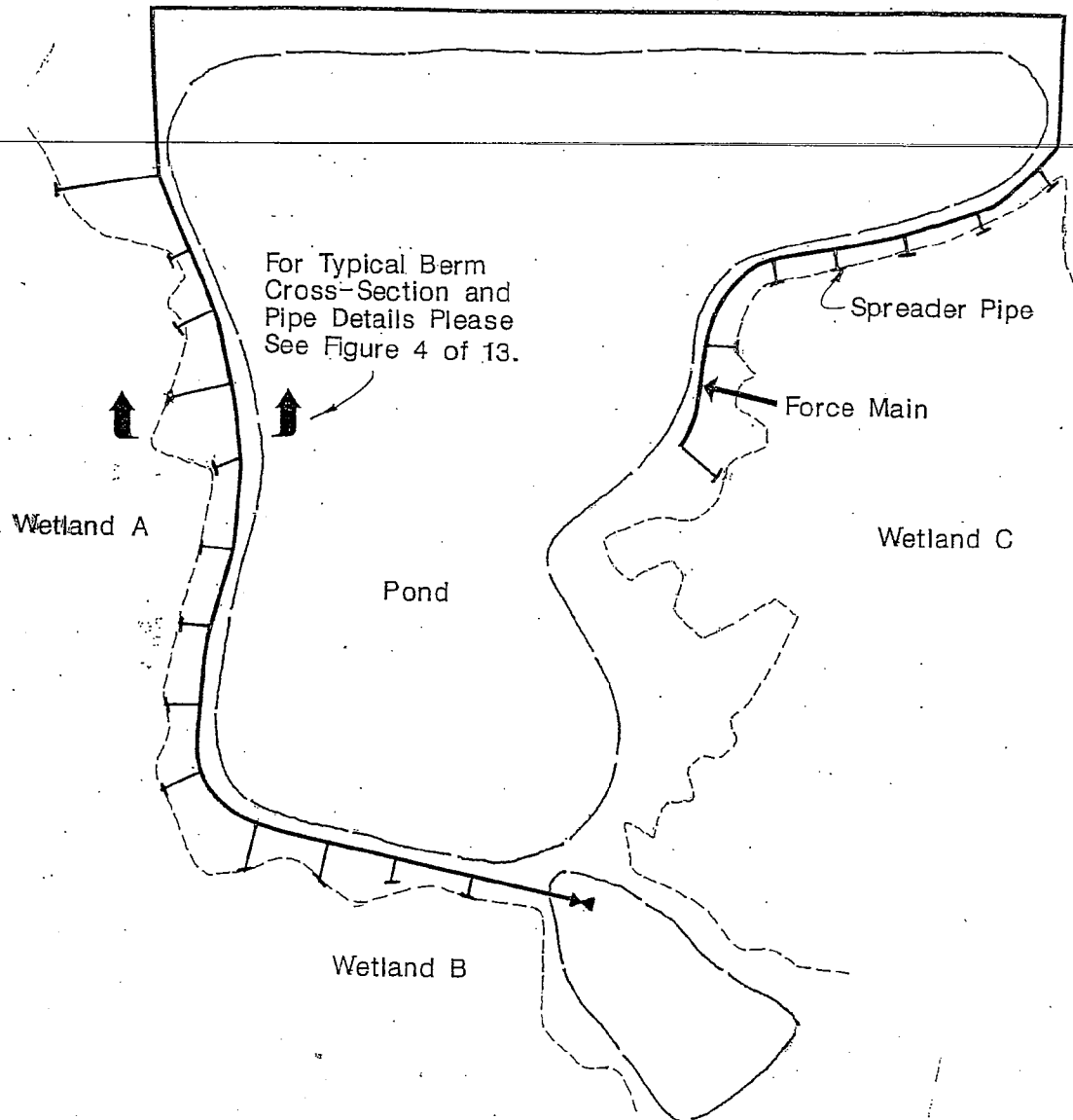




ENVIRONMENTAL  
SERVICES, INC.

Trail Ridge Landfill  
Jacksonville, Florida

Project No.	EL02131.00
Date	September 2002
Figure No.	3



Detailed Plan View of  
Wetland Irrigation System

# **TRAIL RIDGE LANDFILL EVALUATION OF PERSONNEL REQUIREMENTS**

Time	Trucks/Hr <sup>(a)</sup> Current	Tons/Hr <sup>(b)</sup>	Tonnage Current	Proposed Trucks/Hr 3,500/Day	Proposed Trucks/Hr 4,000/Day	Proposed Trucks/Hr 4,500/Day	Proposed Trucks/Hr 5,000/Day	Spotter <sup>(c)</sup> Trucks/Hr	Laborer <sup>(d)</sup> Trucks/Hr	Equip. Op. <sup>(e)</sup> Trucks/Hr
6:00 - 7:00 AM	40.8	344.6	344.6	47.8	54.6	61.4	68.2	40	24	20
7:00 - 10:00 AM	25.3	213.7	641.0	29.6	33.8	38.1	42.3	40	24	20
10:00 AM - 3:00 PM	37.3	315.0	1575.1	43.7	49.9	56.1	62.4	40	24	20
3:00 - 5:00 PM	19.1	161.3	322.6	22.4	25.6	28.7	31.9	40	24	20
5:00 - 7:00 PM	6.3	53.2	106.4	7.4	8.4	9.5	10.5	40	24	20
			2989.7							

Time	3,000/Day			3,500/Day			4,000/Day		
	Spotters Required	Laborers Required	Equip. Op. Required	Spotters Required	Laborers Required	Equip. Op. Required	Spotters Required	Laborers Required	Equip. Op. Required
6:00 - 7:00 AM	2	2	2	2	2	3	2	3	3
7:00 - 10:00 AM	1	2	2	1	2	2	1	2	2
10:00 AM - 3:00 PM	1	2	2	2	2	3	2	3	3
3:00 - 5:00 PM	1	1	1	1	1	2	1	2	2
5:00 - 7:00 PM	1	1	1	1	1	1	1	1	1

Time	4,500/Day			5,000/Day		
	Spotters Required	Laborers Required	Equip. Op. Required	Spotters Required	Laborers Required	Equip. Op. Required
6:00 - 7:00 AM	2	3	4	2	3	4
7:00 - 10:00 AM	1	2	2	2	2	3
10:00 AM - 3:00 PM	2	3	3	2	3	4
3:00 - 5:00 PM	1	2	2	1	2	2
5:00 - 7:00 PM	1	1	1	1	1	1

- Based upon facility records.
- Based upon an average of 8.45 tons per truck.
- Based upon 1.5 minutes per load.
- Based upon 2.5 minutes per load.
- Based upon 3 minutes per load.

Note: Spotter means a trained spotter per Rule 62-701.320(15), FAC.

CERTIFICATION

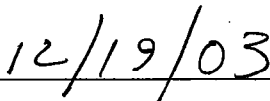
PROJECT NAME: Trail Ridge Landfill  
Renewal

COUNTY: Duval County

APPLICATIONS NO.: 0013493-010, 0013493-011, & 126289-001

I HEREBY CERTIFY that the engineering features described in the above referenced applications provide reasonable assurance of compliance with the applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Title 62. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including, but not limited to, the electrical, mechanical, structural, hydrological, and geological features).

  
\_\_\_\_\_  
Mary Nogas, P. E.  
(Seal)

  
\_\_\_\_\_  
(Date)

December 19, 2003

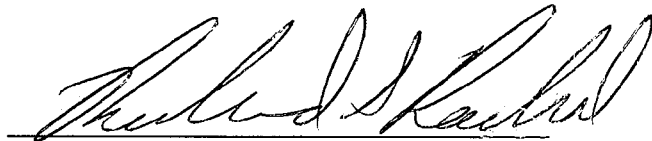
CERTIFICATION

PROJECT NAME: Trail Ridge Landfill  
Class I Operations Renewal

COUNTY: Duval County

APPLICATION NUMBER: 0013493-010 and 0013493-011

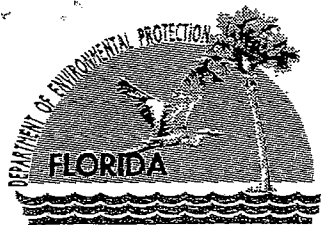
I HEREBY CERTIFY that the geologic and hydrogeologic portions described in the application for the above referenced applications and the permit issued pursuant to that application provide reasonable assurance of compliance with the applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Title 62. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including, but not limited to, the engineering, geotechnical, and surface hydrologic portions).



Richard S. Rachal, III, P. G.  
(Seal)



(Date)



Jeb Bush  
Governor

Department of  
Environmental Protection

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

Colleen M. Castille  
Secretary

April 22, 2004

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

Dear Mr. Mathes:

Trail Ridge Landfill facility  
Permit Number: 0013493-010-SC  
Duval County - Solid Waste

Enclosed are corrected pages 7, 21, 27, 28 and 36 of the above-referenced permit (issued December 19, 2003). Specific condition numbers 9, 37d, 41b, 42 and 48o were corrected on said respective pages. Please replace your file copies with these pages. We apologize for this oversight and any inconvenience this may have caused.

If you have any comments concerning this matter, please contact Julia Boesch at the letterhead address or telephone number (904) 807-3365.

Sincerely,

Mary C. Nogas, P. E.  
Solid Waste Supervisor

MCN:jb:mlp

Enclosure

cc: Juanitta Bader Clem, P.E.  
Chris Pearson

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007  
Corrected Page

### **SPECIFIC CONDITIONS:**

6. **Permit Renewal.** Pursuant to FAC Rule 62-4.090, by September 25, 2007 the Permittee shall apply for a renewal of the permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five (5) years as required by FAC Rule 62-701.330(2).
7. **Notification in Case of an Emergency.** The Permittee shall immediately notify the Department by telephone whenever a serious problem occurs at the facility including a fire or other emergency, which poses an unanticipated threat to the public health or the environment. During regular business hours, notification shall be made to the Northeast District Office at (904) 807-3300. If an emergency occurs outside regular business hours, the Permittee shall telephone the 24-hour emergency phone number (800) 320-0519. This number is for emergencies only. Within seven (7) days of any emergency, the Permittee shall submit to the Department, a written report explaining the extent of the problem, the cause, and what actions have been or will be taken to correct the problem, or prevent its recurrence.
8. **Provisions of Temporary Source of Potable Water.** The Permittee shall provide a temporary source of potable water within seven (7) days and a permanent safe drinking water supply within 180 days of discovery of contamination to replace any potable water well that is shown by chemical and hydrogeologic analysis to be contaminated by the facility. This temporary source of water shall meet all drinking water standards set forth in FAC Chapter 62-550 and shall be provided at the Permittee's expense.
9. **Design Elevations and Annual Survey.** The maximum design elevation for the Trail Ridge Landfill is elevation 350.6 ft. MSL. This maximum specified elevation shall include the final cover system. A survey of the waste disposal areas shall be conducted and submitted to the Department between March 1 and July 1 of each year of this permit until it is within ten (10) feet of the maximum design elevation, after which the survey shall be conducted quarterly. This information is to be submitted to the Department within sixty (60) days of conducting the survey and shall include the existing elevations in five foot contour intervals and in reference to the National Geodetic Vertical Datum, all points designed for terraces and the location of the toes of the side slopes.
10. **Financial Assurance.** The Permittee shall maintain, in good standing, the financial assurance mechanisms established to demonstrate proof of financial assurance. Support documentation and evidence of inflation adjustment increases shall be submitted within the time frames specified in Rule 62-701.630, FAC. All submittals in response to this specific condition shall be sent to: Financial Coordinator, Solid Waste Section, Florida Department of Environmental Protection, Mail Station Number 4565, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. The Permittee shall file with the Department a signed duplicate of the escrow account

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007  
Corrected Page

### **SPECIFIC CONDITIONS:**

37. **Contingency Operations.** Prior to the imminent threat of a natural disaster (i.e., hurricane or tornado), flooding and fire, the following procedures (at a minimum) shall be implemented:
- a. Initial soil cover shall be applied and compacted to all exposed solid waste;
  - b. All landfill equipment shall be fueled and parked near natural wind screens, earthen mounds or tree areas; and
  - c. All lightweight signs and equipment shall be secured.
  - d. In the event a hot load is received or a fire occurs at the facility, the Permittee shall follow the procedures addressed on page 30 of section VIII "Operation Plan" found in Document 1 as amended by comment 65 of Documents, 2, 3 and 4 to control and extinguish the fire. The facility shall extinguish a fire, either surface or subsurface that occurs at the facility, as soon as possible, using the proper techniques such as adding water and/or cutting off the oxygen supply. The area where a fire occurs, including a subsurface fire, shall be cordoned off. The local fire Department shall be contacted when needed. Fire hydrant(s) shall be maintained at the facility. The facility shall notify the Department of the fire as soon as possible and within 24 hours of discovery of the fire.

Additionally, the following actions shall be implemented in the event a fire occurs within the working face. The facility shall immediately cease disposal operations in the working face area until the fire is extinguished. The landfill operator or his designee shall direct all waste disposal operations to another operational area, (an area that has no intermediate or final cover) within the liner footprint and that is a safe distance from the fire. The temporary disposal area shall not be located in an area that may interfere or delay movement of fire fighting equipment. For a subsurface fire that occurs outside the working face the landfill operator or his/her designee shall cordon off the area and shall also assess and determine if the active working face shall be moved until the fire is extinguished. At no time shall the facility continue to accept waste in a burning area.

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007  
Corrected Page

## **SPECIFIC CONDITIONS:**

- 41b. Final cover system design.** Terraces, downcomer pipes, and the final cover system shall be constructed in accordance with the details provided on drawing sheet number 21, Document 2. The final cover system for the side slopes shall consist of the following from bottom to top: a minimum 1 foot thick intermediate cover layer consisting of only uncontaminated soil material, a minimum 12 inch thick clay layer (after installation) that has a maximum permeability of  $6.67 \times 10^{-8}$  cm/sec, a minimum 2 foot thick top soil layer with the top 6 inches capable of sustaining vegetation and the vegetative cover proposed in your application. Terraces with underdrains shall be constructed at the elevations reflected on Drawing sheet number 15 and in accordance with the detail provided on drawing sheet number 21, Document 2. Downcomers shall also be provided as reflected in said drawing sheets. The final cover system for the top slope shall consist of the following from bottom to top: 1 foot minimum thick intermediate cover layer consisting of only uncontaminated soil material, at least 40 mil average thickness geomembrane, minimum 1 foot minimum thick sand layer, permeability of  $1 \times 10^{-3}$  cm/sec or greater, and 1 foot minimum thick top soil layer with the top 6 inches being capable of supporting vegetation. All earthen materials shall be uncontaminated. Additionally, the soil/mulch mixture used on exterior side slopes or top slopes and addressed in specific condition 31 shall be removed prior to placement of the final cover system.
- c. Interface friction angles.** The Permittee shall test the interface friction angles of the material that will be installed in the final cover system. The materials shall provide interface friction angles pursuant to Response 51 and Attachment D, of Document 4.
- d. Closure construction Quality Assurance.** The Permittee shall provide quality assurance to each of the phased closure projects. In constructing the side slopes the Permittee shall implement the procedures and conduct the testing proposed in the "Quality Assurance/Quality Control Plan for Side Slope Closure," provided in Attachment D of Document 4. In constructing the top slopes, the Permittee shall implement the procedures and conduct the testing proposed in the "Quality Assurance/Quality Control Plan for Top Slopes," provided in Appendix K of Document 1. Quality assurance shall be provided by a qualified party independent of the contractor. The QA individual shall be experienced in landfill construction.
- e. Certification of Closure Construction Completion.** The Permittee shall provide a certification of closure construction completion to the Department within 30 days after completing each closure phase, as reflected on Drawings Sheets 14 and 15, provided with Document 2, Closure Phase 3 through Closure Phase 8. The certification shall be prepared, signed and sealed by a Professional Engineer registered in the state of Florida. Record Drawings and a final survey report done by a professional surveyor, in accordance with Rule 62-701.610(3), FAC, shall be provided for each incremental closure as well as the final closure.



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

I. D. Number: NED/16/00033628  
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Corrected Page

### **SPECIFIC CONDITIONS:**

The items required in this specific condition number at a minimum, shall be reflected on the drawings accordingly. Also, documentation shall be provided demonstrating that the items requested in this specific condition have been provided. A final certification shall be provided within 30 days of completing closure of the facility as reflected on Drawing Sheet 15, document 2, Closure Phase 8. Included with the report shall be a signed and sealed survey, record drawings and depth checks. The official long-term period will not begin until the final certification of the entire permitted facility is received and approved by the Department and the other requirements of FAC Rule 62-701.610 are met.

42. **Non-authorized.** This permit does not authorize the following:
- a. This permit does not authorize leachate recirculation.
  - b. This permit does not authorize the reuse of any materials other than as indicated by specific condition numbers 30, 31 and 32.
43. **Stormwater Management System.** The operation and maintenance of the stormwater management system shall be as set forth in the plans, specifications, and performance criteria contained in the Department file and approved by this permit.
- A. **Operational Maintenance.** The following operational maintenance activities shall be performed on all permitted systems on a regular basis or as needed:
- (1) Removal of trash and debris
  - (2) Inspection of inlets and outlets
  - (3) Removal of sediments when the storage volume or conveyance capacity of the system is below design level or when the system is rendered ineffective on account of clogging/sedimentation of the pond bottoms.
  - (4) Stabilization and restoration of eroded areas.
  - (5) Mowing and removal of grass clippings.
  - (6) Aeration, tilling or replacement of topsoil as needed to restore percolation capability of the system.

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

I. D. Number: NED/16/00033628  
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Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007  
Corrected Page

**SPECIFIC CONDITIONS:**

- n. The Permittee shall prepare and submit to the Department groundwater surface contour maps, prepared from data collected from all permitted wells on site, for the initial sampling event and each semi-annual sampling event. A shallow surficial map, utilizing data from the shallow wells; an intermediate surficial map, utilizing the data from the intermediate wells; and a deep surficial map, utilizing data from the deep wells will be prepared and submitted to the Department, with the groundwater elevation data. This information shall be submitted in conjunction with the initial and semi-annual analytical data.
- o. If, at any time, groundwater standards and/or criteria are exceeded, or if parameter concentrations in detection wells are significantly above unaffected background water quality, the Permittee shall notify the Department within fourteen (14) days of discovery. The Permittee may resample the monitor well(s) to verify the groundwater analysis within thirty (30) days of receipt of the analytical data. The Permittee shall submit to the Department the results of the resampled groundwater monitoring well water quality analysis and the original analysis no later than the sixty (60) days following initial receipt of the original analytical data.

Should the Permittee choose not to resample, the Department will consider the water quality analysis that exceeded the standards and/or criteria, or that significantly exceeded background water quality, as representative of current groundwater conditions at the facility.

If the groundwater standards and/or criteria are exceeded in a detection well or if parameters in a detection well are significantly above unaffected background water quality, the Permittee shall implement the Evaluation Monitoring and Corrective Action requirements of FAC Rule 62-701.510.

If the groundwater standards and/or criteria are exceeded in a compliance well or if parameters in a compliance well are significantly above unaffected background water quality, the Permittee shall initiate and implement corrective action in accordance with FAC Rule 62-701.510(7)(b)2 and current Department rules or guidance within sixty days.
- p. Compliance with groundwater standards and/or criteria shall be determined by analysis of unfiltered or settled groundwater samples.



Jeb Bush  
Governor

# Department of Environmental Protection

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

Colleen M. Castille  
Secretary

May 11, 2006

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

Re: **Trail Ridge Landfill**  
**Permit No. 0013493-010-SC**  
**Revised Stockpile Plan**  
**Duval County-Solid Waste**

Dear Mr. Mathes:

The Department has reviewed Francis Dayao's April 26, 2006 dated request (received April 27, 2006) to revise the storage locations for Department-approved contaminated soils. The revised locations, as shown on the accompanied drawing, are approved so long as all requirements of Specific Condition 32 of the Permit are met.

This approval shall be attached to and kept with the Permit at all times.

If you have any questions or comments, I can be reached by telephone at 904.807.3365 or by email at [Emerson.Raulerson@DEP.State.FL.US](mailto:Emerson.Raulerson@DEP.State.FL.US).

Sincerely,

Emerson C. Raulerson, P.E.  
Solid Waste Section

Enclosure

cc: Francis Dayao, P.E. – England-Thims & Miller, Inc.

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DEP003087



# England-Thims & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • GIS • LANDSCAPE ARCHITECTS

April 26, 2006

Mr. Emerson Raulerson, P.E.  
Department of Environmental Protection  
Solid Waste Section  
7825 Baymeadows Way, Suite B-200  
Jacksonville, Florida 32256

Reference: Trail Ridge Landfill  
Proposed Stockpile Plan – Revision  
E05-191

**Principals**

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

**Emeritus**

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

Dear Mr. Raulerson:

On behalf of Trail Ridge Landfill, Inc., attached are the existing and revised Stockpile Plans for Trail Ridge Landfill. The revised Stockpile Plan is being submitted to allow Trail Ridge Landfill, Inc., to store contaminated soil materials that have been approved by the Department in the stockpile areas shown on the revised plan. The current approved stockpile locations were adjusted to be consistent with existing landfill conditions and a third area has been added for accessibility. Please note that these areas, as authorized by the permit, may also be used by the facility to store unapproved materials not to exceed 60 days as long as it meets the requirements of Specific Condition 32.

The proposed areas are located within the liner footprint and will have at least 20' setback from exterior sideslopes. Record keeping and posting of signs, and all other conditions required by Specific Condition 32 will also be met.

We hope that we have provided you with the information you need to authorize Trail Ridge Landfill, Inc., to utilize the new stockpile areas. A formal response from the Department is being requested.

If you have any questions, please feel free to give me a call at (904)265-3132.

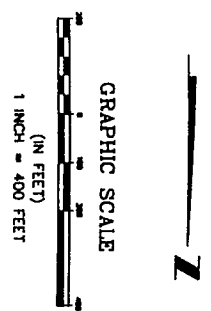
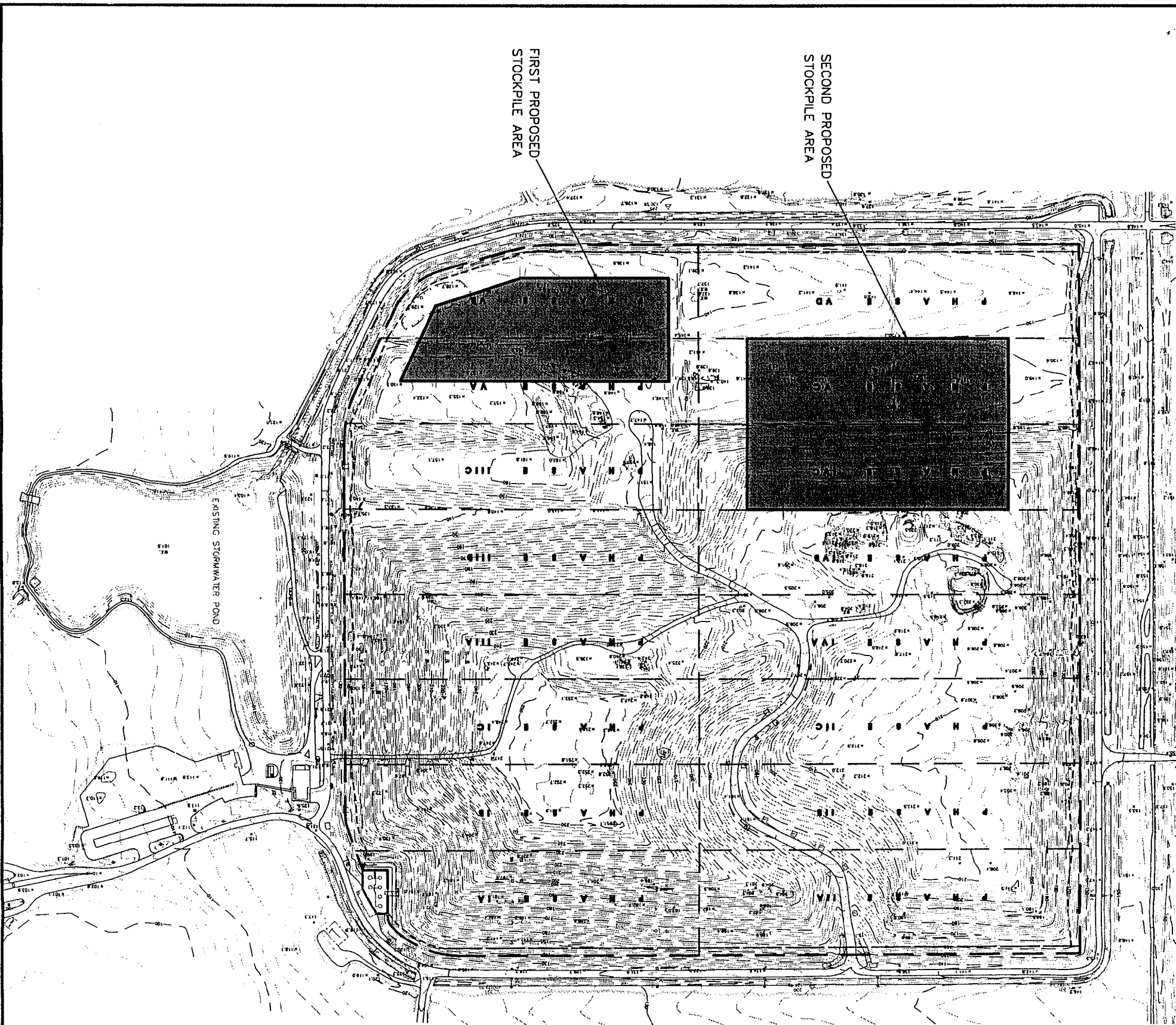
Sincerely,

**ENGLAND, THIMS & MILLER, INC.**


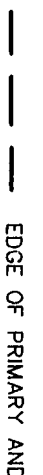

*Francis Dayao*  
Francis Dayao, P. E.  
Project Engineer

Attachments

Copy To: Greg Mathes




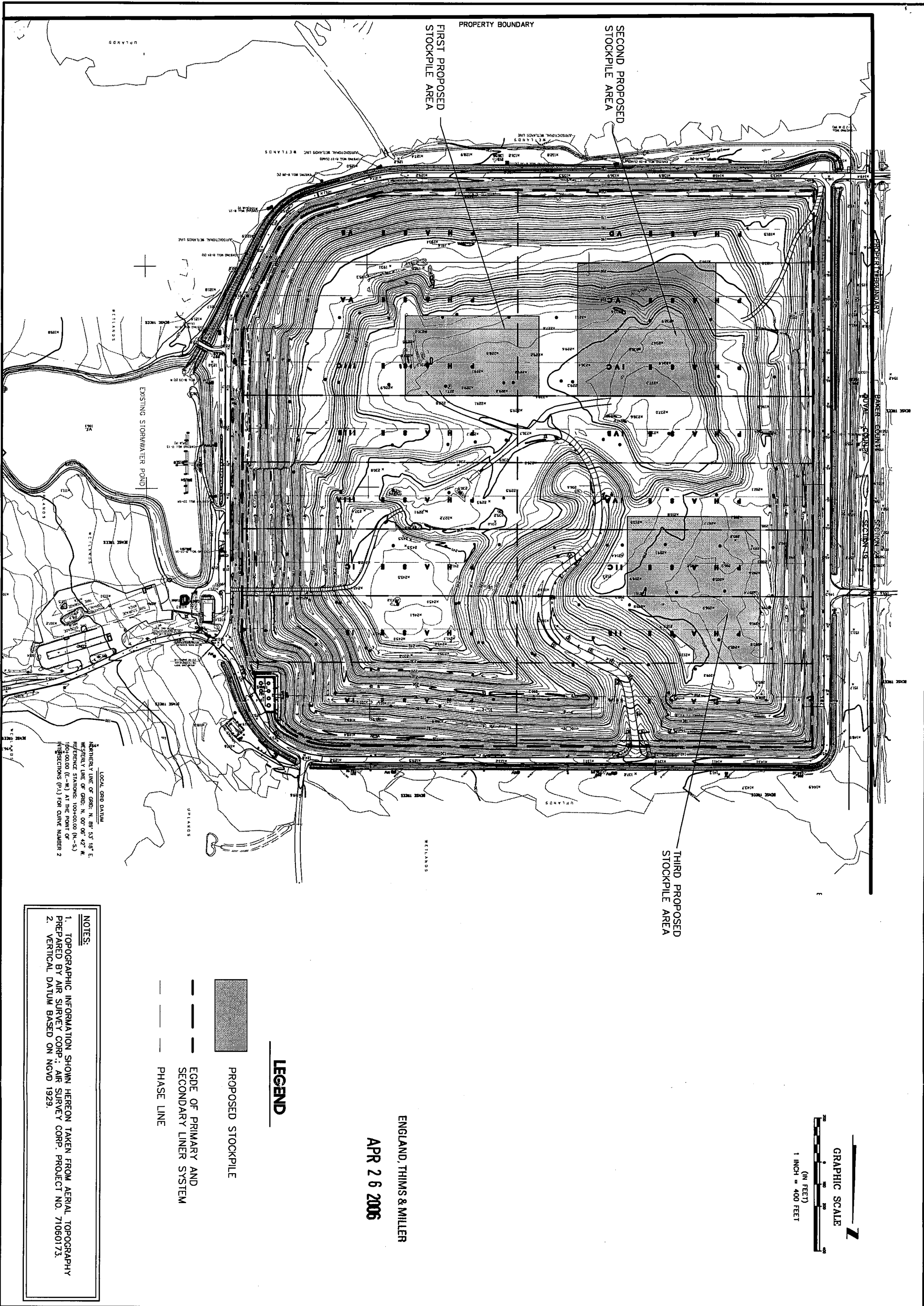
**LEGEND**

-  PROPOSED STOCKPILE
-  EDGE OF PRIMARY AND SECONDARY LINER SYSTEM
-  PHASE LINE

**NOTES:**

1. TOPOGRAPHIC INFORMATION SHOWN HEREON TAKEN FROM AERIAL TOPOGRAPHY PREPARED BY AIR SURVEY CORP.; MAP DATED 3-15-02. AIR SURVEY CORP. PROJECT NO. 71020260.
2. VERTICAL DATUM BASED ON NGVD 1929.

<div>DRAWING NO.</div> <div>1</div>	<div><b>England-Thimly &amp; Miller, Inc.</b> ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS 14776 ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32268 CERTIFICATE OF AUTHORIZATION NUMBER 2684 PHONE NUMBER (904) 648-8990 FAX NUMBER (904) 648-9485</div>	<div>PROPOSED STOCKPILE PLAN</div> <div>TRAIL RIDGE LANDFILL PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.</div>	<div>ETM NO. 02-025</div> <div>DRAWN BY: S.J.L.</div> <div>DESIGNED BY: J.B.C.</div> <div>CHECKED BY: J.B.C.</div> <div>DATE: SEPTEMBER 25, 2002</div>	<div>REVISIONS:</div>	



**NOTES:**

1. TOPOGRAPHIC INFORMATION SHOWN HEREON TAKEN FROM AERIAL TOPOGRAPHY PREPARED BY AIR SURVEY CORP.; AIR SURVEY CORP. PROJECT NO. 71060173.
2. VERTICAL DATUM BASED ON NGVD 1929.

**England • Thims & Miller, Inc.**  
ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS  
14775 ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32258  
CERTIFICATE OF AUTHORIZATION NUMBER: 2584  
PHONE NUMBER (904) 642-8990 FAX NUMBER (904) 648-9485

**REVISED STOCKPILE PLAN**  
**TRAIL RIDGE LANDFILL PERMIT RENEWAL**  
**FOR**  
**TRAIL RIDGE LANDFILL, INC.**

ETM. NO. 02-025  
DRAWN BY: F.D.D.  
DESIGNED BY: F.D.D.  
CHECKED BY: J.B.C.  
DATE: SEPTEMBER 25, 2002

REVISIONS:  
4-25-06 REVISED LOCATIONS DUE TO CURRENT CONDITIONS



Jeb Bush  
Governor

# Department of Environmental Protection

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

Colleen M. Castille  
Secretary

September 19, 2005

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

Dear Mr. Mathes:

Trail Ridge Landfill  
Modification No. 0013493-013 to Permit No. 0013493-010-SC  
Duval County-Solid Waste

The Department has reviewed your request to modify this permit consisting of the application for minor permit modification received on July 22, 2005 and supplemented on August 24, 2005. The application involves two requests: 1) to operate a second working face; and 2) to utilize a portable tipper.

This Notice of Modification does not alter the expiration date, the General Conditions, or any Specific Conditions, with the exception of the revision of specific condition numbers 16 and 17 (which revisions are underlined), as noted below. **This letter must be attached to the original permit.**

**Specific Condition No. 16 shall now read as follows:**

- 16. Operating Personnel and Working Faces.** As required by FAC Rule 62-701.500(1), at least one (1) trained operator shall be present at the landfill during all times when the landfill receives waste. Trained operators are those who satisfy the definition provided in FAC Rule 62-701.200(89) and who satisfy the requirements of Chapter 62-701.320(15) for both initial and continued training. Also, at least the minimum number of spotters listed in the matrix "Trail Ridge Landfill Evaluation of Personnel Requirements," contained in Attachment A of Document 4, and included herein as Attachment 10, for the corresponding waste amounts shall be provided at the working face at all times the facility is operating. The facility may have up to two working faces at the same time on condition that a tipper is being operated at one of the two working faces. At all times the facility is receiving and/or spreading waste at a working face, at least one trained spotter shall be present at that respective working face and shall observe the waste stream for

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DEP003091

prohibited waste as it is being deposited and spread. For example, if waste is being accepted and/or spread at both working faces at the same time, there shall be at least one trained spotter at each working face for a minimum total of two trained spotters. The spotters shall satisfy the definition provided in FAC Rule 62-7-1.320(15)(h) and shall satisfy the training requirements of FAC Rule 62-701.320(15) for both initial and continued training.

Training Certifications shall be kept on-site and shall be made available to the Department at the Department's request including during a routine site inspection. The Department suggests that the Permittee contact the Department or visit the TREEO Center web site, to ensure the course selected for training is still valid for the facility and position requiring training.

In addition to the trained operators and spotters, the Permittee shall provide the other minimum personnel listed in the said aforementioned matrix and the equipment required, pursuant to specific condition number 17, for the corresponding waste amounts. For example, if the facility is accepting in the range of more than 4,500 tons of waste up to 5,000 tons of waste in a day, there shall be, during the peak times of 6:00 a.m. to 7:00 a.m., and 10:00 a.m. to 3:00 p.m., a minimum, in addition to two (2) trained spotters, three (3) day laborers and four (4) equipment operators, for a minimum total of nine (9) people. The laborers shall spot waste and remove prohibited waste under the direction of a trained spotter stationed at the working face.

**Specific Condition No. 17 shall now read as follows:**

17. **Landfill Equipment.** The on-site equipment shall consist of: three (3) compactors and two (2) dozers, at a minimum. A tipper may also be provided and utilized at the site. If the waste receipt rate at the facility exceeds 1,300 tons per day, the Permittee shall provide a minimum total of two (2) compactors at the working face(s); if the waste receipt rate exceeds 2,600 tons per day at the facility, a minimum total of three (3) compactors shall be provided at the working face(s). When no waste is being disposed and/or spread at the tipper working face, the compactor assigned to it may be moved to and utilized at the other working face as needed. The Permittee shall ensure that sufficient reserve equipment is available or arrangements to obtain additional equipment within 24 hours of equipment breakdown have been made.

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

This Notice of Modification is final and effective on the date filed with the clerk of the Department unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.



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

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

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

Mr. Greg Mathes  
September 19, 2005  
Page four

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

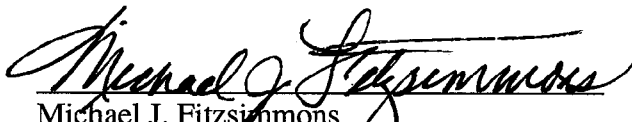
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of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

Mediation is not available in this proceeding.

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

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

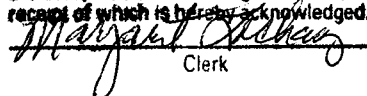
  
Michael J. Fitzsimmons  
Waste Program Administrator

*WME JB ECR*  
Copies furnished to: Juanitta Clem, England, Thims and Miller, Inc.

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT MODIFICATION was mailed before the close of business on September 19, 2005.

**FILING AND ACKNOWLEDGEMENT**  
FILED, on this date, pursuant to §120.52 Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.

  
Clerk Date 9-19-05

CERTIFICATION

PROJECT NAME: Trail Ridge Landfill  
Minor Modification No. 0013493-013  
to Permit No. 0013493-010-SC

COUNTY: Duval County

FILE NO.: 0013493-013

I HEREBY CERTIFY that the engineering features described in the above file provide reasonable assurance of compliance with the applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Title 62. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including, but not limited to, the electrical, mechanical, structural, hydrological, and geological features).

  
Emerson C. Raulerson, P.E.  
(Seal)

9/19/05  
(Date)



Jeb Bush  
Governor

# Department of Environmental Protection

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

Colleen M. Castille  
Secretary

December 13, 2004

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

Dear Mr. Mathes:

Trail Ridge Landfill  
Modification No 0013493-012 to Permit No. 0013493-010-SC  
Duval County-Solid Waste

The Department has modified this permit to lower the required laboratory detection limit for arsenic in your facility's samples due to new Primary Standard for arsenic that goes into effect on January 1, 2005.

This Notice of Modification does not alter the expiration date, the General Conditions, or any Specific Conditions, with the exception of the revision of 48(j). **This letter must be attached to the original permit.**

**Specific Condition No. 48(j) shall read as follows:**

- 48j. All sample collection and water quality analysis shall be in conformance with F.A.C. Chapter 62-160 and FAC 62-522.600. Sampling and monitoring data shall be collected, analyzed, reported and retained in accordance with Chapter 62-160, F.A.C. Laboratory detection limits for arsenic must be 10 µg/l or less.

Any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health (DOH) under Chapter 64E-1, F.A.C., where such certification is required by Rule 62-160.300, F.A.C. The laboratory must be certified for all specific method/analyte combinations that are used to comply with this permit.

Biological evaluations shall follow the applicable procedures in DEP-SOP-002/01 (January 2002).

All field activities including on-site tests and sample collection, whether performed by a laboratory or another organization, must follow all applicable procedures described in DEP-SOP-001/01 (January 2002). Alternate field procedures and laboratory methods may be used

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DEP003096

if they have been approved according to the requirements of Rules 62-160.220 and 62-160.330, F.A.C.

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

This Notice of Modification is final and effective on the date filed with the clerk of the Department unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

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

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

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department file number, and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- (d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;

A statement of the ultimate facts alleged, including a statement of the specific facts, which the petitioner contends warrants reversal or modification of the Department's action or proposed action;

- (e) A statement of the specific rules or statutes the petitioner contends requires reversal or modification of the Department's action or proposed action; and
- (f) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

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

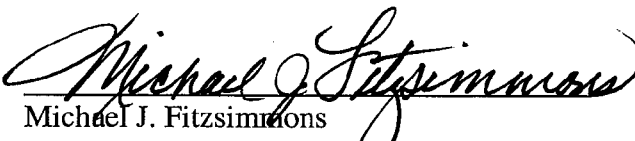
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of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

Mediation is not available in this proceeding.

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

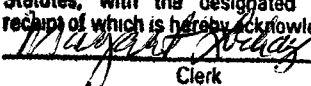
Executed in Jacksonville, Florida.

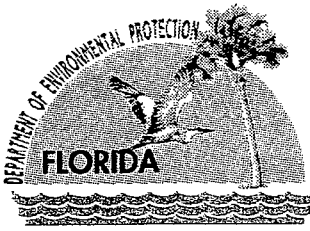
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

*MJ*  
  
Michael J. Fitzsimmons  
Waste Program Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT MODIFICATION was mailed before the close of business on December 13, 2004.

**FILING AND ACKNOWLEDGEMENT**  
FILED, on this date, pursuant to §120.52 Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.  
  
Clerk  
Date 12-13-04



Jeb Bush  
Governor

# Department of Environmental Protection

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

David B. Struhs  
Secretary

June 9, 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 Renewal and Modification Request  
FDEP File Number 13493-010 and 13493-011  
Request for Additional Information  
Duval County - Solid Waste

The Department has reviewed your submittal, received May 16, 2003. The following review is enclosed:

Attachment 1, Review Memorandum, dated June 9, 2003, prepared by Julia Boesch.

The information requested in this review is required for the Department to proceed with the processing of your permit application. Please provide the requested information by July 14, 2003. Action on the application will be delayed until the requested information is received in this office. Please reference the associated DEP file number in all written correspondence concerning this project.

If you have any comments concerning this matter, please contact Julia Boesch at the letterhead address or telephone number (904) 807-3356.

Sincerely,

Mary C. Nogas, P. E.  
Solid Waste Supervisor

MCN:jb:ml

cc: Juanitta Bader-Clem, P.E., England, Thims, and Miller, Inc.

*"More Protection, Less Process"*

*Printed on recycled paper.*

DEP003099

**Memorandum**

**Florida Department of  
Environmental Protection**

---

Northeast District – Jacksonville

TO: Files

THROUGH: Mary C. Nogas, P. E.  
Solid Waste Section Supervisor

FROM: Julia Boesch

DATE: June 9, 2003

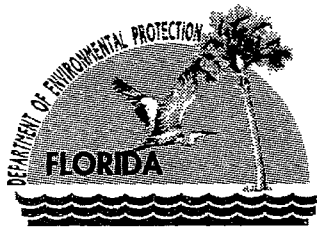
SUBJECT: Trail Ridge Landfill  
Permit renewal and leachate recirculation  
FDEP File Numbers 13493-010 and 13493-011  
Fourth Request for Additional Information  
Duval County- Solid Waste

---

The Department has reviewed your submittal received on May 16, 2003. The comments are adequate to develop specific conditions to the requested permit with the exception of comment number 19. The Department requests the following information:

19. The 1992 approach for ensuring that the geonet is not flooded was updated in 1997. Please readdress this issue with the updated approach and provide all supporting calculations. Please note that an action trigger rate five times the determined rate appears excessive.





Jeb Bush  
Governor

# Department of Environmental Protection

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

David B. Struhs  
Secretary

August 18, 2003

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

Dear Mr. Mathes:

Trail Ridge Landfill, Inc  
Permit number 0013493-002-SC  
Partial closure units 21-23 and units 1-4 (complete)  
Duval County - Solid Waste

The Department acknowledges receipt of the following documents submitted pursuant to Florida Administrative Code Chapter 62-701 and Specific Condition Number 47 of the subject Permit:

1. Trail Ridge Landfill Incremental Closure Quality Assurance and Quality Control Documentation for Units 1-4 (complete) and 21-23, including the Certification of Construction Completion of a Solid Waste Management Facility, signed and sealed by Juanitta Bader Clem, P.E, prepared by England, Thims and Miller, Inc., and Drawing sheets, CI-3A and CI-6, signed and sealed by Joseph Leslie Reynolds, professional surveyor, received July 26, 2002.

The Department has reviewed the aforementioned Document, which addresses the closure of units 1-4, and of units 21-23, reflected on Drawing sheet number 14, provided October 28, 1996, as "Closure Phase 2." Based on the department's review, the department has determined the closure construction of partial closure units 21-23 and units 1-4 (complete) to be acceptable.

If you have any comments concerning this matter, please contact Julia Boesch at the letterhead address or telephone number (904) 807-3356.

Sincerely,

Mary C. Nogas, P. E.  
Solid Waste Supervisor

MCN;jb:ml

cc: Juanitta Bader Clem, P.E., England, Thims and Miller, Inc.

*"More Protection, Less Process"*

*Printed on recycled paper.*

DEP003101



**TRAIL RIDGE LANDFILL, INC.**

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

October 15, 2003

Mr. Michael J. Fitzsimmons  
Florida Department of Environmental Protection  
7825 Baymeadows Way, Suite B-200  
Jacksonville, Florida 32256-7590

Re: Trail Ridge Landfill Solid Waste Permit  
Affidavit of Publication, Legal Notice

Dear Mr. Fitzsimmons:

Enclosed is the "affidavit of publication" for the Trail Ridge Landfill Solid Waste Permit.  
This was published in the Florida Times Union on October 13, 2003.

If you have any questions or comments, please give me a call.

Sincerely,

A handwritten signature in cursive script that reads 'Linda J. Hair'.

Linda J. Hair  
Office Manager

Enclosure

**RECEIVED**

OCT 16 2003

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

Florida Times-Union

REFUSE SERVICE, INC/JACKSONVILLE  
AREA LANDFILLS: KAREN SEWELL  
5110 US HWY 301  
BALDWIN FL 32234

REFERENCE: 0472541

R001668 State Of Florida

State of Florida  
County of Duval

Before the undersigned authority personally appeared Kimalette Frazier who on oath says she is a Legal Advertising Representative of The Florida Times-Union, a daily newspaper published in Jacksonville in Duval County, Florida; that the attached copy of advertisement is a legal ad published in The Florida Times-Union. Affiant further says that The Florida Times-Union is a newspaper published in Jacksonville, in Duval County, Florida, and that the newspaper has heretofore been continuously published in Duval County, Florida each day, has been entered as second class mail matter at the post office in Jacksonville, in Duval County, Florida for a period of one year preceeding the first publication of the attached copy of advertisement; and affiant further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission, or refund for the purpose of securing this advertisement for publication in said newspaper.

PUBLISHED ON: 10/13

FILED ON: 10/14/03

Name: Kimalette Frazier Title: Legal Advertising Representative  
In testimony whereof, I have hereunto set my hand and affixed my official seal, the day and year aforesaid.

NOTARY:



TWILLA SHIPP  
Notary Public, State of Florida  
My comm. expires May 13, 2006  
Comm. No. DD 117248

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
NOTICE OF PROPOSED AGENCY ACTION

The Department of Environmental Protection gives Notice of its intent to issue to Trail Ridge Landfill, Inc. a solid waste permit to continue to construct and operate the Trail Ridge Landfill, a Class I Landfill. The Class I landfill disposal facility is located at 5110 U.S. Highway 301, Baldwin, Florida, in Duval County.

The Department's file on this matter is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at 7825 Baymeadows Way, Suite 200B, Jacksonville, Florida.

A person whose substantial interests are affected by the above proposed agency action may petition for an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, Mariory Stoneman Douglas Building, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within 14 days of publication of this notice or receipt of the written notice, whichever occurs first. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will only be at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:  
(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Number(s): 0013493-010, 0013493-011 and 126289-001, and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;  
(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;  
(d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;  
(e) A statement of facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;  
(f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and  
(g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

In accordance with Section 120.573, F.S., the Department advises that mediation is not available in this case as an alternative to filing a petition for an administrative determination.

DEP003103

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

TRAIL RIDGE LANDFILL INC  
5110 US HWY 301  
BALDWIN FL 32234

PS

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *Lg Hair*

☒ Agent

☐ Addressee

B. Received by (Printed Name)

*L HAIR*

C. Date of Delivery

*10-9*

D. Is delivery address different from item 1? ☐ Yes

If YES, enter delivery address below: ☐ No

Mail ☐ Express Mail

☐ Return Receipt for Merchandise

☐ Insured Mail

☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

*JW*

102595-02-M-1540

**U.S. Postal Service**

**CERTIFIED MAIL RECEIPT**

(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark  
Here

Sent To

Street, Apt. No.,  
or PO Box No.

City, State, ZIP+4

PS Form 3800, January 2001

See Reverse for Instructions

7001 2510 0007 6115 4619



Jeb Bush  
Governor

# Department of Environmental Protection

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

David B. Struhs  
Secretary

October 7, 2003

## CERTIFIED - RETURN RECEIPT

In the Matter of an  
Application for Permit by:

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

DEP Files Nos. 0013493-10, 0013493-11 and  
126289-001  
Duval County

## INTENT TO ISSUE

The Department of Environmental Protection (Department) gives notice of its intent to issue a solid waste permit (copy attached) for the proposed project as detailed in the applications specified above, for the reasons stated below.

The applicant, Trail Ridge Landfill, Inc, applied on September 26, 2002, to the Department for a solid waste permit to continue to construct and operate the Trail Ridge Landfill.

The Department has permitting jurisdiction under Chapters 373 & 403, Florida Statutes, and Florida Administrative Code Chapters 62-4, 62-25, 62-343, 62-522, 62-701, and Public Law 92-500. The project is not exempt from permitting procedures. The Department has determined that a permit is required for the proposed work.

This Intent to Issue is in accordance with the solid waste permit application received on September 26, 2002 and the supplemental information received on December 16, 2002, March 17, 2003, May 16, 2003, July 10, 2003 and August 8, 2003.

The applicant has provided reasonable assurance that the proposed work will comply with all applicable Department regulations and Chapters 373 & 403, F.S.

*"More Protection, Less Process"*

*Printed on recycled paper.*

DEP003105

Pursuant to Section 403.815, F.S., and DEP Rule 62-103.150, F.A.C., you are required to publish at your own expense the enclosed Notice of Proposed Agency Action. The notice shall be published one time only within 30 days in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. Where there is more than one newspaper of general circulation in the county, the newspaper used must be one with significant circulation in the area that may be affected by the permit. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. You must provide proof of publication to the Department at the address listed below as soon as practical after publication.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

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

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

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Number(s) 0013493-010, 0013493-011 and 126289-001 and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;

(d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;

(e) A statement of the ultimate facts alleged, including a statement of the specific facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

Mediation is not available in this proceeding.

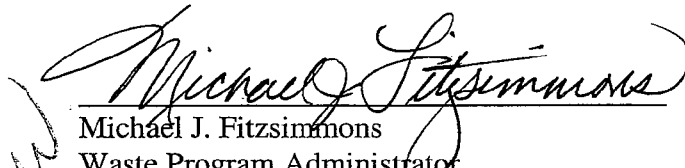
Any party to this order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal.

Intent to Issue  
Page four

The notice of appeal must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

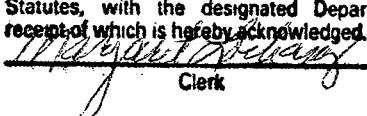
  
Michael J. Fitzsimmons  
Waste Program Administrator  
Northeast District  
7825 Baymeadows Way, Suite B-200  
Jacksonville, Florida 32256-7590  
(904) 807-3300

Copies furnished to:

Juanitta B. Clem, P.E., England, Thims & Miller  
Chris Pearson, City of Jacksonville

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this INTENT TO ISSUE was mailed by certified mail before the close of business on October 7, 2003.

**FILING AND ACKNOWLEDGEMENT**  
FILED, on this date, pursuant to §120.52 Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.  
 10-7-03  
Clerk Date



STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
NOTICE OF PROPOSED AGENCY ACTION

The Department of Environmental Protection gives Notice of its Intent to issue to Trail Ridge Landfill, Inc. a solid waste permit to continue to construct and operate the Trail Ridge Landfill, a Class I landfill. The Class I landfill disposal facility is located at 5110 U.S. Highway 301, Baldwin, Florida, in Duval County.

The Department's file on this matter is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at 7825 Baymeadows Way, Suite 200B, Jacksonville Florida.

A person whose substantial interests are affected by the above proposed agency action may petition for an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, Marjory Stoneman Douglas Building, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within 14 days of publication of this notice or receipt of the written notice, whichever occurs first. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Number(s) 0013493-010, 0013493-011 and 126289-001, and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;

(e) A statement of facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

In accordance with Section 120.573, F.S., the Department advises that mediation is not available in this case as an alternative to filing a petition for an administrative determination.



# Department of Environmental Protection

Jeb Bush  
Governor

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

David B. Struhs  
Secretary

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

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

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

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

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

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

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

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: DRAFT  
Expiration Date: November 25, 2007

This permit is issued in accordance with the permit application received September 26, 2002 and supplemented on December 16, 2002, March 17, 2003, May 16, 2003, July 10, 2003, and August 8, 2003, and includes Department Files Number 0013493-010, 0013493-011, and 126289-001.

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The Permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.987(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the Permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The Permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the Permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: DRAFT  
Expiration Date: November 25, 2007

GENERAL CONDITIONS:

7. The Permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
- (a) Have access to and copy any records that must be kept under conditions of the permit;
  - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - (c) Sample or monitor any substances or parameters at any location reasonable necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the Permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the Permittee shall immediately provide the Department with the following information:
- (a) A description of and cause of noncompliance; and
  - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to educe, eliminate, and prevent recurrence of the noncompliance. The Permittee shall be responsible for any and all damages that may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. In accepting this permit, the Permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The Permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the Permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule

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- 62-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300 F.A.C., as applicable. The Permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
  12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
  13. This permit also constitutes:
    - ( ) Determination of Best Available Control Technology (BACT)
    - ( ) Determination of Prevention of Significant Deterioration (PSD)
    - (X) Certification of compliance with state Water Quality Standards (Section 401, PL 92-500)
    - ( ) Compliance with New Source Performance Standards
  14. The Permittee shall comply with the following:
    - (a) Upon request, the Permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
    - (b) The Permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
    - (c) Records of monitoring information shall include:
      1. the date, exact place, and time of sampling or measurements;
      2. the person responsible for performing the sampling or measurements;
      3. the dates analyses were performed;
      4. the person responsible for performing the analyses;
      5. the analytical techniques or methods used;
      6. the results of such analyses.

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15. When requested by the Department, the Permittee shall within a reasonable time furnish any information required by law that is needed to determine compliance with the permit. If the Permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

#### SPECIFIC CONDITIONS:

1. The Trail Ridge Landfill shall be constructed, operated and maintained in accordance with this permit and all applicable requirements of Chapters 62-4, 62-25, 62-28, 62-522, 62-550, 62-701 and 62-730 Florida Administrative Code (FAC) and the following documents submitted in support of Department File Numbers 0013493-010, 0013493-011, and 126289-001.
  - a. **Document 1** - "Permit Documents for Trail Ridge Landfill – Second Renewal," prepared by England-Thims and Miller, Inc., and Drawing Sheets 1 through 23, and 19A, dated September 25, 2002, signed and sealed by Juanitta Bader Clem, P. E., received on September 26, 2002.
  - b. **Document 2** - "Permit Documents for Trail Ridge Landfill – First RAI Response," prepared by England-Thims and Miller, Inc., and revise Drawing Sheets 9A, 11 through 15 and 21, dated December 13, 2002, signed and sealed by Juanitta Bader Clem, P. E., received on December 16, 2002.
  - c. **Document 3** - Permit Documents for Trail Ridge Landfill – Second RAI Response," prepared by England-Thims and Miller, Inc., and revised Drawing sheet 4, dated March 17, 2003 signed and sealed by Juanitta Bader Clem, P. E., received on March 17, 2003.
  - d. **Document 4** - Permit Documents for Trail Ridge Landfill – Third RAI Response," prepared by England-Thims and Miller, Inc., and revised Drawing sheet number 7, dated May 15, 2003, signed and sealed by Juanitta Bader Clem, P. E., received on May 16, 2003.
  - e. **Document 5** - Trail Ridge Landfill – Second Permit Renewal – Fourth Request for Additional Information" response to comment 19, prepared by England-Thims and Miller, Inc., dated July 11, 2003, signed and sealed by Juanitta Bader Clem, P. E., received on July 10, 2003.

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- f. **Document 6** Trail Ridge Landfill – Second Permit Renewal – Revision to Fourth Request for Additional Information” revision to response to comment 19, prepared by England-Thims and Miller, Inc., August 8, 2003, signed and sealed by Juanitta Bader Clem, P. E., received on August 8, 2003.

**The following documents are incorporated by reference.**

- g. **Document 7** - “Permit Documents for Trail Ridge Landfill - Operation and Construction Renewal,” prepared by England-Thims and Miller, Inc., dated October 28, 1996, signed and sealed by Juanitta Bader Clem, P. E., received on October 28, 1996;
- h. **Document 8** (formerly Document 3) - “Trail Ridge Landfill - Landfill Gas Management System Design and Engineering Calculations,” dated November 1996, prepared by Rust Environment and Infrastructure, signed and sealed by Thomas M. Yanoschak, P. E., received November 19, 1996; and Corrected Drawing Number P1, received October 9, 1997, signed and sealed by Thomas M. Yanoschak, P. E.

**NOTE: The above listed documents are referenced in this permit by document numbers.**

2. A copy of the Department approved engineering drawings, plans, reports, operation and contingency plans, all revisions and supporting information as well as a copy of this permit shall be kept at the Trail Ridge Landfill office at all times for reference and inspections.
3. **Other Applicable Permits.** Receipt of any permits from the Department does not relieve the applicant from obtaining other federal, state, and local permits required by law including those of the Suwannee River Water Management District.
4. **Other Regulatory Requirements.** If any other regulatory agency should require revisions or modification to the permitted project, the Department is to be notified of the revisions so that a determination can be made whether a permit modification is required.
5. **Transfer of Permit.** The Department must be notified, in writing, using DEP Form Number 62-701.900(8), within thirty (30) days of any sale, conveyance, or other transfer of the facility or within thirty (30) days of any transfer of ownership or control of the real property at which the facility is located. All transfers of ownership or transfers of a permit are subject to the requirements of FAC Chapter 62-4. In addition, permit transfers shall comply with the requirements of Rule 62-701.320(11), FAC.



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6. **Permit Renewal.** Pursuant to FAC Rule 62-4.090, by May 24, 2011 (DATE) the Permittee shall apply for a renewal of the permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five (5) years as required by FAC Rule 62-701.330(2).
7. **Notification in Case of an Emergency.** The Permittee shall immediately notify the Department by telephone whenever a serious problem occurs at the facility including a fire or other emergency, which poses an unanticipated threat to the public health or the environment. During regular business hours, notification shall be made to the Northeast District Office at (904) 807-3300. If an emergency occurs outside regular business hours, the Permittee shall telephone the 24-hour emergency phone number (800) 320-0519. This number is for emergencies only. Within seven (7) days of any emergency, the Permittee shall submit to the Department, a written report explaining the extent of the problem, the cause, and what actions have been or will be taken to correct the problem, or prevent its recurrence.
8. **Provisions of Temporary Source of Potable Water.** The Permittee shall provide a temporary source of potable water within seven (7) days and a permanent safe drinking water supply within 180 days of discovery of contamination to replace any potable water well that is shown by chemical and hydrogeologic analysis to be contaminated by the facility. This temporary source of water shall meet all drinking water standards set forth in FAC Chapter 62-550 and shall be provided at the Permittee's expense.
9. **Design Elevations and Annual Survey.** The maximum design elevation for the Trail Ridge Landfill is elevation 350.6 ft. MSL. This maximum specified elevation shall include the final cover system. A survey of the waste disposal areas shall be conducted by July of each year until it is within ten (10) feet of the maximum design elevation, after which the survey shall be conducted quarterly. This information is to be submitted to the Department within thirty (30) days of conducting the survey and shall include the maximum existing elevations, all points designed for terraces and the location of the toes of the sideslopes.
10. **Financial Assurance.** The Permittee shall maintain, in good standing, the financial assurance mechanisms established to demonstrate proof of financial assurance. Support documentation and evidence of inflation adjustment increases shall be submitted within the time frames specified in Rule 62-701.630, FAC. All submittals in response to this specific condition shall be sent to: Financial Coordinator, Solid Waste Section, Florida Department of Environmental Protection, Mail Station Number 4565, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. The Permittee shall file with the Department a signed duplicate of the escrow account

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

11. **Annual Cost Estimates.** The Permittee shall annually adjust the closure cost estimate for inflation using Form 62-701.900(28). Adjustments shall be made in accordance with Rule 62-701.630(4), FAC and 40 CFR Part 264.142(a) and 264.144(a). An owner or operator using a letter of credit, guarantee bond, performance bond, financial test, corporate guarantee, trust fund or insurance shall submit the adjusted cost estimate between January 1 and March 1. An owner or operator using an escrow account shall submit the adjusted estimate between July 1 and September 1 of each year. Closure costs shall include an annual estimate of the remaining life and capacity in cubic yards of the existing constructed landfills, and the remaining capacity and site life of other permitted areas not yet constructed. All submittals in response to this specific condition shall be sent to: Solid Waste Supervisor, Florida Department of Environmental Protection, 7825 Baymeadows Way Suite 200 B, Jacksonville, Florida 32256-7590 with a copy to: Financial Coordinator, Solid Waste Section, Florida Department of Environmental Protection, Mail Station Number 4565, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.
12. **Use of closed landfill areas.** Pursuant to FAC Rule 62-701.610(7), the Department retains regulatory control over any activities that may affect the integrity of the environmental protection measures such as the monitoring system and stormwater controls. The Permittee shall consult with the Department prior to conducting any activities on the landfill other than the activities proposed in the permit application.
13. **Closure permit requirement.** At least 90 days before the date when waste will no longer be accepted at the Class I landfill, the Permittee shall submit a closure permit application to the Department for review and approval. The application shall be on the appropriate form DEP Form No. 62-701.900(1), and shall include all of the required information.
14. **Active Gas Collection System.**
  - a. **Authorization and Permits.** This permit authorizes Trail Ridge Landfill to construct and operate an active gas collection system. However, the Permittee shall be responsible for obtaining all other necessary permits for the construction and operation of the active gas collection system. All requirements of FAC Chapter 62-701, the New Source Performance Standards (NSPS) for Municipal Solid Waste Landfills (40 CFR 60.756), FAC Rule 62-296, 40 CFR 60.18, and all applicable Department regulations, shall apply to the proposed active

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gas collection system. The active gas collection system and all associated structures and systems shall be constructed in accordance with Document 8 (formerly Document 3 including the revisions to the QA/QC plan for the gravel and the gas well plugs, dated May 8, 1997), manufacturer's specifications and standard industry practices, as amended by Documents 1, 2, 3 and 4, and by this specific condition. Installation of the active gas collection system shall be as required by the NSPS for Municipal Solid Waste Landfills and shall proceed in phases as sections of the landfill are brought up to final grade and elevations. The permanent active gas collection system shall be installed in phases. Portions of the system shall be constructed during each closure construction phase, as reflected on drawing sheet numbers 14 and 15, "Closure Phasing Plan," of Document 2. The final permanent gas collection system including header pipes shall be installed during the final closure construction phase and shall be constructed as reflected on Drawing sheet number 9A, Document 2 and placed into operation. Interim wells may also be installed in areas that have not achieved final grades in order to allow for immediate gas collection until the permanent wells are installed or until the final grades are reached. Passive flares, as shown on Drawing Number P6 of Document 8, (formerly Document 3), may be installed over proposed and existing gas wells prior to start up of the active gas collection system.

- b. **Associated Structures.** The blower, flare station and the 5 condensate knockout units shall be constructed as shown on Drawing Number P1 (Corrected Page) and the Gas Management Plan of Document 8 (formerly Document 3). Upon completion of the active gas collection system, approximately 73 gas extraction wells, which extend approximately 10 feet from the bottom liner system, will be installed at the landfill. A unique identification number shall be assigned for each gas extraction well. The location and installation of the gas extraction wells, headers and lateral alignment and liquid management facilities may slightly vary to accommodate landfill field slope.
- c. **Construction Certification.** Upon completion of the active gas collection system, the Permittee or authorized representative, shall complete and submit to the Department, DEP Form 62-701.900(2), "Certification of Construction Completion of a Solid Waste Management Facility." In addition, the professional engineer in charge of construction quality assurance shall certify that the active gas collection system has been constructed in substantial conformance with the plans and project specifications and shall provide a signed and sealed final construction quality assurance report, record documentations (including well construction logs) and record drawings to the Department. At such time, the Permittee shall arrange for Department representatives to inspect the construction of the active gas collection system in the company of the Permittee, Project Engineer and the landfill operator. The active gas collection system shall not be operated until the Department has notified the Permittee, in

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writing, that all required documents related to the construction have been submitted and determined acceptable. Prior to activating the system, the **Permittee shall also obtain authorization from any other applicable agency.**

- d. **Gas Condensate Testing.** Gas condensate shall be tested semi-annually for Toxicity Characteristics Leaching Procedure (TCLP) parameters with the results submitted to the Department no later than June 30 and December 31 of each year commencing from the year the active gas collection system's construction has been approved by the Department and becomes operational. For each sampling event, a sample shall be taken from the condensate pump station and analyzed. The sampling location may be modified upon obtaining Department approval. Should the results of the TCLP analyses exceed regulatory standards, the Permittee may be required to modify the system to collect and isolate the gas condensate from the landfill's leachate collection system.
  - e. This permit does not authorize gas recovery at the Trail Ridge Landfill.
  - f. During the construction of the active gas collection system in areas where final cover has been installed, i.e., completed side slope units, the Permittee shall ensure that the final cover system is restored back to the original project closure construction specifications and in accordance with the QA/QC plan. These activities shall be documented and shall be submitted as part of the reporting requirements specified in Specific Condition No. 14c above.
  - g. The facility shall inspect the sufficiency of the temporary header pipes and wells, especially in areas of settlement. If discovered to become inoperable, the Permittee shall sever the temporary header from the header system and abandon it. A new header pipe shall be installed to connect the gas wells to the vacuum system. Temporary wells may be extended vertically, as waste is placed around them. If a temporary well is abandoned, it shall be grouted full, cut at least 18 inches below ground surface, and covered with a minimum of 18 inches of clean fill.
15. **Hours of Operation.** The Permittee shall operate the Trail Ridge Landfill in accordance with this permit, FAC Rule 62-701; the documents (unless otherwise specified) referenced in Specific Condition Number 1 of this permit, and all applicable Department rules. The normal operating hours for the facility shall be from 6:00 A.M. to 7:00P.M., Monday through Friday, and from 6:00 A.M. to 1:00 P.M. on Saturdays. Depending on the waste receipt rate, these normal operating hours may be extended from 5:00 A.M. to 10:00 P. M. During emergency situations, i.e., after a hurricane, the facility may operate beyond these specified hours; however, the Department

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shall be notified, at the first available opportunity, of the extended hours. If landfill operations commences before daylight or extends beyond non-daylight hours, the Permittee shall illuminate the working face and unloading area with a minimum intensity of 3 foot-candles, to ensure proper waste screening. The facility's lighting equipment shall be kept and maintained at the site. The Permittee or the landfill operator shall be responsible for ensuring that adequate staff to cover all shifts and equipment are available at the facility to maintain proper landfill operations.

16. **Operating Personnel.** As required by FAC Rule 62-701.500(1), at least one (1) trained operator shall be present at the landfill during all times when the landfill receives waste. Trained operators are those who satisfy the definition provided in FAC Rule 62-701.200 (89) and who satisfy the requirements of Chapter 62-701.320(15) for both initial and continued training. Also, at least the minimum number of spotters listed in the matrix "Trail Ridge Landfill Evaluation of Personnel Requirements," contained in Attachment A of Document 4, for the corresponding waste amounts shall be provided at the working face at all times the facility is operating. The spotters shall satisfy the definition provided in FAC Rule 62-7-1.320(15)(h)) and shall satisfy the training requirements of Chapter 62-701.320(15) for both initial and continued training.

Training Certifications shall be kept on site and shall be made available to the Department at the Department's request including during a routine site inspection. The Department suggests that the Permittee contact the Department or visit the TREEO Center web site, to ensure the course selected for training is still valid for the facility and position requiring training

In addition to the trained operators and spotters the Permittee shall provide the other minimum personnel listed in the said aforementioned matrix and the equipment required pursuant to specific condition number 17 for the corresponding waste amounts. For example, if the facility is accepting 3,499 tons of waste or less a day there shall be, as a minimum, in addition to 2 trained spotters, 2 day laborers and 2 equipment operators, for a minimum total of 6 people, during the times of 6:00 a.m. to 7:00 a.m. Also for the same amount of waste during the peak hours of 10:00 a.m. to 3:00 p.m. the same minimum personnel shall be provided. The laborers shall spot waste and remove prohibited waste under the direction of a trained spotter stationed at the working face.

17. **Landfill Equipment.** The on-site equipment shall consist of: three (3) compactors and 2 dozers at a minimum. If the waste receipt rate exceeds 1300 tons per day, the Permittee shall provide two (2) compactors at the working face; if the waste receipt rate exceeds 2600 tons per day, three (3) compactors shall be provided at the working face. The Permittee shall ensure that sufficient reserve equipment are available or arrangements to obtain additional equipment within 24 hours of

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equipment breakdown have been made.

18. **Maximum Daily Tonnage.** Provided the minimum equipment per specific condition number 17 and personnel listed in the matrix "Trail Ridge Landfill Evaluation of Personnel Requirements," contained in Attachment A of Document 4 for accepting 5000 tons of waste, i.e., a minimum of 2 trained spotters, 3 laborers and 4 equipment operators, for a minimum of 9 people, the facility may accept up to, but no more than, 5000 tons of solid waste during any one maximum working day. As an exception more waste may be accepted if during an emergency situation, i.e., after a major storm event, in which case, special accommodations are made to handle additional volume of solid waste.
19. **Fill Phasing Plan.** The facility shall be operated and closed in phases. The sequence of fill operations at the Trail Ridge Landfill shall be in accordance with the "Fill Phasing Plan," reflected on Drawing Sheet Numbers 11, 12, and 13 (Fill Phase 7 through Fill Phase 14). Waste filling operations in each phase shall generally proceed from east to west. The facility shall place waste in conduct operations in a manner to prevent the ponding of leachate in waste, the mixing of leachate with stormwater, and the running off of leachate into the stormwater system. As the areas are filled during operations, they shall be closed in accordance with the "Closure Phasing Plan" reflected on drawing sheet numbers 14 and 15 of Document 2, referenced in Specific Condition Number 1. The facility shall conduct the phased closures in accordance with specific condition number 41. The Permittee shall conduct on site surveying during operations to ensure the design elevations and grades are met yet not exceeded, and to ensure that the closure construction is provided at the correct elevations. The surveying shall be conducted pursuant to response number 59 of Documents, 2, 3 and 4.
20. **Monitoring of Waste.** Pursuant to FAC Rule 62-701.500(6), the Permittee shall implement a load-checking program to detect and discourage attempts to dispose of unauthorized wastes at the landfill. The load-checking program shall consist of the following minimum requirements:
  - a. The landfill operator shall examine at least three (3) random loads of solid waste delivered at the landfill each week. The waste collection vehicle drivers selected by the inspector shall be directed to discharge their loads at a designated location within the landfill. A detailed inspection of the discharged material shall be made for any unauthorized wastes.
  - b. If any unauthorized wastes are found, the facility shall contact the generator, hauler, or other party responsible for shipping the waste to the landfill to determine the identity of the waste resources.

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- c. **Recording Inspection Results.** Information and observations resulting from each random inspection shall be recorded in writing and retained at the Trail Ridge Landfill office for at least three (3) years. The recorded information shall include, at a minimum, the following:

1. The date and time of the inspection;
2. The names of the hauling firm and driver of the vehicle;
3. the vehicle license plate number;
4. the source of the waste, as stated by the driver; and
5. observations made by the inspector during the detailed inspection.

The written record shall be signed by the landfill inspector and shall be made available to Department representatives during inspections.

21. **Waste Inspection at the Working Face.** Every load shall be inspected by a spotter for unauthorized waste as it is being unloaded and as it is being spread prior to disposal. Solid waste shall not be compacted unless the solid waste has been completely inspected. The landfill operator shall be responsible for providing additional spotters during peak hours or when the waste receipt rate is more than what the spotter(s) at the working face can adequately inspect. Any prohibited waste shall be removed to the appropriate designated temporary storage location and removed to a facility authorized to accept it.
22. **Prohibited Wastes and Liquid Restrictions.** Unacceptable waste, including, but not limited to white goods, waste oil, yard waste, whole tires and lead acid batteries shall not be disposed of at the Class I landfill. Special waste accepted at the facility shall be stored in the respective designated areas until removal, which shall be on an as-needed basis and as specified in this permit, but no less than once a year. Additionally, liquids shall not be disposed of in a manner that would violate the liquid restrictions of FAC Rule 62-701.300(10).
23. **Handling and Removal of Hazardous Waste.** Loads containing hazardous waste shall be rejected. Loads containing hazardous waste that are inadvertently discharged at the working face, upon discovery shall be removed from the working face and managed in accordance with the applicable local, state and federal regulations. Facility personnel should handle all hazardous waste, as defined in 261.3(a)(1) of Title 40 Code of Federal Regulations (40 CFR), that is discovered at the facility in accordance the requirements set forth in Section 261.5 of 40 CFR. If at any time hazardous waste is inadvertently accepted at the facility, the Permittee shall notify Department solid waste and hazardous waste sections of the incident by the end of the work day or if after Department office hours by the next Department work day. Additionally, the Permittee shall provide, within seven days of the incident, a written report addressing the incident including

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how the waste was and is being managed and an assessment of the extent of contamination. The Permittee shall follow the procedures provided in Document 2, response 10 and as amended by this specific condition and as may be amended by any local, state, and/or federal regulations. The Permittee shall delineate in the field and record in logs the extent of contamination by the hazardous waste materials. The Permittee shall remove the waste to a facility authorized/permitted to accept it and shall remove it as soon as possible, and within a time frame that will not exceed 30 days from the date of discovery. The Permittee shall record the incident in logs and shall include in the logs the identification of the facility to where the materials were removed. Said records shall be made available to the Department upon request. Finally, facility personnel shall be familiar with the plan and shall have the plan readily accessible on site.

24. **Asbestos Disposal.** Asbestos disposal shall be in accordance with FAC 62-701.520(4) and all applicable rules and regulations. Regulated asbestos waste shall only be disposed of in a designated asbestos disposal area while an authorized, qualified landfill employee, supervises the activity. Signs shall be posted identifying the designated asbestos disposal area. Each disposal location shall be recorded in accordance with 40 CFR Part 61.154 and records shall be maintained at the facility. Asbestos waste shall immediately be covered with either one-foot of clean soil or three feet of solid waste which does not contain asbestos, with a minimum of six inches of daily cover.
25. **White goods.** Any white goods discovered at the working face shall be removed from the waste stream upon discovery. The white goods may be placed near the working area within lined area until removal to the 30 cubic yard roll off container, designated for white good storage only, which shall be by the end of the work day. The roll off containers shall be maintained on a paved area, at the location reflected on Drawing Sheet No 4, "revised Site Plan," contained in document 3. White goods shall be removed from the site on a minimum quarterly basis and more frequent as needed. White goods, which may contain chlorofluorocarbons (CFCs) such as Freon, shall be stored and managed in a manner such that CFCs are not discharged to the environment.
26. **Batteries.** Batteries shall be stored in the concrete storage area and on pallets. Facility personnel shall prevent rainwater from collecting in the storage area to the point where the water is in contact with the batteries. To that end, facility personnel shall check the water level in the storage area at least once each week and after any heavy rain events. In the event, more water is collecting than evaporating, the facility shall pump out the liquid and manage and treat it as leachate. At no time shall any battery be stored directly on the ground. Batteries shall be removed from the site on a minimum quarterly basis and more frequent as needed.



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### **27. Waste Tire Processing Facility.**

- a. **Authorization.** This permit authorizes Trail Ridge Landfill to operate a waste tire processing facility on a parcel of land south of the non-contract drop off area and east of the operations building. Storage of waste tires and the operation of the waste tire processing facility shall be in accordance with FAC Rule 62-711.
- b. **Storage Limits.** The maximum number of whole waste tires the Permittee may store on site at any one time is 10,000 tires or approximately 100 tons. Each storage pile shall be no more than 10,000 square feet in area, 50 feet in width, and 15 feet in height. The limits of the waste tire storage area shall be appropriately marked to ensure that all waste tires are stored within these limits. Tires may only be stored on the paved impervious surface of the waste tire storage area. The facility shall also maintain the existing curb to contain, within the paved tire storage area, any potential liquid residue from a tire fire. Any liquid tire fire residual shall be managed in accordance with any applicable local, state or federal regulations. Additionally, a 50-ft. wide fire lane shall be maintained around the perimeters of each waste tire pile. Access to the fire lane for emergency vehicles must be unobstructed at all times.
- c. **Processed Waste Tires.** At least 75 percent of the waste tires and processed tires that are delivered to or are stored at the facility at the beginning of each calendar year shall be processed and disposed of on site or transported off-site to a permitted facility for recycling or disposal. The temperature of any aboveground piles of compacted, processed tires over 8 feet high shall be monitored and may not exceed 300 degrees Fahrenheit. Temperature control measures shall be instituted so that pile temperatures do not exceed 300 degrees Fahrenheit. Temperature monitoring and controls are not required for processed tires disposed of in the landfill. If waste tires will be disposed of at the landfill, the tire must be cut into at least 8 substantially equal pieces. Processed tires disposed of at the landfill, which does not meet the size requirement of FAC Rule 62-711.400(3)(a) for initial cover, must receive initial cover as defined in FAC Rule 62-701.200(59), which is once every week.
- d. **Annual Fire Safety Survey.** The Permittee shall submit, by December 31 of each year, an annual fire safety survey report for the waste tire processing facility.
- e. **Waste Tire Processing Facility Quarterly Report.** The Permittee shall by the 20th of the month following the close of each calendar quarter, provide the information required pursuant to FAC Rule 62-701.711(530)(5) including completed DEP Form # 62-711.900(21).

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- f. **Additional Recording Requirements.** The Permittee shall record and maintain for three (3) years, the information required in FAC 62-711.530(4)(a thru c) and FAC 62-711.530(5)(a through g) and shall be made available to the Department upon request.
  - g. **Closing.** Facility shall follow the plan for closing waste tire storage area provided in Document 2, response item 67j, and shall also provide receipts from the facilities to where the waste tires and any residuals are sent to during closure. All tires and residuals shall be removed within 30 days of last waste receipt date, which shall be recorded in logs and the logs provided to the Department at its request.
28. **Waste Quantity Reports.** The facility shall record the amount, in tons, of waste received at the facility each day and shall also estimate and record the amount of the following types of waste received each day: residential, commercial, treated biohazardous waste, water treatment sludge, agricultural, construction and demolition debris, waste tires, industrial, industrial sludge and domestic sludge and non-hazardous special waste. The waste reports shall be compiled monthly and shall be provided to the Department by April 15, July 15, October 15 and January 15 of each year of this permit.
29. **Litter and Dust Control.** The facility shall be inspected for litter on a daily basis. Any litter discovered outside the working face shall be collected and appropriately disposed of by the end of each workday. The facility shall control dust at the facility. A water truck shall be used to control dust. Either potable water or water from an onsite uncontaminated wet detention pond may be used in the effort. The water truck should not be used for any other material, i.e., leachate.
30. **Initial Cover Requirements.** Initial cover shall be applied at the end of each workday over the entire working face. Initial cover, consisting of suitable soil, shall be placed at a minimum depth of 6 inches after placement. For those areas where waste will be deposited within 18 hours, initial cover such as the following geotextile materials may be utilized as initial cover: Fabrene Type TG Product G168 and Nicholon Baycor Style 27600. However, these temporary covers shall not be utilized if obvious signs of deterioration of the materials are observed. Other equivalent geotextile materials may be utilized upon receiving a written authorization from the Department. For portions of the working face not completely covered by the tarpaulin, the 6-inch initial soil cover requirement shall be applied at the end of the working day. During periods when tarpaulin has been utilized at the working face from Monday through Saturday, the 6-inch soil cover requirement shall be applied before the close of business on Saturday.

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Shredded waste tires that are shredded in accordance with FAC Rule 62-711.400(3)(a), i.e., 70 percent of the waste tire material is cut into pieces of 4 square inches or less and 100 percent of the waste tire material is 32 square inches or less, may be used at the working face on condition the material is restricted to the interior slopes. Shredded material may be stored on top of the landfill in the vicinity of the working face on interior slopes, prior to use. This permit does not authorize the storage or use of the material outside the lined footprint or on exterior sideslopes.

This permit does not authorize the use of ash residue or any other material not indicated in this condition for initial cover material. As an exception the Permittee may use contaminated soil as initial cover if it receives written approval to, per the following specific condition number 32.

31. **Cover and Intermediate Cover.** An intermediate cover, in addition to the six-inch initial cover, shall be applied and maintained within seven (7) days of cell completion if additional solid waste will not be disposed of within 180 days of cell completion. The Intermediate cover may consist of a soil/mulch mixture that consists of no more than 50% mulch. However, if it consist of the soil/mulch mixture it shall be a minimum of 16 inches thick and shall be removed prior to construction of the final cover system and shall be replaced with an intermediate cover consisting of a minimum of 12 inches of uncontaminated soil with no mulch. The intermediate cover shall be appropriately maintained to prevent erosion and waste exposure.

32. **Contaminated Soil and Slag for disposal or reuse.**

- A. **Contaminated Soil for disposal or reuse, onsite storage and records.** The facility prior to utilizing any contaminated soil for disposal or reuse, i.e., initial cover, shall request to in writing, provide analytics of the material from a Florida certified laboratory at a minimum, and obtain the Department's written approval. Only material that is demonstrated to be below the commercial/industrial exposure levels of FAC Chapter 62-777 or any other applicable level may be utilized at the facility.

Contaminated soils which the facility receives the Department's written approval for use as initial cover, if stored on site prior to use, shall be stored in accordance with comment 14 of Document 3 and as amended by Document 4 and as modified by this permit.

- The material shall be stored within the liner footprint on top of areas where intermediate cover is in place and within the phase areas as proposed in Document 3 and shall not be stored in a manner that will disrupt operations. More specifically, until operations are initiated in Phases VA & VB, the soil shall be stored on top of those phases in accordance with Attachment 6. When filling operations proceed into those phases, (Fill Phase 8 on Drawing sheet no 12 provided with Document 2) then the soil shall be

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stored on top of Phases IVC and VC until filling operations proceed in those phases, in accordance with said Attachment 6.

- The material shall be stored in a manner to prevent any runoff from the area to the surface water management system. Stockpiles shall be located at a minimum of 20 feet away from any side slope and silt fencing shall be installed around the base of the stockpile, except for access locations;
- Material for which the facility has not yet obtained the department' approval for use shall be stored separate from that which has received approval. Signs shall be posted designating and differentiating the area of approved piles from that of unapproved piles.
- The Permittee may store unapproved material at the facility for a maximum of 60 days without obtaining approval. If the Permittee has not received approval within the 60 days, the material shall be removed for disposal/treatment at a facility authorized to dispose/treat it.
- Signs shall be placed at the stockpile area indicating the piles identification code as assigned to it in the record logs. Also signs shall be provided designating that the soil once approved, is to be used for initial cover on interior slopes only.

**Records.** The facility shall keep records on the material received. The Permittee shall establish and maintain an identification code system for identifying the material received. This code shall be indicated in the record logs. Also in the logs, the source from where a material is received, the amount of material received, and the receipt date shall be recorded. Furthermore, the Permittee shall record in the logs the amount used for cover and the location of the placement. These records shall be kept on site and made available to the Department at the Department's request.

- B. **Slag reuse.** This permit does not authorize slag to be placed or used outside the liner limits with one exception: the slag approved in Attachment 7 (AmeriSteel Slag) may be used for stabilization of areas at the facility, such as parking lots, on condition the material is managed in accordance with Attachment 7. Other slag, if the slag is not hazardous waste, may be used for access road stabilization within the liner limits. The Facility shall record in logs the source from where slag is accepted and the location where slag from a specific source is used. Prior to utilizing slag from other sources at the facility outside the liner limits the Permittee shall pose the request in writing for a permit determination.
33. **Wet Weather Area.** The wet weather area shall be within the lined footprint disposal area and on an interior slope. The facility shall implement measures to prevent leachate from ponding within the waste area yet prevent it from running off. The area shall be graded to prevent leachate from the wet weather area from running off and potentially mixing with and entering into the surface water management system. Measures shall be implemented to also prevent runoff from

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surrounding areas from running onto the wet weather area. The wet weather area shall have either initial or intermediate cover the facility shall apply either initial cover or tarp approved by specific condition number 30 of this permit to the wet weather area at the end of the workday. Waste disposal activities shall cease during heavy storm events including but not limited to hurricanes.

34. **Inspections.** The Permittee shall inspect the active areas on a weekly basis and the closed areas at a minimum on a monthly basis, and both areas after major storm events. The leachate collections system and gas collection system shall be inspected at a minimum on a weekly basis. The inspector shall observe the facility for the items and conditions listed in the checklist provided in Attachment F, Document 4, at a minimum. Eroded areas shall be repaired to completion within 3 days of discovery of the erosion. Other insufficiencies shall be repaired to completion within seven days of discovery of the insufficiency except where other wise indicated by other specific condition to this permit.

35. **Gas Monitoring Probes.**

- a. **Gas Monitoring Requirement.** The Permittee shall take measures to prevent explosions and fires, and to minimize off-site odors, lateral migration of gases and damage to vegetation. Compliance gas monitoring wells/probes (GP) GP-6, GP-7, GP-8, GP-9, and GP-10, and compliance gas monitoring locations, (GM), GM-01 through GM-05, reflected on Attachment 8 and any other onsite structures, shall be properly monitored on a quarterly basis throughout the duration of this permit unless the Department approves otherwise. Quarterly gas monitoring shall be conducted by March 31, June 30, September 30 and December 31 of each year of this permit. Combustible gas meters shall be calibrated to methane. The Permittee shall record these gas-monitoring results and shall submit a summary report to the Department within 15 days of the monitoring event. The routine gas-monitoring program shall monitor concentrations of combustible gases at ambient monitoring points and in gas monitoring wells. The concentration of combustible gases generated by the landfill shall not exceed 25% of the lower explosive limit (LEL) for combustible gases in structures on- or off-site, excluding gas control or recovery components. Additionally, the LEL for combustible gases shall not be exceeded at or beyond the landfill property boundary or in a compliance gas monitoring well/probe. The Permittee may be subject to more frequent monitoring based upon the Department's review of these data results. The wells' locations are depicted on Attachment 8.
- b. **Gas Remediation.** If, during a monitoring event, the results show that combustible gas concentrations exceed the lower explosive limit at the property boundary and/or at a compliance gas monitoring well/probe, i.e., GP-6 through GP-10, or if 25% of the LEL is

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exceeded within a structure or at a gas monitoring location, i.e., GM-01 through GM-05, the Permittee shall immediately take all necessary steps to ensure protection of human health and notify the Department, by telephone, of the violation within seventy-two (72) hours of the time that the violation is first discovered. Within seven (7) days of detection, the Permittee shall submit a report addressing the nature and extent of the problem. The report shall also include a proposed remedy for approval. The remedy shall be completed within sixty (60) days of detection unless otherwise approved by the Department.

- c. **Odor Remediation Plan.** The facility shall be operated to control objectionable odors in accordance with Rule 62-296.320(2), FAC. If gas concentrations cause objectionable odors beyond the landfill property boundary, the Permittee shall implement a routine odor monitoring program to determine the timing and extent of any off-site odors; and if the monitoring program confirms the existence of objectionable odors, submit to the Department for approval an odor remediation plan for the gas releases. The plan shall describe the nature and extent of the problem and the proposed remedy. The remedy shall be initiated within 30 days of approval.
- 36. **Gas Monitoring Well Maintenance.** Gas monitoring probes (GP) 6 through 10 shall be maintained at the locations shown in Attachment 8 (found in Document 1, Appendix F). The integrity of the gas monitoring system shall be inspected, at a minimum, during the quarterly monitoring event. Should the well be found damaged, the Permittee shall repair or replace the damaged gas monitoring well(s) within sixty (60) days of discovery and shall repair it in accordance with the original design, "Permanent Gas Probe Detail," as reflected in Appendix H of Document 7 (formerly Document 1). Within thirty (30) days of completion of repair or replacement, the professional engineer or professional geologist in charge of installation, shall submit a gas monitoring well/probe construction completion report to the Department, which shall include boring logs.
- 37. **Contingency Operations.** Prior to the imminent threat of a natural disaster (i.e., hurricane or tornado), flooding and fire, the following procedures (at a minimum) shall be implemented:
  - a. Initial soil cover shall be applied and compacted to all exposed solid waste;
  - b. All landfill equipment shall be fueled and parked near natural wind screens, earthen mounds or tree areas; and
  - c. All lightweight signs and equipment shall be secured.

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- b. In the event a hot load is received or a fire occurs at the facility, the Permittee shall follow the procedures addressed on page 30 of section VIII "Operation Plan" found in Document 1 as amended by comment 65 of Documents, 2, 3 and 4 to control and extinguish the fire. The local fire Department shall be contacted when needed. Fire hydrant(s) shall be maintained at the facility. The facility shall notify the Department of the fire. Additionally, the facility shall cease accepting waste in the event of a fire at the working face and shall not recommence waste acceptance activities until the fire is extinguished or the Permittee obtains authorization to, from the Department.

### **38. Leachate Management.**

- a. Leachate shall be managed in accordance with FAC Rule 62-701.500(8) and the applicable information submitted in the references listed in Specific Condition No. 1 and as amended by this permit.
- b. **Action Leachate Leakage Rate.** The Permittee shall monitor the amount of leachate collected at the facility. The level in and flow of leachate from both the leachate collection and detection sumps shall be monitored by means of a bubbler sensor and a manometer at the control panel for each pump station. The amount of leachate pumped from each primary leachate collection system (PLCS) and each secondary leachate detection system (LDS) at each sump shall be measured by a flow meter located inside the vault box for each the PLCS and LDS as reflected on Drawing sheet number 18, Document 1. The quantity of leachate collected from the leachate collection and removal system (LCRS) and the leachate detection system (LDS), shall be recorded in gallons on a daily basis, Monday through Friday at a minimum, and any other day the facility is operating, at a minimum. The action leachate leakage rate (ALLR) for the facility is 4,492 gallons per cell per day. If 4,492 gallons or more is detected in the secondary leachate collection/detection system (LDS) of a cell on any one day, the Permittee shall notify the Department of the situation within 24 hours by telephone and in a written report within 7 days of discovery of the exceedance. The report shall include a description and assessment of the situation, proposed remedial actions and a schedule for commencing and completing the remediation. A cell is defined as the area served by a pump station and is reflected on Drawing sheet number 7, provided with Document 4. The smallest cell is 17.7 acres.
- c. **Backflow prevention.** To aid in preventing back flow into the system, if the level in a sump exceeds 3.5 feet, (the sump is recessed 3.5 below the base of the landfill and is double lined) an audio and visual alarm shall sound at the control panel for the pump station. The Permittee

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shall remedy the situation if this level is exceeded and shall follow the procedures and provide the reports required for the exceedance of the ALLR.

- d. **Pump stations and flow meter maintenance.** The Permittee shall maintain the pump stations and their associated components, including the pumps, measuring and monitoring devices, and shall ensure that they are operational. At each pumping station, two pumps (one for the collection system and another for the detection system) shall be maintained. Pumps shall be operated in automatic mode and in a manner that will prevent leachate from collecting in a sump beyond its design level, backing up into the system, or discharging to the environment. If a pump is taken out of service or manually shut down, a replacement pump shall be provided in its place. The facility shall maintain the visual and audible alarms so that they will alert the facility in the event the allowable leachate level in a sump is exceeded. If alerted the facility shall provide a backup pump, record the flow of leachate, investigate the situation and implement remedial actions if warranted. The facility shall maintain at least one backup pump onsite and shall install it or other pump equivalent to the design pumps within the same day a pump is discovered to be insufficient and/or taken out of service for maintenance or repairs. Pump stations are located on the east side of the landfill and the system is designed so leachate will flow from east to west. There are 8 pump stations. The pump stations and the areas they serve are as follows:
- |   |  |
|---|--|
| Pump station 1A – Phases 1A and II A    | Pump station 1B – Phases 1B and II B     |
| Pump station 1C – Phases 1C and II C    | Pump station IIIA – Phases III A and IVA |
| Pump station IIIB – Phases IIIB and IVB | Pump station IIIC – Phases IIIC and IV C |
| Pump station VA – Phases VA and VC      | Pump station VB – Phases VC and VD       |

A backup pump shall be maintained on site to temporarily replace one in the event it is taken out of service for repairs, maintenance etc.

- e. **Leachate and Precipitation Comparison.** The Permittee shall maintain a recording rain gauge and shall compare the recorded precipitation rates to the leachate generation rates. Leachate generation reports shall be compiled monthly and submitted to the Department by January 15, April 15, July 15 and October 15 of each year. Leachate generation reports shall include the daily precipitation amounts, the quantities of leachate collected from the LCRS and LDS, and the amount of leachate transported to the wastewater treatment facility. The report shall include a breakdown of the amount of leachate that is collected from the LDS each day, and not only include the totalizing amount.



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- f. **Leachate Treatment.** Leachate collected from the landfill shall be transported to the Buckman Wastewater Treatment Facility. The owner or operator shall obtain approval from the Department prior to disposing leachate to another wastewater treatment facility.
  - g. The overflow prevention system and the exposed exterior of all leachate storage tanks shall be inspected weekly. If the inspection reveals a tank or equipment deficiency, leak, or any other deficiency that could result in failure of the tank to contain the leachate, remedial measures shall be taken immediately to correct the deficiency. Inspection reports shall be maintained and made available to the Department upon request for the lifetime of the liquid storage system.
  - h. Sludge or solids taken from the leachate storage tanks, whenever the storage tanks are drained for routine maintenance, inspections, or repair, shall have a hazardous waste determination performed for metals and organics in accordance with 40 CFR 262.11 and FAC Rule 62-730.160. The sludge and solids shall be disposed of in at a permitted facility, based on the results of the testing performed.
  - i. The Permittee shall perform routine maintenance of the leachate collection and removal system and all associated structures, to ensure proper operation of the system. The Permittee shall, in an appropriate manner, clean out the leachate collection system if and when obvious signs of obstruction(s) are exhibited.
  - j. The system shall be inspected by video recording at the time of permit renewal. The engineer of record shall review the video recording and shall provide a written evaluation of his/her review and a statement as to the sufficiency of the system. The evaluation shall be provided with the permit renewal application.
  - k. Leachate recirculation is not authorized under this permit.
39. **Leachate Monitoring.** Leachate shall be sampled semi-annually in conjunction with the groundwater monitoring schedule specified in Specific Condition Number 41o. A composite sample will be taken from the drain valve of each of the five (5) leachate collection system storage tanks (Tanks 1 thru 5) and one (1) sample shall be taken from the drain valve of the leachate detection system storage tank (Tank 6) and shall be analyzed for the following parameters:

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#### Field Parameters

Specific conductivity  
pH  
Dissolved Oxygen  
Colors, sheens

#### Laboratory Parameters

Total ammonia - N  
Nitrate  
Bicarbonate  
Chlorides  
Iron  
Mercury  
Sodium  
Total Dissolved Solids (TDS)  
Those parameters listed in 40CFR  
Part 258, Appendix I

IN ADDITION, leachate shall be sampled and analyzed **annually** for the parameters listed in 40 CFR Part 258, Appendix II.

Sampling and monitoring data shall be collected, analyzed, reported and retained in accordance with Chapter 62-160, F.A.C. and FAC Rule 62-522.600. Any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health (DOH) under Chapter 64E-1, F.A.C., where such certification is required by Rule 62-160.300, F.A.C. The laboratory must be certified for all specific method/analyte combinations that are used to comply with this permit. Biological evaluations shall follow the applicable procedures in DEP-SOP-002/01 (January 2002). All field activities including on-site tests and sample collection, whether performed by a laboratory or another organization, must follow all applicable procedures described in DEP-SOP-001/01 (January 2002). Alternate field procedures and laboratory methods may be used if they have been approved according to the requirements of Rules 62-160.220 and 62-160.330, F.A.C.

Detection levels shall be at or below groundwater standards and/or criteria. Leachate sampling results shall be reported on the attached Groundwater Monitoring Report Form [DEP Form 17-522.900(2)](Attachment 5).

In addition to the information required on the Groundwater Monitoring Report Form and the requirements of FAC Rule 62-701.510(9)(a), the following shall be generated:

1. The laboratory report shall indicate the analytical method, the detection limit and the dilution factor used on each data.

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2. The report shall show in columnar form the analysis results and, where applicable, the corresponding Florida Groundwater Standards and/or criteria.
3. All peaks greater than the EPA specified detection limit for the analytical method shall be identified.

Test results shall be submitted to the Department as part of the semi-annual ground and surface water monitoring reports.

Concerning leachate sampling and analysis, if a contaminant listed in 40 CFR 261.24 exceeds the regulatory level listed therein, the Permittee shall follow the procedures addressed in FAC Rule 62-701.510(6)(c) 2, which includes notifying the Department of the results in writing and conducting monthly sampling and analysis, commencing within 30 days of the date the of the sampling event in which the exceedance is first detected. The Permittee shall provide the Department with the monthly analysis. Should the composite sample taken from the five (5) leachate collection storage tanks be determined hazardous, leachate stored in all five (5) tanks shall then be treated as hazardous, unless it is determined through additional leachate sampling and testing, that a tank or tanks do not contain the hazardous leachate. Leachate that is determined hazardous shall be managed in accordance with FAC 62-730. The written notification required per said rule shall be provided as soon as possible and shall indicate how the leachate was managed.

Please note that this permit does not authorize on-site treatment or pretreatment of leachate.

40. **Power generators.** For power outages that extend for a period of 24 hours or more, the facility shall, unless on-site generators are available, obtain emergency generators within 48 hours of the time the power outage first occurs. In the interim and for shorter power outages, onsite equipment may be utilized to power the leachate sump pumps.
41. **Closure Phasing Plan and Final Cover Application.**
  - a. **Closure Phasing Plan.** The Permittee shall close the facility in phases as areas are filled (areas shall be filled in accordance with the "Fill Phasing Plan," reflected on drawing sheet numbers 11, 12, and 13) in accordance with the "Closure Phasing Plan," reflected on Drawing Sheet Numbers 14 and 15 of Document 2. Within 180 days of attaining the elevations reflected on the said drawing sheet numbers 14 and 15, i.e., approximately 210 feet NGVD for Closure Phase 3 and 4; 270 feet NGVD for Closure Phase 5; 330 feet NGVD for Closure Phase 6 and 7, and 345 feet for the final closure phase area, Closure Phase 8, the Permittee shall construct to completion closure for the respective areas reflected on the said drawing sheets as the closure limits. Closure shall include at a minimum, grading the closure limit areas, installing the final

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cover system over them, including establishing vegetation, providing the reflected terraces and downcomer pipes and gas wells. The Permittee shall record when the said design elevations are reached. The gas collection wells reflected on the said drawing sheets shall be constructed in accordance with specific condition number 14. The Permittee shall periodically determine the waste elevations pursuant to specific condition number 15.

- b. **Final cover system design.** Terraces, downcomer pipes, and the final cover system shall be constructed in accordance with the details provided on drawing sheet number 21, Document 2. The final cover system for the side slopes shall consist of the following from bottom to top: a minimum 1 foot thick intermediate cover layer consisting of only uncontaminated soil material, a minimum 12 inch thick clay layer (after installation) that has a maximum permeability of  $6.67 \times 10^{-8}$  cm/sec, a minimum 2 foot thick top soil layer with the top 6 inches capable of sustaining vegetation and the vegetative cover proposed in your application. Terraces with underdrains shall be constructed at the elevations reflected on Drawing sheet number 15 and in accordance with the detail provided on drawing sheet number 21, Document 2. Downcomers shall also be provided as reflected in said drawing sheets. The final cover system for the top slope shall consist of the following from bottom to top: 1 foot minimum thick intermediate cover layer consisting of only uncontaminated soil material, minimum 40 mil geomembrane, minimum 1 foot minimum thick sand layer, permeability of  $1 \times 10^{-3}$  cm/sec or greater, and 1 foot minimum thick top soil layer with the top 6 inches being capable of supporting vegetation. All earthen materials shall be uncontaminated. Additionally, the soil/mulch mixture used on exterior side slopes or top slopes and addressed in specific condition 31 shall be removed prior to placement of the final cover system.
- c. **Interface friction angles.** The Permittee shall test the interface friction angles of the material that will be installed in the final cover system. The materials shall provide interface friction angles pursuant to Response 51 and Attachment D, of Document 4.
- d. **Closure construction Quality Assurance.** The Permittee shall provide quality assurance to each of the phased closure projects. In constructing the side slopes the Permittee shall implement the procedures and conduct the testing proposed in the "Quality Assurance/Quality Control Plan for Side Slope Closure," provided in Attachment D of Document 4. In constructing the top slopes, the Permittee shall implement the procedures and conduct the testing proposed in the "Quality Assurance/Quality Control Plan for Top Slopes," provided in Appendix K of Document 1. Quality assurance shall be provided by a qualified party independent of the contractor. The QA individual shall be experienced in landfill construction.

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- e. **Certification of Closure Construction Completion.** The Permittee shall provide a certification of closure construction completion to the Department within 30 days after completing each closure phase, as reflected on Drawings Sheets 14 and 15, provided with Document 2, Closure Phase 3 through Closure Phase 8. The certification shall be prepared, signed and sealed by a Professional Engineer registered in the state of Florida. Record Drawings and a final survey report done by a professional surveyor, in accordance with Rule 62-701.610(3), FAC, shall be provided for each incremental closure as well as the final closure. The items required in this specific condition number at a minimum, shall be reflected on the drawings accordingly. Also, documentation shall be provided demonstrating that the items requested in this specific condition have been provided. A final certification shall be provided within 30 days of completing closure of the facility as reflected on Drawing Sheet 15, document 2, Closure Phase 8. Included with the report shall be a signed and sealed survey, record drawings and depth checks. The official long-term period will not begin until the final certification of the entire permitted facility is received and approved by the Department and the other requirements of FAC Rule 62-701.610 are met.
42. **Non-authorized.** This permit does not authorize the following:
- a. This permit does not authorize leachate recirculation.
  - b. This permit does not authorize the reuse of any materials other than as indicated by specific condition numbers 31 and 32.
43. **Stormwater Management System.** The operation and maintenance of the stormwater management system shall be as set forth in the plans, specifications, and performance criteria contained in the Department file and approved by this permit.
- A. **Operational Maintenance.** The following operational maintenance activities shall be performed on all permitted systems on a regular basis or as needed:
- (1) Removal of trash and debris
  - (2) Inspection of inlets and outlets
  - (3) Removal of sediments when the storage volume or conveyance capacity of the system is below design level or when the system is rendered ineffective on account of clogging/sedimentation of the pond bottoms.
  - (4) Stabilization and restoration of eroded areas.

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### SPECIFIC CONDITIONS:

- (5) Mowing and removal of grass clippings.
  - (6) Aeration, tilling or replacement of topsoil as needed to restore percolation capability of the system.
- B. **Inspections.** The Permittee is required to provide for periodic inspections of the stormwater management system. The stormwater management system shall be inspected after each heavy rain, but a minimum, once per quarter. The Permittee shall submit reports to the Department certifying that the stormwater management system is operating as designed. The reports shall be submitted to the Department as follows:
1. Inspection reports for retention, underdrain, wet detention (with/without littoral shelf), swales and pumped systems shall be submitted one year after the completion of construction and every year thereafter. A registered Florida Professional Engineer must sign and seal the report certifying the system is functioning as designed.
  2. The reports shall be submitted to the Department's Stormwater Engineer at 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7590.
- C. If the stormwater management system is not functioning as designed and permitted, operational maintenance must be performed immediately to restore the system. If operational maintenance measures are insufficient to enable the system to meet the design standards, the Permittee must either replace the system or construct an alternative design. In such a case, the Permittee must submit a permit modification application within sixty (60) days of the date the system was determined to be design deficient.
- D. **Best Management Practices.** The Permittee is responsible for the selection, implementation, and operation of all erosion and sediment controls on-site and to prevent violations of water quality standards in Chapters 62-302 and 62-4, 40C-4, 40C-40, 40C-41, 40C-42, F.A.C., and Chapters 373 and 403, F.S. The Permittee is encouraged to use the appropriate Best Management Practices described in the Florida Land Development Manual: A guide to Sound Land and Water Management (DER, 1988). All wetland areas or water bodies which are outside of the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring, or excess turbidity and dewatering. Turbidity barriers shall be installed at all locations where the possibility of transferring suspended solids into the receiving water body exists due to the proposed work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. The Permittee shall be responsible for the removal of the barriers.

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### **44. Irrigation System for Wetlands.**

- A. Operate and Maintain.** The Permittee shall continue to maintain and operate the irrigation system (reflected in Figures 3 and 4 of Appendix E of Document 1) for wetlands adjacent to the pond berm that was installed to mitigate any potential effects to the natural hydroperiod of the adjacent wetland as a result of hydrologic draw down caused by the stormwater pond. The irrigation system extends along the southern and eastern most edges of the pond berm and along a portion of the northern edge of the pond berm and is reflected in Attachment 9 (Figure 3 of Document 1).
- B. Erosion control.** The Permittee shall take all appropriate measures to insure that the wetland stormwater discharge system does not cause erosion into any wetland area during construction and operation.

- 45. A landfill for which construction or modification is subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, FAC must make application to the Bureau of Air Regulation, Mail Station 5505, 2600 Blair Stone Road, Tallahassee, Florida, 32399-2400, for an air construction permit and must obtain such permit prior to beginning any construction or modification.
- 46. If the landfill is required to obtain a Title V air operating permit (Title V permit) pursuant to Sec 403.0872, F.S., the landfill owner or operator will be required to obtain an air operating permit. A landfill is required to obtain a Title V permit if the landfill (or the total facility, if the landfill is collocated or part of a larger facility) has the potential to emit 10 TPY of any hazardous air pollutant, 25 TPY of any combination of hazardous air pollutants or 100 TPY of any other regulated air pollutant. A landfill is also required to obtain a Title V permit if the maximum design capacity, as defined at 40 CFR 60, Subpart WWW, is equal or greater than 2.5 million Megagrams or 2.5 million cubic meters. Title V permits must be applied for in accordance with the timing and content requirements of Rule 62-204.800, FAC and Chapter 62-213, FAC Title V applications shall be submitted to the District Air Program Administrator or County Air Program Administrator with air permitting authority for the landfill location.
- 47. The Permittee shall comply with the requirements of 40 CFR 60, Subparts WWW and Cc, as adopted by reference at Rule 62-204.800, FAC The Permittee shall submit to the Division of Air

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Resources Management, Department of Environmental Protection, Mail Station 5500, 2600 Blair Stone Road, Tallahassee, Florida, 32399-2400, any amended design capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 60.757(a)(3) and (b).

**48. Groundwater Monitoring Requirements.** In accordance with FAC Chapters 62-701 and 62-522, the Permittee shall install, place into operation, and maintain a water quality monitoring system.

- a. The groundwater monitoring system shall be designed, constructed, operated and maintained in accordance with FAC Chapters 62-3, 62-520 and 62-522 and with the Groundwater Monitoring Plan with Additional Responses, as modified by the conditions specified in this permit.
- b. Pursuant to FAC Rule 62-522.410, the zone of discharge shall be limited horizontally to 100 feet from the waste management area; or to the property boundary; or to the shortest distance between the location of the compliance monitoring wells and the waste management area; whichever is less. This zone of discharge shall remain in effect unless it becomes necessary to seek a change in accordance with FAC Rule 62-522.410.
- c. The Permittee shall ensure that the water quality standards for Class G-II ground water will not be exceeded at the boundary of the zone of discharge pursuant to FAC Rule 62-522.410.
- d. The Permittee shall ensure that the minimum criteria for ground water specified in FAC Rule 62-520.400 shall not be violated within the zone of discharge.
- e. Approximate monitoring well locations and designations shall be in accordance with Attachment 1. In conjunction with the construction of any new wells, a surveyed drawing shall be submitted showing the location of all monitoring wells (active and abandoned) that will be horizontally located by metes and bounds or equivalent surveying techniques. The surveyed drawing shall include the monitor well identification number as well as location and elevation of all permanent benchmark(s) and/or corner monument markers(s) at the site. The survey shall be conducted by a Florida Registered Surveyor. All wells are to be clearly labeled and easily visible at all times. In accordance with FAC Rule 62-701, monitor wells designed to monitor phases III C, IV C, VA, VB, VC, VD shall be designated detection wells and be placed no greater than 50 feet from the limits of the waste. Monitoring of all active cells shall be by wells located within 50 feet of waste or as close to that point as physically practicable.



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Compliance wells MWB-14(S)c, (I)c, (D)c; MWB-23(S)c; MWB-24(S)c; MWB-25(S)c, (I)c, (D)c; and MWB-26(S)c shall be maintained, but will not be utilized unless required for assessment monitoring.

Background Well Clusters:      MWB-2(S)b, 2(I)b  
   MWB-3(S)b, 3(I)b  
   MWB-31(D)b

#### Phase I

Compliance Well Clusters:      MWB-7(S)c, 7(1)c, 7(D)c  
   MWB-11(S)c, 11(1)(R)c  
   MWB-12(S)c, 12(1)c, 12(D)c  
\* MWB-14(S)c, 14(I)c, 14(D)c  
   MWB-19(S)c, 19(I)c, 19(D)c  
   MWB-20(S)c  
   MWB-21(S)c  
   MWB-22(S)c

#### Phase II

Compliance Well Clusters:      MWB-17(S)c, 17(I)c, 17(D)c

#### Phase III and Phase IV

Compliance Well Clusters:      MWB-13(S)c, 13(I)c  
\* MWB-23(S)c

Detection Well Clusters:      MWB-33(S)d  
   MWB-34(S)d, 34(I)d, 34(D)d

#### Phase V

Compliance Well Clusters:      \* MWB-24(S)c  
   \* MWB-25(S)c, 25(I)c, 25(D)c  
   \* MWB-26(S)c  
   MWB-27(S)c, 27(I)c, 27(D)c  
   MWB-29(S)c, 29(I)c, 29(D)c

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Detection Well Clusters: MWB-32(S)d, 32(I)d, 32(D)d

\* Indicates compliance monitoring well or well cluster replaced by detection wells. No longer on regular sampling schedule, but to be maintained for potential future sampling (if needed).

- f. All groundwater monitoring wells shall be designated and constructed in accordance with FAC Chapter 62-522 and ASTM Standard D-5092. All shallow surficial monitoring wells shall be constructed such that a portion of the screened interval shall extend into the vadose zone during all portions of the year and the screened interval shall be of sufficient length that a minimum of approximately five feet of screen shall extend into the water column throughout the year. Upon completion of construction of any new groundwater monitoring wells, the following information shall be submitted to the Department within fifteen (15) days for all groundwater monitoring wells (permanent and temporary):

Well identification	Driller's Lithologic Log
Latitude/Longitude	Total well depth
Aquifer monitored	Casing diameter
Screen type and slot size	Casing type and length
Elevation at land surface	Depth to groundwater

A well completion report will be provided for all wells. A surveyed drawing shall be submitted showing the location of all monitoring wells (active and abandoned) that will be horizontally located by metes and bounds or equivalent surveying techniques. The surveyed drawing shall include the monitor well identification number as well as location and elevation of all permanent bench mark(s) and/or corner monument marker(s) at the site. The survey shall be conducted by a Florida Registered Surveyor. Well construction at and above ground surface shall be designed to secure and protect the groundwater monitoring wells.

At each well location, construction shall include a concrete surface pad and above ground vertical protective casing with a locking top. The casing and top shall be required to be in good working order, intact and locked. A minimum of two protective bollards shall be placed at the edges of concrete surface pad. Bollards shall be at a minimum of the approximate height of the protective casing and constructed of materials capable of providing some protection of the protective casing from accidental collision with machinery.

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- g. In the event any monitoring well becomes damaged or inoperable, the Permittee shall notify the Department within seventy-two (72) hours and a detailed written report shall follow within seven (7) days. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent a recurrence. All monitoring well design and replacement shall be approved by the Department prior to installation.
- h. Within sixty (60) days of issuance of this permit, all piezometers and wells not a part of the approved groundwater monitoring plan are to be plugged and abandoned in accordance with FAC Rule 17-21.10(4) and St. Johns River Water Management District Rule 40C3.531. The Permittee shall submit a written report to the Department providing verification of the well plugging and abandonment. A written request for exemption to the plugging and abandonment of a well must be submitted to the Department for approval.
- i. Groundwater levels shall be recorded no less than forty-eight (48) hours after well installation and prior to evacuating the well for sample collection. Measurements, referenced to National Geodetic Vertical Datum ( N.G.V.D.), shall include groundwater surface elevation, the top of well casing, and land surface at each site at a precision of plus or minus 0.01 feet. This information shall be submitted to the Department with the semi-annual groundwater analytical results. A map must be constructed depicting locations of wells and piezometers and corresponding water level measurements.
- j. Following receipt of this permit, the Permittee shall within ninety (90) days, initially sample and analyze all groundwater monitoring wells which are part of the detection monitoring program for the parameters listed in Attachment 2. Tentative identification of all peaks greater than 10 ppb is required.
- k. All sample collection and water quality analysis shall be in conformance with FAC Chapter 62-160 and FAC 62-522.600.
- l. Groundwater sampling results shall be reported on the attached Parameter Monitoring Report Form [DEP Form 62-522.900(2)] (Attachment 5). In order to facilitate entry of this data into the state computer systems, these forms or an exact replica must be used and must not be altered as to content. The original forms shall be retained so that the necessary information is available to properly complete future reports. The report forms received from the laboratory must be submitted along with the DEP Parameter Monitoring Report Forms described above. The Permittee shall submit to the Department the results of the groundwater monitoring well water quality analysis no later than the fifteenth (15) day of the month immediately following the end of the sampling period. Analytical results

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shall be accompanied by a brief narrative summary. The results shall be sent to the Department of Environmental Protection, Northeast District, 7825 Baymeadows Way, Suite 200-B, Jacksonville, Florida 32256-7590.

In addition to the information provided on the Parameter Monitoring Report Form, the following shall be generated:

1. The laboratory report shall indicate the analytical method, the detection limit, the practical quantification limit and the dilution factor used on each data sheet.
2. The report shall show in columnar form the analysis results and, where applicable, the corresponding Florida Groundwater Standards and/or criteria.
3. All peaks greater than the EPA specified detection limit for the analytical method shall be identified.

The Permittee shall submit to the Department a minimum of two complete reports and, upon request by the Department, as many additional reports as the Department deems necessary.

- m. All groundwater background detection monitoring wells and active compliance monitoring wells shall be sampled and analyzed semi-annually for the parameters listed in Attachment 3. However, additional samples, wells, and parameters may be required based upon subsequent analyses. Semi-annual samples will be collected for all wells for each phase of monitoring prior to March 30 and September 30 of each year. A report of laboratory data will be submitted to the Department for each sampling period no later than April 15 and October 15 of each year respectively.
- n. Sixty (60) days prior to the renewal of this permit, the Permittee shall sample and analyze all monitoring wells for the parameters listed on Attachment 2. This sampling shall be in lieu of the corresponding semi-annual sampling event.
- o. The Permittee shall prepare and submit to the Department groundwater surface contour maps, prepared from data collected from all permitted wells on site, for the initial sampling event and each semi-annual sampling event. A shallow surficial map, utilizing data from the shallow wells; an intermediate surficial map, utilizing the data from the intermediate wells; and a deep surficial map, utilizing data from the deep wells will be prepared and submitted to the Department, with the groundwater elevation data. This information shall be submitted in conjunction with the initial and semi-annual analytical data.

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- p. If, at any time, groundwater standards and/or criteria are exceeded, or if parameter concentrations in detection wells are significantly above unaffected background water quality, the Permittee shall notify the Department within seventy-two (72) hours of discovery and resample the monitor well(s) to verify the contamination analysis within fourteen (14) days from the date the Permittee received the results. The Permittee shall submit to the Department the results of the resampled groundwater monitoring well water quality analysis and the original analysis no later than the fifteenth (15th) day of the following month.

Should the Permittee choose not to resample, the Department will consider the water quality analysis that exceeded the standards and/or criteria, or that significantly exceeded background water quality, as representative of current groundwater conditions at the facility.

If the groundwater standards and/or criteria are exceeded in a detection well or if parameters in a detection well are significantly above unaffected background water quality, the Permittee shall implement the Assessment Monitoring and Corrective Action requirements of FAC Rule 62-701.510.

If the groundwater standards and/or criteria are exceeded in a compliance well or if parameters in a compliance well are significantly above unaffected background water quality, the Permittee shall initiate and implement corrective action in accordance with FAC Rule 62-701.510(7)(b)2 and current Department rules or guidance within sixty days.

- q. Compliance with groundwater standards and/or criteria shall be determined by analysis of unfiltered or settled groundwater samples.
- r. FAC Rule 62-522.600(3)(k) requires that the groundwater monitoring program must inventory and map surface waters within one mile of the landfill. If there are any modifications to the surface waters within one mile of the landfill, the Permittee shall, upon request, submit to the Department a revised inventory and map of surface waters within ninety (90) days.
- s. FAC Rule 62-522.600(3)(g) requires an inventory and map of all wells within a one (1) mile radius of the landfill, including the owners' names and addresses, well locations, well specifications (well depth, diameter, screened interval, capacity, etc.) and utilization. If there are any changes to the well inventory, the Permittee shall, upon request, revise the well inventory and shall submit the revised inventory to the Department within ninety days.

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- t. The Permittee shall monitor the data obtained from the leachate, ground, and surface water monitoring system, and the site-specific conditions. A report shall be submitted every two (2) years to the Department by the Permittee in accordance with FAC Chapter 62-701. In addition, it shall include a graphic plot of analytical laboratory data over time for the leachate and surface water sampling parameters. Evaluation of the adequacy of the monitoring frequency and analyses shall include the surface water and leachate monitoring programs. The Permittee shall have this report prepared and sealed by a qualified groundwater professional and submit this information by September 30, 2005 and September 30, 2007.
49. In accordance with F.A.C. Rule 62-701.510(6), surface water monitoring is required on a semi-annual basis in conjunction with the groundwater monitoring schedule. The following Surface Water Monitoring Program shall be implemented within ninety (90) days of the issuance of this permit.
- a. The Surface Water Monitoring System shall be designed and operated in accordance with plans submitted to the Department, as modified by the conditions specified in this permit.
- b. The surface water monitoring sites shall be located as follows:
- | SITE NUMBER | LOCATION                     |
|-------------|------------------------------|
| SW-1        | As indicated in Attachment 1 |
| SW-2        | As indicated in Attachment 1 |
- c. All surface water sampling sites shall be sampled and analyzed on a semi-annual basis for the parameters listed in Attachment 4. However, additional sampling sites and parameters may be required based upon subsequent analyses. The results shall be reported in accordance with Specific Condition Number 41(l) and submitted with the groundwater monitoring reports.
50. Within 60 days of the permit issuance date, the Permittee shall compile a revised operations plan including a revised contingency operations plan. The revised plan shall reflect the modifications to the plan contained in Document 1 as revised by the responses provided in Documents 2 through 6. For example, the Permittee shall amend section VIII, U, of the "Operation Plan" found on page 30 of Document 1 to incorporate the revisions proposed in comment 65 of Documents, 2, 3 and 4,

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**SPECIFIC CONDITIONS:**

accordingly. Copies of the revised plan shall be provided to the facility operator within 60 days of the permit issuance date, and to the department at its request.

Executed in Jacksonville, Florida.

**STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION**

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Michael J. Fitzsimmons  
Waste Program Administrator





## BACKGROUND PARAMETERS

### Field Parameters

Static water level in wells  
Specific conductivity  
pH  
Dissolved oxygen  
Turbidity  
Temperature  
Colors and sheens (by observation)

### Laboratory Parameters

Total ammonia - N  
Chlorides  
Iron  
Mercury  
Nitrate  
Sodium  
Total Dissolved Solids  
(TDS)  
Those parameters listed in  
40 CFR Part 258 Appendices  
I and II

## SEMI-ANNUAL PARAMETERS

### Field Parameters

Static water level in wells  
Specific conductivity  
pH  
Dissolved oxygen  
Turbidity  
Temperature  
Colors and sheens (by observation)

### Laboratory Parameters

Total ammonia - N  
Chlorides  
Iron  
Mercury  
Nitrate  
Sodium  
Total Dissolved Solids  
(TDS)  
Those parameters listed in  
40 CFR Part 258 Appendix I

## SURFACE WATER PARAMETERS

### Field Parameters

Specific conductivity  
pH  
Dissolved oxygen  
Turbidity  
Temperature  
Colors and sheens (by observation)

### Laboratory Parameters

Unionized ammonia N  
Total hardness  
Biochemical oxygen  
demand (BOD5)  
Copper  
Iron  
Mercury  
Nitrate  
Zinc  
Total dissolved solids  
(TDS)  
Total organic carbon  
(TOC)  
Fecal Coliform  
Total phosphates  
Chlorophyll A  
Total Nitrogen  
Chemical oxygen demand  
(COD)  
Total suspended solids  
(TSS)  
Those parameters listed in  
40 CFR Part 258 Appendix I

# Florida Department of Environmental Protection

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

DEP Form # 62-522.900(2)

Form Title GROUND WATER MONITORING  
REPORT

Effective Date 04/14/94

DEP Application No. \_\_\_\_\_

## GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

### PART I GENERAL INFORMATION

- 1) Facility Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ Zip \_\_\_\_\_  
Telephone Number (\_\_\_\_) \_\_\_\_\_
- 2) The GMS Identification Number \_\_\_\_\_
- 3) DEP Permit Number \_\_\_\_\_
- 4) Authorized Representative Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ Zip \_\_\_\_\_  
Telephone Number (\_\_\_\_) \_\_\_\_\_
- 5) Type of Discharge \_\_\_\_\_
- 6) Method of Discharge \_\_\_\_\_

#### Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date: \_\_\_\_\_  
Signature of Owner or Authorized Representative

### PART II QUALITY ASSURANCE REQUIREMENTS

- Sample Organization \_\_\_\_\_ Comp QAP # \_\_\_\_\_
- Analytical Lab \_\_\_\_\_ Comp QAP #/HRS Certification # \_\_\_\_\_
- \_\_\_\_\_ \*Comp QAP #/HRS Certification # \_\_\_\_\_
- Lab Name \_\_\_\_\_
- Address \_\_\_\_\_
- Phone Number (\_\_\_\_) \_\_\_\_\_

### PART III ANALYTICAL RESULTS

Facility GMS #:

Sampling Date/Time:

Test Site ID #:

Report Period:

(year/quarter)

Well Name:

Well Purged (Y/N):

### Classification of Ground Water:

Well Type: (

## 1) Background

Ground Water Elevation (NGVD):

### .) Compliance

or (MSL):

11/10/08, 2:54 PM

Storet

Parameter

## Sampling

Field

## Analysis

### Analysis:

### Analysis

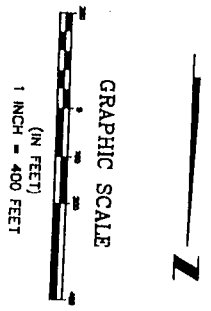
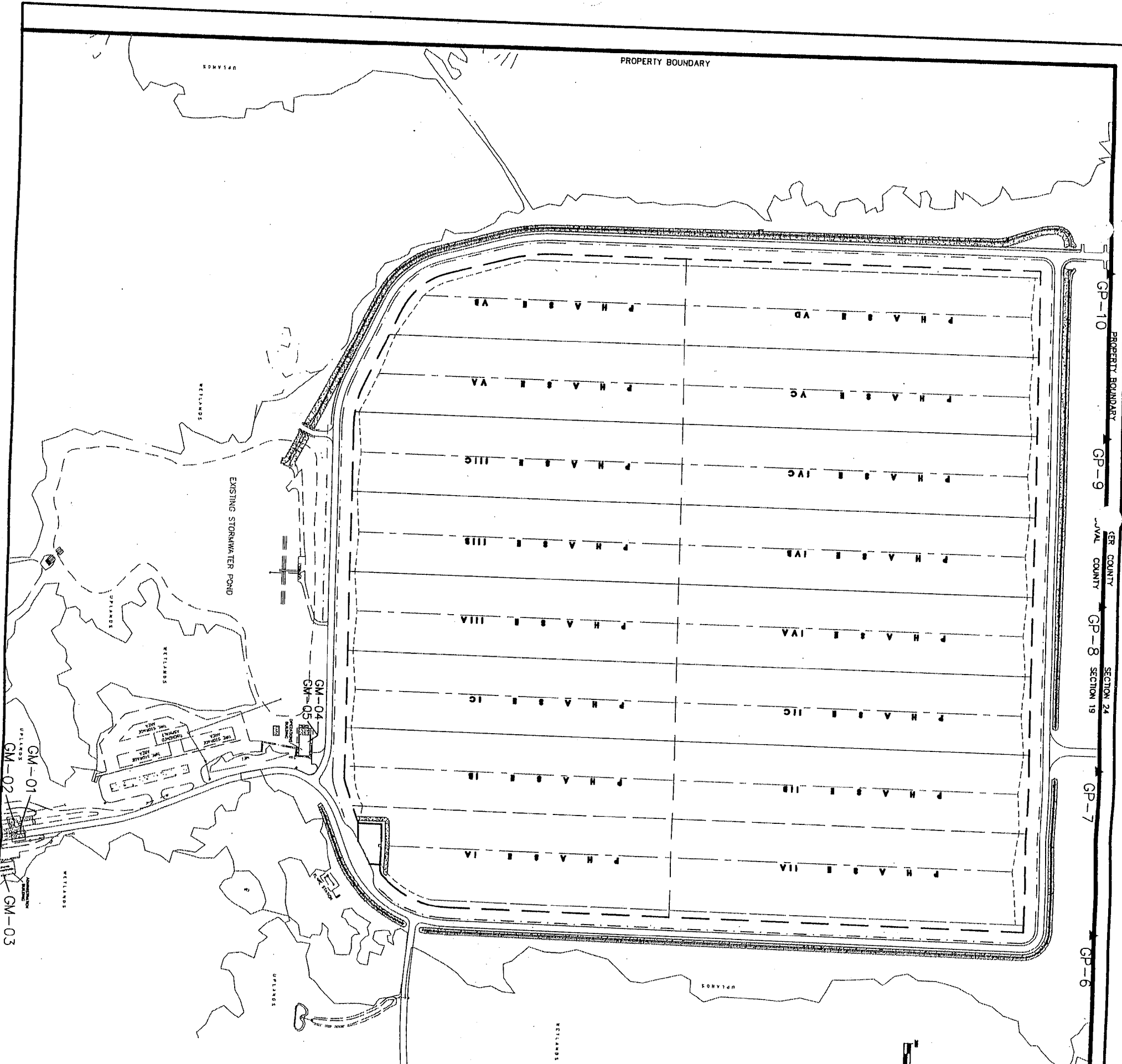
### Detection

[illegible]

\* Attach Laboratory Reports

PROPERTY BOUNDARY GP-10 GP-9 GP-8 SECTION 24 GP-7 GP-6

APPENDIX F



LEGEND  
▲ GAS PROBE  
GP-10 GAS PROBE NUMBER  
GM-04 GAS MONITORING LOCATION

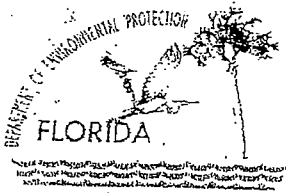


**England-Thimms & Miller, Inc.**  
ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS  
14776 ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32268  
CERTIFICATE OF AUTHORIZATION NUMBER: 2684  
PHONE NUMBER (904) 642-8090 FAX NUMBER (904) 646-9485

**GAS PROBE PLAN**  
**TRAIL RIDGE LANDFILL PERMIT RENEWAL**  
**FOR**  
**TRAIL RIDGE LANDFILL, INC.**

ETM NO. 02-025  
DRAWN BY: S.J.L.  
DESIGNED BY: J.B.C.  
CHECKED BY: J.B.C.  
DATE: SEPTEMBER 25, 2002

REVISIONS:



# Department of Environmental Protection

Lawton Chiles  
Governor

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

Virginia B. Wetherell  
Secretary

May 17, 1996

Mr. Robert E. Hice  
Environmental Coordinator  
Ameristeel  
Jacksonville Steel Mill Division  
Post Office Box 518  
Baldwin, Florida 32234

Dear Mr. Hice:

Ameristeel Slag Disposal  
Duval County - Solid Waste

The Department has reviewed your May 16 submittal of the results of the slag column leaching test designed to demonstrate whether or not your mill's processed slag meets the requirements of Section 403.7045(1)(g)(2), Florida Statutes.

These results, in combination with previous results and your confirmation that slag that is collected during furnace maintenance or Melt Shop clean-up or might otherwise be contaminated will continue to be transported to a properly permitted TSDF, provide adequate assurance for the Department to reach the determination that your processed slag may be considered an industrial byproduct under Florida Statutes, and therefore not regulated as solid waste, provided that:

a majority of the processed slag is demonstrated to be sold, used, or reused within one year;

the slag is not utilized in such a manner that it is placed in the environment in a greater than six-foot thickness; and

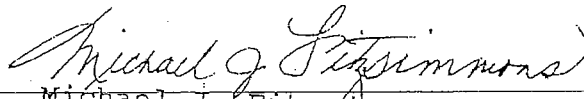
neither the slag nor your processing operation is found to be a source of pollution.

Thank you very much for your cooperation in this matter. The Department appreciates the responsible and professional manner in which you approached this issue. If you have any questions

Mr. Robert E. Hice  
May 17, 1996  
Page two

concerning the Department's determination, please do not hesitate to  
contact me at (904)448-4320, extension 355.

Sincerely,

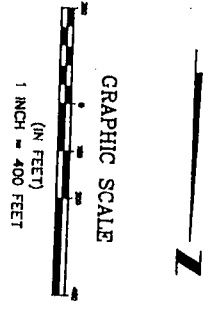
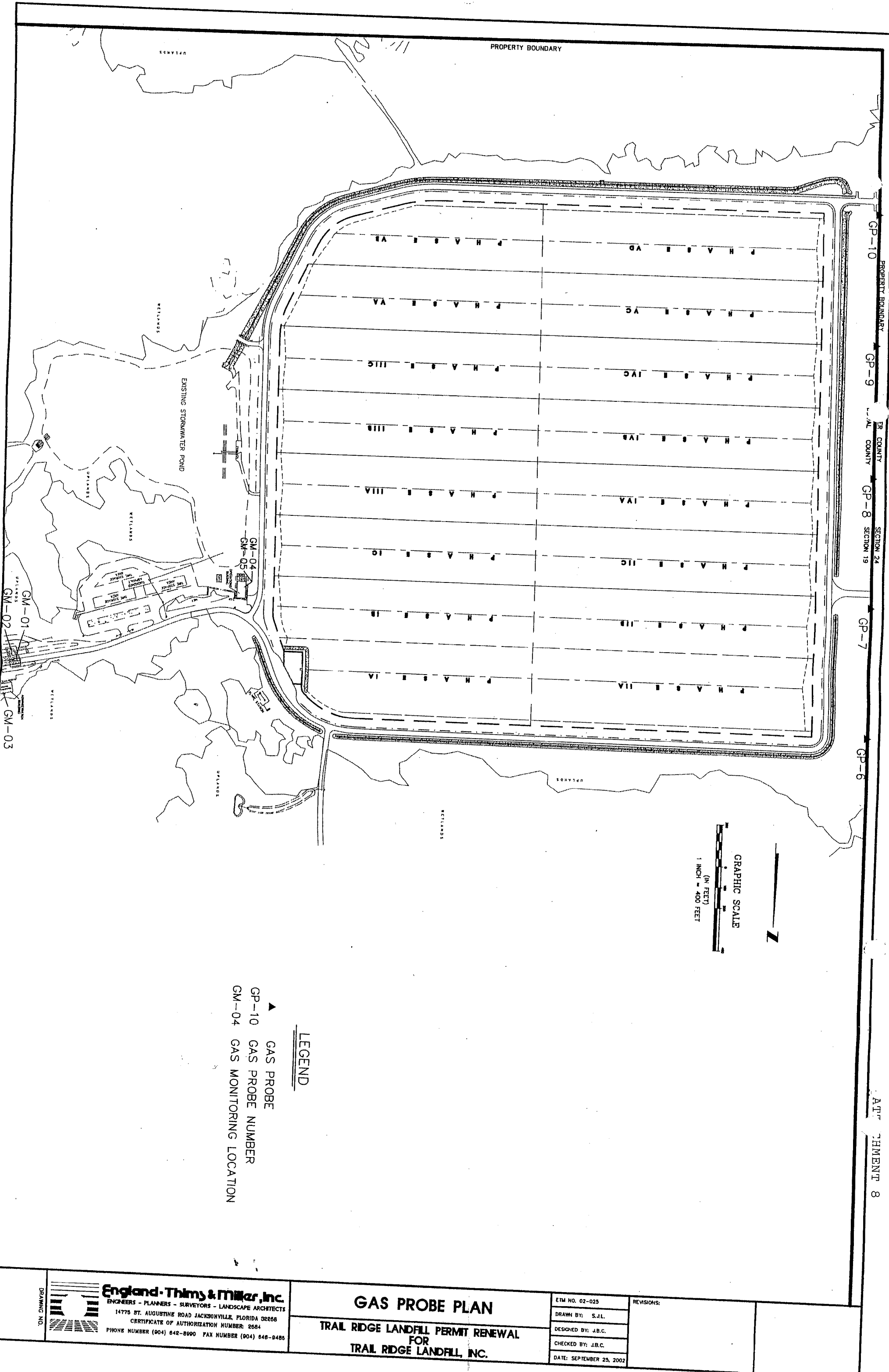


Michael J. Fitzsimmons  
Waste Program Administrator

MJF:mn

cc: Chris McGuire, Office of General Counsel, DEP





LEGEND  
▲ GAS PROBE  
GP-10 GAS PROBE NUMBER  
GM-04 GAS MONITORING LOCATION

APPENDIX F

DRAWING NO.

**England-Thimly & Miller, Inc.**  
ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS  
14775 ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32266  
CERTIFICATE OF AUTHORIZATION NUMBER: 2584  
PHONE NUMBER (904) 642-8900 FAX NUMBER (904) 646-9485

**GAS PROBE PLAN**  
TRAIL RIDGE LANDFILL PERMIT RENEWAL  
FOR  
TRAIL RIDGE LANDFILL, INC.

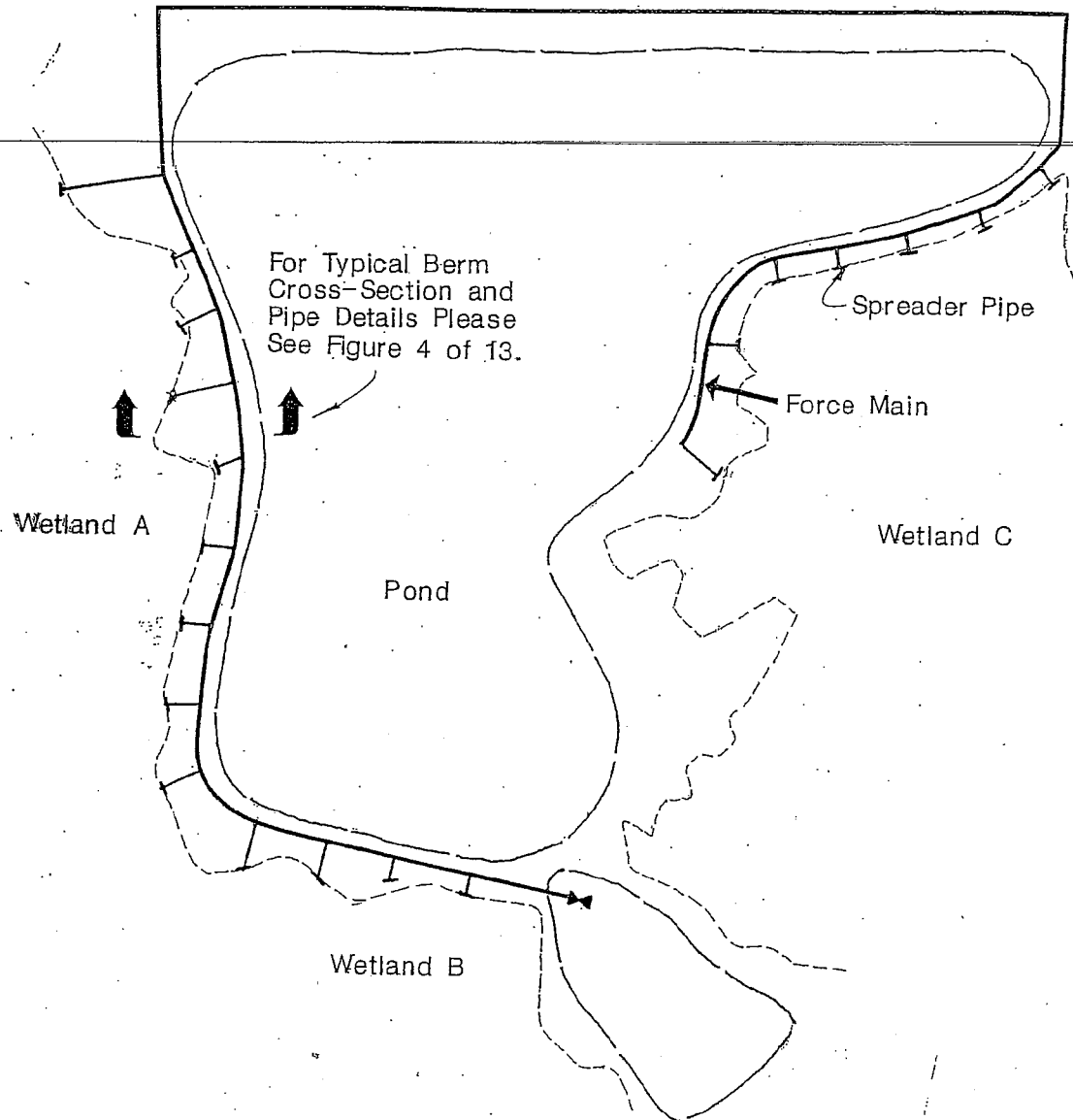
ETM NO. 02-025	REVISIONS:
DRAWN BY: S.J.L.	
DESIGNED BY: J.B.C.	
CHECKED BY: J.B.C.	
DATE: SEPTEMBER 25, 2002	



ENVIRONMENTAL  
SERVICES, INC.

Trail Ridge Landfill  
Jacksonville, Florida

Project No.	EJ02131.00
Date	September 2002
Figure No.	3



Detailed Plan View of  
Wetland Irrigation System

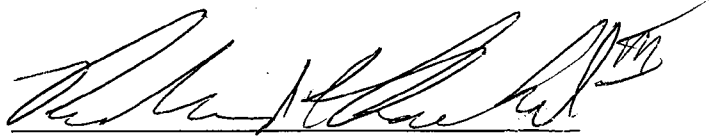
CERTIFICATION

PROJECT NAME: Trail Ridge Landfill  
Class I Operations Renewal

COUNTY: Duval County

APPLICATIONS NO.: 0013493-010, 0013493-011, and 126289-001

I HEREBY CERTIFY that the geologic and hydrogeologic portions described in Applications No. 0013493-010, 0013493-011, and 126289-001 provide reasonable assurance of compliance with the applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Title 62. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including, but not limited to, the engineering, geotechnical, and surface hydrologic portions).



Richard S. Rachal, P. G.  
(Seal)

October 6, 2003  
(Date)

CERTIFICATION

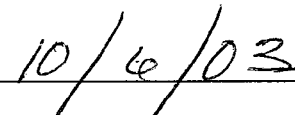
PROJECT NAME: Trail Ridge Landfill  
Class I Operational Renewal

COUNTY: Duval County

APPLICATIONS NO.: 0013493-010, 0013493-011, and 126289-001

I HEREBY CERTIFY that the engineering features described in the above referenced applications provide reasonable assurance of compliance with the applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Title 62. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including, but not limited to, the electrical, mechanical, structural, hydrological, and geological features).

  
\_\_\_\_\_  
Mary Nogas, P. E.  
(Seal)

  
\_\_\_\_\_  
(Date)

**LETTER OF TRANSMITTAL**

**To:** Department of Environmental Protection  
**ATTN:** Mary Nogas  
**Address:** 7825 Baymeadows Way  
Suite B-200  
Jacksonville, Florida 32256

**Date:** October 23, 2003  
**Job No:** 02-025-03  
**Reference:** Trail Ridge Landfill  
**VIA:** COURIER

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via \_\_\_\_\_ the following items:

- ☐ Shop Drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications  
☐ Copy of Letter ☐ Change Order ☐ \_\_\_\_\_

COPIES	DATE	NO.	DESCRIPTION
1			Draft Permit with attached Comments

STATE OF FLORIDA  
DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION  
2003 OCT 24 A 10:49  
NORTHEAST DISTRICT  
JACKSONVILLE, FL

THESE ARE TRANSMITTED AS CHECKED BELOW:

- ☐ For approval ☐ Approved as submitted ☐ Resubmit \_\_\_\_\_ copies for approval  
☒ For your use ☐ Approved as noted ☐ Submit \_\_\_\_\_ copies for distribution  
☐ As requested ☐ Returned for corrections ☐ Return \_\_\_\_\_ for corrected prints  
☐ Review and comment ☐ \_\_\_\_\_  
☐ FOR BIDS DUE \_\_\_\_\_, 2003 ☐ PRINTS RETURNED AFTER LOAN TO US

Remarks If you have any questions, please contact us.

COPY TO: Achaya Kelapanda Mark Behel  
Greg Mathes Steve Clarke  
Chris Pearson File

SIGNED: Beth Ann Dutton

Beth Ann Dutton for Juanitta Clem



# England-Thimms & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • GIS • LANDSCAPE ARCHITECTS

October 24, 2003

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

Reference: Trail Ridge Landfill  
FDEP File Numbers 13493-010 and 13493-011  
ET&M Project No. 02-025-03

Dear Ms. Nogas:

In conjunction with Trail Ridge Landfill, Inc., we have reviewed the draft permit for the referenced project and have the following comments that we would like to discuss with the Department:

1. Page 1 – The location of the geosynthetic clay layer is below the secondary liner in Phases IA, IB, IC, IIA, IIB, and IIC.
2. Page 6, Specific Condition No. 3, Other Applicable Permits – This condition requires the applicant to obtain all necessary permits including the Suwannee Water Management District, which should be changed to the St. Johns River Water Management District.
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England-Thimms & Miller, Inc.  
14775 St. Augustine Rd.  
Jacksonville, FL 32258

2003 OCT 24 10:49  
STATE OF FLORIDA  
DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION  
NORTH EAST DISTRICT  
JACKSONVILLE, FL

7. Page 10, Specific Condition No. 14g - This condition requires that a temporary header that is inoperable be severed and abandoned. The permit should allow for rehabilitation of the header should it be feasible.
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10. Page 12, Specific Condition No. 19, Fill Phasing Plan - The third sentence should be revised as follows: "The facility shall place waste in and conduct operations in a manner to prevent the ponding of ~~leachate~~ stormwater in waste, the mixing of leachate with stormwater, and the running off of leachate into the stormwater system."
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In Subsection e., the Department referenced FAC Rule 62-701.711(530)(5) which should be Rule 62-711.530(5).

13. Page 17, Specific Condition 32A - It is requested that the words "as initial cover" be added to the end of the last sentence of the first paragraph of this condition. Further, under the section called "Records," it is requested that the word "material" in the first two sentences be changed to "contaminated soil" for clarity.
14. Pages 18-19, Specific Condition No. 33, Wet Weather Area - It may not be possible to always locate the wet weather area on an interior slope and why is that an issue? Further, why is the Department so concerned with the leachate ponding in the wet weather area? The fifth sentence should be split into two sentences. (The wet weather area shall have either initial or intermediate cover. The facility shall apply either initial cover or tarp approved by specific condition number 30 of this permit to the wet weather area at the end of the workday.)

Also, the last sentence should be stricken because the word heavy is not defined. The facility in the past has shown it can operate during rain events.

15. Page 19, Specific Condition No. 34, Inspection – This condition requires that the active areas be inspected on a weekly basis and the closed areas at a minimum on a monthly basis. It was agreed during the permitting process to conduct inspections on a monthly basis and after major storm events.
16. Pages 19-20, Specific Condition No. 35, Gas Monitoring Probes – Subsection a. references Attachment 8 which is the same as Attachment 6.
17. Page 20, Specific Condition No. 36, Gas Monitoring Well Maintenance – This condition also references Attachment 8, which is the same as Attachment 6. The proposed condition requires that the repair or replacement of a gas monitoring well/probe have a construction completion report from the “professional engineer or professional geologist in charge of installation”. Why does it warrant a professional engineer or professional geologist?
18. Page 21, Specific Condition No. 37, Contingency Operations – First, there are two Subsections “b”. The second Subsection b. requires that the facility cease accepting waste in the event of a fire at the working face and not recommence waste acceptance activities until the fire is extinguished or the Permittee obtains authorization from the Department. This is not acceptable since the operations can be moved to the wet weather area during such a situation.
19. Page 21, Specific Condition No. 38b, Action Leachate Leakage Rate - This condition requires that the quantity of leachate collected be recorded Monday through Friday at a minimum and “any other day the facility is operating, at a minimum”. Please clarify whether the Permittee is required to record the flow on Saturdays.

Also in the third sentence, after the word “manometer,” the words “or equivalent device” should be added.

20. Page 22, Specific Condition No. 38d, Pump Station and flow meter maintenance – Please note that the flow in the leachate collection system is from west to east.
21. Pages 23-25, Specific Condition No. 39, Leachate Monitoring - The first sentence indicates that the leachate monitoring schedule shall be conducted in conjunction with the groundwater monitoring schedule specified in Specific Condition No. 41o. The reference condition appears to be a typographical error and should be Specific Condition 48o. Rule 62-701.510(6)(c)1., FAC requires leachate sampling and analysis annually. We hereby request that the semi-annual requirement for sampling leachate be deleted and the facility be required to monitor leachate for the list of parameters on an annual basis only. Further, why does the sampling require “Those parameter listed in 40CFR Part 258, Appendix I” which is not in the listed parameters in Rule 62-701.510(8)(e), FAC? Further, on page 24, second paragraph, please explain the reference to “Biological evaluations.”
22. Pages 25-27, Specific Condition No. 41, Closure Phasing Plan and Final Cover Application – In Subsection a., the last sentence references Specific Condition No. 15 which should be Specific Condition No. 19.



Mary C. Nogas  
Department of Environmental Protection  
Re: Trail Ridge Landfill  
ETM No. 02-025-3

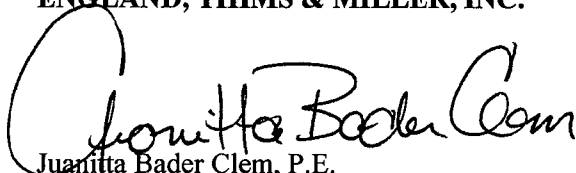
October 24, 2003  
Page 4

In Subsection b., it is stated that "All earthen materials shall be uncontaminated". Please clarify whether an analysis must be conducted on all earthen materials used in closures. Further, for the final cover system design, the Department indicated "minimum 40 mil geomembrane." We hererby request that the word "minimum" be changed to "average thickness" per F.A.C. Rule 60-701.600(5)(f)4.

23. Page 27, Specific Condition No. 42, Non-authorized, Subsection b - Should include reuse of processed waste tires for initial cover.
24. Page 29, Specific Condition No. 46 - This condition references obtaining a Title V Air Operating Permit. The facility has a Title V permit. Further, the proposed condition indicates that a landfill is subject to Subpart WWW if the design capacity is equal to or greater than 2.5 million Megagrams or 2.5 million cubic meters. In Subpart WWW rules, it states 2.5 Megagrams and 2.5 million cubic meters (i.e., it has to meet both conditions).
25. Page 33, Specific Condition No. 48j, Groundwater Monitoring Requirements, the initial sampling of the wells has been completed so this condition is no longer relevant and should be deleted.
26. Page 33. Specific Condition No. 48l - Since the report submittal deadline is more clearly stated in Specific Condition No. 48m, we hereby request the following be removed from the condition, "The Permittee shall submit to the Department the results of the groundwater monitoring well water quality analysis no later than the fifteenth (15) day of the month following the end of the sampling period."
27. In addition to the above comments, please see the attached Technical Memorandum from Steve Clarke with Waste Management.

We would greatly appreciate if we can discuss the aforementioned comments with you at your earliest convenience. If you have any questions, please feel free to give me a call.

Sincerely,  
**ENGLAND, THIMS & MILLER, INC.**



Juanita Bader Clem, P.E.  
Vice President

cc: Greg Mathes  
Achaya Kelapanda  
Mark Behel  
Steve Clarke  
Chris Pearson

---

**TECHNICAL MEMORANDUM**

---

**TO:** MARK BEHEL, WASTE MANAGEMENT, JUANITTA BADDER-CLEM, ETM  
**FROM:** STEVE CLARKE, DIRECTOR - WASTE MANAGEMENT GROUNDWATER PROGRAMS  
**SUBJECT:** TRAIL RIDGE LANDFILL – GROUNDWATER RELATED PERMIT ISSUES  
**DATE:** 10/23/03  
**CC:** GREG MATHES, WASTE MANAGEMENT

---

**PROPOSED TRAIL RIDGE LANDFILL PERMIT  
GROUNDWATER RELATED ISSUES**

There are several groundwater and leachate related permit conditions that are no longer required regulatorily. The specific conditions in the Trail Ridge permit should be modified to reflect the most current regulatory requirements. Following are comments specific to the groundwater and leachate related permit conditions:

**Specific Condition 39, Issue 1: Semi-Annual Leachate Monitoring**

Permit Condition

- Page 23, last paragraph: Leachate Monitoring. Leachate shall be sampled semi-annually in conjunction with the groundwater monitoring schedule ... A composite sample will be take from the drain valve of each of the five (5) leachate collection system storage tanks and one (1) sample shall be taken from the leachate detection system storage tanks ...

Regulatory Requirement:

- FAC 62-701.510(6)(c) Routine leachate sampling 1. Leachate shall be sampled and analyzed annually for the parameters listed in paragraphs (8)(c) and (d) of this section.

Comment/Recommended Change:

- The 5/27/2001 update to the Solid Waste Regulations recognized that annual leachate monitoring is sufficient for evaluating leachate quality. Accordingly, we request that the semi-annual requirement be deleted and the facility be required to monitor leachate for listed parameters on an annual basis only.

**Specific Condition 39, Issue 2: Detection Levels**

Permit Condition:

- Page 24, 3<sup>rd</sup> paragraph: Detection levels shall be at or below groundwater standards and/or criteria. Leachate sampling results shall be reported on the attached Groundwater Monitoring Report Form ...

Regulatory Requirement:

- FAC 62-701.200 Definitions: (79) "Method detection limit" means the smallest concentration of an analyte of interest that can be measured and reported with 99 percent confidence that the concentration is greater than zero. The method detection limit shall be determined pursuant to procedures outlined in Chapter 62-160, F.A.C., which is hereby incorporated by reference.

Comment:

- There is no state regulatory requirement that detection levels be set at or below water quality criteria. In fact, for many analytes, there are analytical methods that can meet published FDEP water quality criteria. The 1994 Groundwater Guidance Criteria booklet recognizes this by setting the water quality criteria at the practical quantitation limit, where the health-based guidance concentration is lower than what can reasonably be measured in a laboratory. Further, proposed changes to Chapters 62-770 (petroleum), 62-782 (dry-cleaning solvents) and 62-785 (brown fields), developed through workshops, recognize the problems of reporting and quantifying analytical data at low levels by defining the Best achievable detection limit (BADL) as the practical quantitation limit.

We request that the text be changed to the following: Reporting levels shall be at or below groundwater standards and/or criteria, unless dilution of the sample is necessary due to interferences or the method detection limit, as defined by FAC 62-160, is higher than a specific criteria.

**PROPOSED TRAIL RIDGE LANDFILL PERMIT  
GROUNDWATER RELATED ISSUES (CONTINUED)**

**Specific Condition 39, Issue 3: Leachate Reporting**

Permit Condition:

- Page 24, 3<sup>rd</sup> paragraph: Detection levels shall be at or below groundwater standards and/or criteria. Leachate sampling results shall be reported on the attached Groundwater Monitoring Report Form ...

Comment:

- Reporting of data in electronic format, as an alternative, should be allowed. See comments, below, for recommended changes.

**Specific Condition 48, Issue 2: Groundwater Sampling Results Reporting**

Permit Condition:

- Page 32, Condition 48 I.: Groundwater sampling reports shall be reported on the attached Parameter Monitoring Report Form ... In order to facilitate entry ...

Regulatory Requirement:

- F.A.C. 62-701.510(9) Water quality monitoring reporting. (a) The landfill owner or operator shall report all water quality and leachate monitoring results to the Department semi-annually ... Water quality data contained in the report may be submitted to the Department electronically, and may be used in place of written copies of the data, if approved by the Department in the permit....

Comment:

- We request that the permit be modified to allow for reporting of analytical data in an electronic format. This will facilitate reporting of the data, reduce paper work, and will eliminate potential data entry errors when transferring data from the state forms.

We request that the following sentence be added to this section and to the above referenced paragraph in Specific Condition 39 (Leachate Reporting): *Upon Department approval, groundwater and leachate analytical data may be submitted to the Department electronically, in lieu of the state forms.*

**Specific Condition 48, Issue 3: Groundwater Resampling and Reporting**

Permit Condition:

- Page 35, Condition 48 p.: If, at any time, groundwater standards and/or criteria are exceeded, or if parameter concentrations are significantly above unaffected background water quality, the Permittee shall notify the Department within seventy-two (72) hours of the discovery and resample the monitor well(s) to verify the contamination analysis within fourteen (14) days from the date the Permittee receives the results...

Regulatory requirement

- FAC 62-701.510(7)(a) Evaluation monitoring. If monitoring parameters are detected in detection wells in concentrations which are significantly above background water quality ...the Permittee may resample the wells within 30 days after the sampling data is received, to confirm the data.... Should the Permittee choose not to resample, the Department will consider the water quality analysis as representative of current ground water conditions at the facility. If the data is confirmed, or if the Permittee chooses not to resample, the Permittee shall notify the Department in writing within 14 days of this finding.

Comment

- We would request that FDEP change the language to require Department notification within 14 days after verification and to allow a resample within 30 days of receipt of results, consistent with the FDEP solid waste regulations. As the condition currently stands, 72-hour notification is often triggered by laboratory contamination issues (false positives). In addition, FDEP agreed in the 5/27/2001 update to the SW regulations, that 30 days is appropriate.



**PROPOSED TRAIL RIDGE LANDFILL PERMIT  
GROUNDWATER RELATED ISSUES (CONTINUED)**

**Specific Condition 41, Issue 4: Assessment Monitoring**

Permit Condition:

1. Page 35, Condition 48 p., 3<sup>rd</sup> paragraph: *If the groundwater standards and/or criteria are exceeded in a detection well ... the Permittee shall implement the Assessment Monitoring and Corrective Action requirements of F.A.C. Rule 62-701.510*

Comment:

The language in FAC 62-701.510(7)(b) has been changed to the effect that, under FAC 62-701.510(7)(b)(1), "Evaluation Monitoring" replaces "Assessment Monitoring. In addition, exceedances in detection wells require "Preventative Action" if the water quality criteria are exceeded beyond the ZOD. Similarly, Corrective action is requirements are specified for compliance wells under FAC 62-701.510(7)(b)(2). The permit should changed to be consistent with the language in the regulation.



# England-Thimby & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • GIS • LANDSCAPE ARCHITECTS

October 24, 2003

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

Reference: Trail Ridge Landfill  
FDEP File Numbers 13493-010 and 13493-011  
ET&M Project No. 02-025-03

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Emmanuel E. England, P.E.  
Emmanuel E. Thimby, P.E.  
JACKSONVILLE, FL  
OCT 24 10:49  
STATE OF FLORIDA  
DEPARTMENT OF  
ENVIRONMENTAL  
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Also, the last sentence should be stricken because the word heavy is not defined. The facility in the past has shown it can operate during rain events.

15. Page 19, Specific Condition No. 34, Inspection – This condition requires that the active areas be inspected on a weekly basis and the closed areas at a minimum on a monthly basis. It was agreed during the permitting process to conduct inspections on a monthly basis and after major storm events.
16. Pages 19-20, Specific Condition No. 35, Gas Monitoring Probes – Subsection a. references Attachment 8 which is the same as Attachment 6.
17. Page 20, Specific Condition No. 36, Gas Monitoring Well Maintenance – This condition also references Attachment 8, which is the same as Attachment 6. The proposed condition requires that the repair or replacement of a gas monitoring well/probe have a construction completion report from the “professional engineer or professional geologist in charge of installation”. Why does it warrant a professional engineer or professional geologist?
18. Page 21, Specific Condition No. 37, Contingency Operations – First, there are two Subsections “b”. The second Subsection b. requires that the facility cease accepting waste in the event of a fire at the working face and not recommence waste acceptance activities until the fire is extinguished or the Permittee obtains authorization from the Department. This is not acceptable since the operations can be moved to the wet weather area during such a situation.
19. Page 21, Specific Condition No. 38b, Action Leachate Leakage Rate - This condition requires that the quantity of leachate collected be recorded Monday through Friday at a minimum and “any other day the facility is operating, at a minimum”. Please clarify whether the Permittee is required to record the flow on Saturdays.  
  
Also in the third sentence, after the word “manometer,” the words “or equivalent device” should be added.
20. Page 22, Specific Condition No. 38d, Pump Station and flow meter maintenance – Please note that the flow in the leachate collection system is from west to east.
21. Pages 23-25, Specific Condition No. 39, Leachate Monitoring - The first sentence indicates that the leachate monitoring schedule shall be conducted in conjunction with the groundwater monitoring schedule specified in Specific Condition No. 41o. The reference condition appears to be a typographical error and should be Specific Condition 48o. Rule 62-701.510(6)(c)1., FAC requires leachate sampling and analysis annually. We hereby request that the semi-annual requirement for sampling leachate be deleted and the facility be required to monitor leachate for the list of parameters on an annual basis only. Further, why does the sampling require “Those parameter listed in 40CFR Part 258, Appendix I” which is not in the listed parameters in Rule 62-701.510(8)(e), FAC? Further, on page 24, second paragraph, please explain the reference to “Biological evaluations.”
22. Pages 25-27, Specific Condition No. 41, Closure Phasing Plan and Final Cover Application – In Subsection a., the last sentence references Specific Condition No. 15 which should be Specific Condition No. 19.

Mary C. Nogas  
Department of Environmental Protection  
Re: Trail Ridge Landfill  
ETM No. 02-025-3

October 24, 2003

Page 4

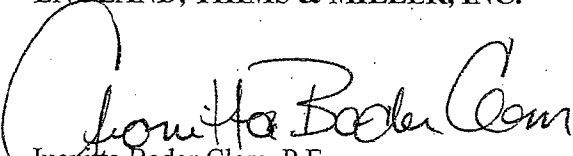
In Subsection b., it is stated that "All earthen materials shall be uncontaminated". Please clarify whether an analysis must be conducted on all earthen materials used in closures. Further, for the final cover system design, the Department indicated "**minimum** 40 mil geomembrane." We hererby request that the word "minimum" be changed to "average thickness" per F.A.C. Rule 60-701.600(5)(f)4.

23. Page 27, Specific Condition No. 42, Non-authorized, Subsection b - Should include reuse of processed waste tires for initial cover.
24. Page 29, Specific Condition No. 46 - This condition references obtaining a Title V Air Operating Permit. The facility has a Title V permit. Further, the proposed condition indicates that a landfill is subject to Subpart WWW if the design capacity is equal to or greater than 2.5 million Megagrams or 2.5 million cubic meters. In Subpart WWW rules, it states 2.5 Megagrams and 2.5 million cubic meters (i.e., it has to meet both conditions).
25. Page 33, Specific Condition No. 48j, Groundwater Monitoring Requirements, the initial sampling of the wells has been completed so this condition is no longer relevant and should be deleted.
26. Page 33. Specific Condition No. 48l - Since the report submittal deadline is more clearly stated in Specific Condition No. 48m, we hereby request the following be removed from the condition, "The Permittee shall submit to the Department the results of the groundwater monitoring well water quality analysis no later than the fifteenth (15) day of the month following the end of the sampling period."
27. In addition to the above comments, please see the attached Technical Memorandum from Steve Clarke with Waste Management.

We would greatly appreciate if we can discuss the aforementioned comments with you at your earliest convenience. If you have any questions, please feel free to give me a call.

Sincerely,

ENGLAND, THIMS & MILLER, INC.



Juanita Bader Clem, P.E.  
Vice President

cc: Greg Mathes  
Achaya Kelapanda  
Mark Behel  
Steve Clarke  
Chris Pearson



TECHNICAL MEMORANDUM

TO: MARK BEHEL, WASTE MANAGEMENT, JUANITITA BADDER-CLEM, ETM  
FROM: STEVE CLARKE, DIRECTOR - WASTE MANAGEMENT GROUNDWATER PROGRAMS  
SUBJECT: TRAIL RIDGE LANDFILL - GROUNDWATER RELATED PERMIT ISSUES  
DATE: 10/23/03  
CC: GREG MATHES, WASTE MANAGEMENT

**PROPOSED TRAIL RIDGE LANDFILL PERMIT  
GROUNDWATER RELATED ISSUES**

There are several groundwater and leachate related permit conditions that are no longer required regulatorily. The specific conditions in the Trail Ridge permit should be modified to reflect the most current regulatory requirements. Following are comments specific to the groundwater and leachate related permit conditions:

**Specific Condition 39, Issue 1: Semi-Annual Leachate Monitoring**

Permit Condition

- Page 23, last paragraph: Leachate Monitoring. Leachate shall be sampled semi-annually in conjunction with the groundwater monitoring schedule ... A composite sample will be take from the drain valve of each of the five (5) leachate collection system storage tanks and one (1) sample shall be taken from the leachate detection system storage tanks ...

Regulatory Requirement:

- FAC 62-701.510(6)(c) Routine leachate sampling 1. Leachate shall be sampled and analyzed annually for the parameters listed in paragraphs (8)(c) and (d) of this section.

Comment/Recommended Change:

- The 5/27/2001 update to the Solid Waste Regulations recognized that annual leachate monitoring is sufficient for evaluating leachate quality. Accordingly, we request that the semi-annual requirement be deleted, and the facility be required to monitor leachate for listed parameters on an annual basis only.

may want  
change to  
annual  
rule allows it

cc

AC oando

**Specific Condition 39, Issue 2: Detection Levels**

Permit Condition:

- Page 24, 3<sup>rd</sup> paragraph: Detection levels shall be at or below groundwater standards and/or criteria. Leachate sampling results shall be reported on the attached Groundwater Monitoring Report Form ...

Regulatory Requirement:

- FAC 62-701.200 Definitions: (79) "Method detection limit" means the smallest concentration of an analyte of interest that can be measured and reported with 99 percent confidence that the concentration is greater than zero. The method detection limit shall be determined pursuant to procedures outlined in Chapter 62-160, F.A.C., which is hereby incorporated by reference.

Comment:

- There is no state regulatory requirement that detection levels be set at or below water quality criteria. In fact, for many analytes, there are analytical methods that can meet published FDEP water quality criteria. The 1994 Groundwater Guidance Criteria booklet recognizes this by setting the water quality criteria at the practical quantitation limit, where the health-based guidance concentration is lower than what can reasonably be measured in a laboratory. Further, proposed changes to Chapters 62-770 (petroleum), 62-782 (dry-cleaning solvents) and 62-785 (brown fields), developed through workshops, recognize the problems of reporting and quantifying analytical data at low levels by defining the Best achievable detection limit (BADL) as the practical quantitation limit.

We request that the text be changed to the following: Reporting levels shall be at or below groundwater standards and/or criteria, unless dilution of the sample is necessary due to interferences or the method detection limit, as defined by FAC 62-160, is higher than a specific criteria.

we will  
check at

**PROPOSED TRAIL RIDGE LANDFILL PERMIT  
GROUNDWATER RELATED ISSUES (CONTINUED)**

**Specific Condition 39, Issue 3: Leachate Reporting**

Permit Condition:

- Page 24, 3<sup>rd</sup> paragraph: Detection levels shall be at or below groundwater standards and/or criteria. Leachate sampling results shall be reported on the attached Groundwater Monitoring Report Form ...

Comment:

- Reporting of data in electronic format, as an alternative, should be allowed. See comments, below, for recommended changes.

**Specific Condition 48, Issue 2: Groundwater Sampling Results Reporting**

Permit Condition:

- Page 32, Condition 48 I: Groundwater sampling reports shall be reported on the attached Parameter Monitoring Report Form ... In order to facilitate entry ...

Regulatory Requirement:

- F.A.C. 62-701.510(9) Water quality monitoring reporting. (a) The landfill owner or operator shall report all water quality and leachate monitoring results to the Department semi-annually ... Water quality data contained in the report may be submitted to the Department electronically, and may be used in place of written copies of the data, if approved by the Department in the permit....

Comment:

- We request that the permit be modified to allow for reporting of analytical data in an electronic format. This will facilitate reporting of the data, reduce paper work, and will eliminate potential data entry errors when transferring data from the state forms.

We request that the following sentence be added to this section and to the above referenced paragraph in Specific Condition 39 (Leachate Reporting): *Upon Department approval, groundwater and leachate analytical data may be submitted to the Department electronically, in lieu of the state forms.*

**Specific Condition 48, Issue 3: Groundwater Resampling and Reporting**

Permit Condition:

- Page 35, Condition 48 p.: If, at any time, groundwater standards and/or criteria are exceeded, or if parameter concentrations are significantly above unaffected background water quality, the Permittee shall notify the Department within seventy-two (72) hours of the discovery and resample the monitor well(s) to verify the contamination analysis within fourteen (14) days from the date the Permittee receives the results...

Regulatory requirement

- FAC 62-701.510(7)(a) Evaluation monitoring. If monitoring parameters are detected in detection wells in concentrations which are significantly above background water quality ...the Permittee may resample the wells within 30 days after the sampling data is received, to confirm the data.... Should the Permittee choose not to resample, the Department will consider the water quality analysis as representative of current ground water conditions at the facility. If the data is confirmed, or if the Permittee chooses not to resample, the Permittee shall notify the Department in writing within 14 days of this finding.

Comment

- We would request that FDEP change the language to require Department notification within 14 days after verification and to allow a resample within 30 days of receipt of results, consistent with the FDEP solid waste regulations. As the condition currently stands, 72-hour notification is often triggered by laboratory contamination issues (false positives). In addition, FDEP agreed in the 5/27/2001 update to the SW regulations, that 30 days is appropriate.



PROPOSED TRAIL RIDGE LANDFILL PERMIT  
GROUNDWATER RELATED ISSUES (CONTINUED)

**Specific Condition 41, Issue 4: Assessment Monitoring**

Permit Condition:

1. Page 35, Condition 48 p., 3<sup>rd</sup> paragraph: *If the groundwater standards and/or criteria are exceeded in a detection well ... the Permittee shall implement the Assessment Monitoring and Corrective Action requirements of F.A.C. Rule 62-701.510*

Comment:

The language in FAC 62-701.510(7)(b) has been changed to the effect that, under FAC 62-701.510(7)(b)(1), "Evaluation Monitoring" replaces "Assessment Monitoring. In addition, exceedances in detection wells require "Preventative Action" if the water quality criteria are exceeded beyond the ZOD. Similarly, Corrective action is requirements are specified for compliance wells under FAC 62-701.510(7)(b)(2). The permit should changed to be consistent with the language in the regulation.



# England-Thimms & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

January 30, 2004

Ms. Mary Nogas  
Florida Department of Environmental Protection  
Northeast District  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256-7590

#### 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.

**Reference: Trail Ridge Landfill – Management & Storage of Surface Waters**  
**DEP Permit No. 0013493-010-SC**  
**ETM Project No. 03-154**

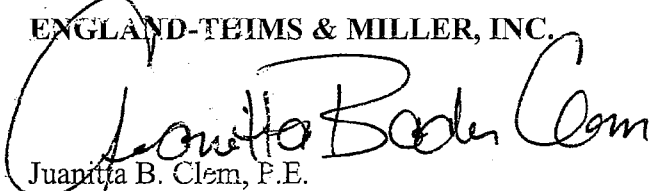
Dear Ms. Nogas:

On behalf of Trail Ridge Landfill, Inc. and the City of Jacksonville, we hereby request that approximately one-half an acre of the drainage area of the existing ancillary facilities detention pond be removed from that drainage area. The area to be removed will be modified to include a roadway and fuel station, which will have a separate stormwater management system that will be constructed, operated and maintained by the City of Jacksonville. On January 30, 2004, we applied for an Environmental Resource Permit for this area. Please see the attached revised site plan (Drawing No. 4 of the approved Trail Ridge Landfill Permit Documents) which shows the location of the proposed fuel station as well as the Site Plan for the fuel station area. We request that the Department respond in writing that they agree with this request.

If you have any questions, please give me a call at 265-3181. Thank you for your assistance.

Sincerely,

ENGLAND-THIMMS & MILLER, INC.

  
Juanitta B. Clem, P.E.  
Vice President

RECEIVED

JAN 30 2004

Attachments

cc: Chris Pearson: Solid Waste & Resource Management  
Greg Mathes: Trail Ridge Landfill, Inc.  
Ken Kohn, FDEP

STATE OF FLORIDA  
DEPT. OF ENV. PROTECTION  
NORTH FLORIDA DISTRICT OFFICE

**Boesch, Julia**

---

**From:** Boesch, Julia  
**Sent:** Monday, February 23, 2004 10:45 AM  
**To:** Jarvis, Katheryn  
**Cc:** Kohn, Kenneth  
**Subject:** Tail Ridge Fuel Station proposal received January 30, 2004

Katheryn,

The solid waste section has no comments concerning the proposed Fuel station at the Trail Ridge Landfill. However, since they are proposing fuel tanks I was thinking that you may want to contact the tanks section, if you haven't already, to make sure they have no comments as well.

Thanks,  
Julia



# Department of Environmental Protection

Jeb Bush  
Governor

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

Colleen M. Castille  
Secretary

May 28, 2004

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

Dear Mr. Mathes:

Trail Ridge Landfill  
Duval County - Solid Waste

As you are probably aware, the U.S. Environmental Protection Agency has adopted a new arsenic standard for drinking water systems of 0.010 mg/L (10 ug/L). The Florida Department of Environmental Protection (Department) adopted the same standard for drinking water systems and for groundwater quality on April 25, 2003, with an effective date of January 1, 2005.

The Department would like to inform you that your permit will be modified to require laboratory detection limits of 10 ug/L for arsenic in groundwater samples no later than January 1, 2005. In addition, we encourage you to request that your laboratory start meeting these lower limits before January 1, 2005.

If you have any questions concerning this letter, please contact me at the letterhead address or telephone number (904) 807-3355.

Sincerely,

Mary C. Nogas, P. E.  
Solid Waste Supervisor

MCN:tf

"More Protection, Less Process"

Printed on recycled paper.

DEP003178



# England-Thimms & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

April 28, 2004

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

Reference: Trail Ridge Landfill  
FDEP Permit No. 0013493-010-SC  
ET&M Project No. 02-025-03

## 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.

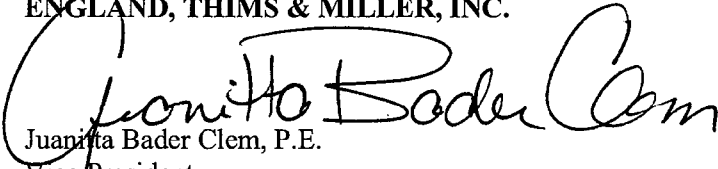
Dear Ms. Nogas:

We have received your letter dated April 22, 2004 regarding the referenced project. On behalf of Trail Ridge Landfill, Inc, I would like to make the following points of clarification regarding the referenced permit for Trail Ridge Landfill:

1. Specific Condition No. 36, Gas Monitoring Well Maintenance – It is our understanding that a P.E. or P.G. does not have to be present during a gas well construction or repair. However, a P.E. or P.G. must review the work. Please note that this understanding is consistent with the meeting with you and your staff on November 14, 2003.
2. Specific Condition No. 41b, Final Cover System Design – It is our understanding the demonstration that “All earthen materials shall be uncontaminated” shall be met by testing each source of earthen material one time only. Please note that this understanding is also consistent with the meeting with you on November 14, 2003.

If you do not agree with the above, please let us know at your earliest convenience. Further if you have any questions regarding this information, please feel free to give me a call at 265-3181.

Sincerely,  
ENGLAND, THIMMS & MILLER, INC.

  
Juanitta Bader Clem, P.E.  
Vice President

cc: Greg Mathes  
Chris Pearson  
Achaya Kelapanda  
Mark Behel  
Chris Pearson

NORTHEAST DISTRICT  
JACKSONVILLE, FL

2004 APR 28 A 11:12

STATE OF FLORIDA  
DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION

Sw file 4/22



# Department of Environmental Protection

Jeb Bush  
Governor

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

Colleen M. Castille  
Secretary

April 22, 2004

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

Dear Mr. Mathes:

Trail Ridge Landfill facility  
Permit Number: 0013493-010-SC  
Duval County - Solid Waste

Enclosed are corrected pages 7, 21, 27, 28 and 36 of the above-referenced permit (issued December 19, 2003). Specific condition numbers 9, 37d, 41b, 42 and 48o were corrected on said respective pages. Please replace your file copies with these pages. We apologize for this oversight and any inconvenience this may have caused.

If you have any comments concerning this matter, please contact Julia Boesch at the letterhead address or telephone number (904) 807-3365.

Sincerely,

Mary C. Nogas, P. E.  
Solid Waste Supervisor

MCN:jb:mlp

Enclosure

cc: Juanitta Bader Clem, P.E.  
Chris Pearson

DEP003180



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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007  
Corrected Page

#### **SPECIFIC CONDITIONS:**

6. **Permit Renewal.** Pursuant to FAC Rule 62-4.090, by September 25, 2007 the Permittee shall apply for a renewal of the permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five (5) years as required by FAC Rule 62-701.330(2).
7. **Notification in Case of an Emergency.** The Permittee shall immediately notify the Department by telephone whenever a serious problem occurs at the facility including a fire or other emergency, which poses an unanticipated threat to the public health or the environment. During regular business hours, notification shall be made to the Northeast District Office at (904) 807-3300. If an emergency occurs outside regular business hours, the Permittee shall telephone the 24-hour emergency phone number (800) 320-0519. This number is for emergencies only. Within seven (7) days of any emergency, the Permittee shall submit to the Department, a written report explaining the extent of the problem, the cause, and what actions have been or will be taken to correct the problem, or prevent its recurrence.
8. **Provisions of Temporary Source of Potable Water.** The Permittee shall provide a temporary source of potable water within seven (7) days and a permanent safe drinking water supply within 180 days of discovery of contamination to replace any potable water well that is shown by chemical and hydrogeologic analysis to be contaminated by the facility. This temporary source of water shall meet all drinking water standards set forth in FAC Chapter 62-550 and shall be provided at the Permittee's expense.
9. **Design Elevations and Annual Survey.** The maximum design elevation for the Trail Ridge Landfill is elevation 350.6 ft. MSL. This maximum specified elevation shall include the final cover system. A survey of the waste disposal areas shall be conducted and submitted to the Department between March 1 and July 1 of each year of this permit until it is within ten (10) feet of the maximum design elevation, after which the survey shall be conducted quarterly. This information is to be submitted to the Department within sixty (60) days of conducting the survey and shall include the existing elevations in five foot contour intervals and in reference to the National Geodetic Vertical Datum, all points designed for terraces and the location of the toes of the side slopes.
10. **Financial Assurance.** The Permittee shall maintain, in good standing, the financial assurance mechanisms established to demonstrate proof of financial assurance. Support documentation and evidence of inflation adjustment increases shall be submitted within the time frames specified in Rule 62-701.630, FAC. All submittals in response to this specific condition shall be sent to: Financial Coordinator, Solid Waste Section, Florida Department of Environmental Protection, Mail Station Number 4565, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. The Permittee shall file with the Department a signed duplicate of the escrow account

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007  
Corrected Page

### **SPECIFIC CONDITIONS:**

37. **Contingency Operations.** Prior to the imminent threat of a natural disaster (i.e., hurricane or tornado), flooding and fire, the following procedures (at a minimum) shall be implemented:
- a. Initial soil cover shall be applied and compacted to all exposed solid waste;
  - b. All landfill equipment shall be fueled and parked near natural wind screens, earthen mounds or tree areas; and
  - c. All lightweight signs and equipment shall be secured.
  - d. In the event a hot load is received or a fire occurs at the facility, the Permittee shall follow the procedures addressed on page 30 of section VIII "Operation Plan" found in Document 1 as amended by comment 65 of Documents, 2, 3 and 4 to control and extinguish the fire. The facility shall extinguish a fire, either surface or subsurface that occurs at the facility, as soon as possible, using the proper techniques such as adding water and/or cutting off the oxygen supply. The area where a fire occurs, including a subsurface fire, shall be cordoned off. The local fire Department shall be contacted when needed. Fire hydrant(s) shall be maintained at the facility. The facility shall notify the Department of the fire as soon as possible and within 24 hours of discovery of the fire.

Additionally, the following actions shall be implemented in the event a fire occurs within the working face. The facility shall immediately cease disposal operations in the working face area until the fire is extinguished. The landfill operator or his designee shall direct all waste disposal operations to another operational area, (an area that has no intermediate or final cover) within the liner footprint and that is a safe distance from the fire. The temporary disposal area shall not be located in an area that may interfere or delay movement of fire fighting equipment. For a subsurface fire that occurs outside the working face the landfill operator or his/her designee shall cordon off the area and shall also assess and determine if the active working face shall be moved until the fire is extinguished. At no time shall the facility continue to accept waste in a burning area.

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007  
Corrected Page

### **SPECIFIC CONDITIONS:**

- 41b. Final cover system design.** Terraces, downcomer pipes, and the final cover system shall be constructed in accordance with the details provided on drawing sheet number 21, Document 2. The final cover system for the side slopes shall consist of the following from bottom to top: a minimum 1 foot thick intermediate cover layer consisting of only uncontaminated soil material, a minimum 12 inch thick clay layer (after installation) that has a maximum permeability of  $6.67 \times 10^{-8}$  cm/sec, a minimum 2 foot thick top soil layer with the top 6 inches capable of sustaining vegetation and the vegetative cover proposed in your application. Terraces with underdrains shall be constructed at the elevations reflected on Drawing sheet number 15 and in accordance with the detail provided on drawing sheet number 21, Document 2. Downcomers shall also be provided as reflected in said drawing sheets. The final cover system for the top slope shall consist of the following from bottom to top: 1 foot minimum thick intermediate cover layer consisting of only uncontaminated soil material, at least 40 mil average thickness geomembrane, minimum 1 foot minimum thick sand layer, permeability of  $1 \times 10^{-3}$  cm/sec or greater, and 1 foot minimum thick top soil layer with the top 6 inches being capable of supporting vegetation. All earthen materials shall be uncontaminated. Additionally, the soil/mulch mixture used on exterior side slopes or top slopes and addressed in specific condition 31 shall be removed prior to placement of the final cover system.
- c. Interface friction angles.** The Permittee shall test the interface friction angles of the material that will be installed in the final cover system. The materials shall provide interface friction angles pursuant to Response 51 and Attachment D, of Document 4.
- d. Closure construction Quality Assurance.** The Permittee shall provide quality assurance to each of the phased closure projects. In constructing the side slopes the Permittee shall implement the procedures and conduct the testing proposed in the "Quality Assurance/Quality Control Plan for Side Slope Closure," provided in Attachment D of Document 4. In constructing the top slopes, the Permittee shall implement the procedures and conduct the testing proposed in the "Quality Assurance/Quality Control Plan for Top Slopes," provided in Appendix K of Document 1. Quality assurance shall be provided by a qualified party independent of the contractor. The QA individual shall be experienced in landfill construction.
- e. Certification of Closure Construction Completion.** The Permittee shall provide a certification of closure construction completion to the Department within 30 days after completing each closure phase, as reflected on Drawings Sheets 14 and 15, provided with Document 2, Closure Phase 3 through Closure Phase 8. The certification shall be prepared, signed and sealed by a Professional Engineer registered in the state of Florida. Record Drawings and a final survey report done by a professional surveyor, in accordance with Rule 62-701.610(3), FAC, shall be provided for each incremental closure as well as the final closure.

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007  
Corrected Page

### **SPECIFIC CONDITIONS:**

The items required in this specific condition number at a minimum, shall be reflected on the drawings accordingly. Also, documentation shall be provided demonstrating that the items requested in this specific condition have been provided. A final certification shall be provided within 30 days of completing closure of the facility as reflected on Drawing Sheet 15, document 2, Closure Phase 8. Included with the report shall be a signed and sealed survey, record drawings and depth checks. The official long-term period will not begin until the final certification of the entire permitted facility is received and approved by the Department and the other requirements of FAC Rule 62-701.610 are met.

42. **Non-authorized.** This permit does not authorize the following:
  - a. This permit does not authorize leachate recirculation.
  - b. This permit does not authorize the reuse of any materials other than as indicated by specific condition numbers 30, 31 and 32.
43. **Stormwater Management System.** The operation and maintenance of the stormwater management system shall be as set forth in the plans, specifications, and performance criteria contained in the Department file and approved by this permit.
  - A. **Operational Maintenance.** The following operational maintenance activities shall be performed on all permitted systems on a regular basis or as needed:
    - (1) Removal of trash and debris
    - (2) Inspection of inlets and outlets
    - (3) Removal of sediments when the storage volume or conveyance capacity of the system is below design level or when the system is rendered ineffective on account of clogging/sedimentation of the pond bottoms.
    - (4) Stabilization and restoration of eroded areas.
    - (5) Mowing and removal of grass clippings.
    - (6) Aeration, tilling or replacement of topsoil as needed to restore percolation capability of the system.

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

I. D. Number: NED/16/00033628  
Permit Number: 0013493-010-SC  
Date of Issue: December 19, 2003  
Expiration Date: November 25, 2007  
Corrected Page

**SPECIFIC CONDITIONS:**

- n. The Permittee shall prepare and submit to the Department groundwater surface contour maps, prepared from data collected from all permitted wells on site, for the initial sampling event and each semi-annual sampling event. A shallow surficial map, utilizing data from the shallow wells; an intermediate surficial map, utilizing the data from the intermediate wells; and a deep surficial map, utilizing data from the deep wells will be prepared and submitted to the Department, with the groundwater elevation data. This information shall be submitted in conjunction with the initial and semi-annual analytical data.

- o. If, at any time, groundwater standards and/or criteria are exceeded, or if parameter concentrations in detection wells are significantly above unaffected background water quality, the Permittee shall notify the Department within fourteen (14) days of discovery. The Permittee may resample the monitor well(s) to verify the groundwater analysis within thirty (30) days of receipt of the analytical data. The Permittee shall submit to the Department the results of the resampled groundwater monitoring well water quality analysis and the original analysis no later than the sixty (60) days following initial receipt of the original analytical data.

Should the Permittee choose not to resample, the Department will consider the water quality analysis that exceeded the standards and/or criteria, or that significantly exceeded background water quality, as representative of current groundwater conditions at the facility.

If the groundwater standards and/or criteria are exceeded in a detection well or if parameters in a detection well are significantly above unaffected background water quality, the Permittee shall implement the Evaluation Monitoring and Corrective Action requirements of FAC Rule 62-701.510.

If the groundwater standards and/or criteria are exceeded in a compliance well or if parameters in a compliance well are significantly above unaffected background water quality, the Permittee shall initiate and implement corrective action in accordance with FAC Rule 62-701.510(7)(b)2 and current Department rules or guidance within sixty days.

- p. Compliance with groundwater standards and/or criteria shall be determined by analysis of unfiltered or settled groundwater samples.

Sally

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

STATE OF FLORIDA  
DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION



2004 APR 15 1 A 9: 56  
NORTHEAST DISTRICT  
JACKSONVILLE, FL

**Disposal Operations**

April 15, 2004

Ms. Sally Heuer, Environmental Specialist  
Florida Department of Environmental Protection  
7825 Baymeadows Way, Suite B-200

RE: NOTICE of INTENT TO ISSUE PERMIT  
Northeast District Office, Permit No. 16-0226914-001-SI  
City Of Jacksonville, Stormwater - Trail Ridge Landfill

Dear Ms Heuer:

Transmitted herewith is a sealed Certified "Affidavit of Publication" which states that the above referenced document was published in the Florida Times-Union on April 3, 2004. Our office received this affidavit of publication on April 12, 2004.

If you need any further information on this subject, please contact me at 630-4185, ext. 232.

Sincerely,

W. Neil Rushing  
Project Coordinator

WNR/

cc: Chris Pearson



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*

DEP003186

THE FLORIDIA TIMES-UNION Jacksonville, Fl  
Affidavit of Publication

Florida Times-Union

CITY OF JAX/SOLID WASTE  
140 W MONROE ST STE 200  
JACKSONVILLE FL 32202

REFERENCE: 0188382 BO#004531  
R040822 State Of Florida


State of Florida  
County of Duval

Before the undersigned authority personally appeared Kimalette Frazier who on oath says she is a Legal Advertising Representative of The Florida Times-Union, a daily newspaper published in Jacksonville in Duval County, Florida; that the attached copy of advertisement is a legal ad published in The Florida Times-Union. Affiant further says that The Florida Times-Union is a newspaper published in Jacksonville, in Duval County, Florida, and that the newspaper has heretofore been continuously published in Duval County, Florida each day, has been entered as second class mail matter at the post office in Jacksonville, in Duval County, Florida for a period of one year preceeding the first publication of the attached copy of advertisement; and affiant further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission, or refund for the purpose of securing this advertisement for publication in said newspaper.

PUBLISHED ON: 04/03

FILED ON: 04/05/04

Name: Kimalette Frazier Title: Legal Advertising Represe  
In testimony whereof, I have hereunto set my hand and affixed  
seal, the day and year aforesaid.

NOTARY:  MILLA SHIPP  
Notary Public, State of Florida  
My Comm. Expires May 13, 2006  
Comm. No. DD 117248

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
NOTICE OF INTENT TO ISSUE PERMIT

The Department of Environmental Protection gives notice of its intent to issue a permit to the City of Jacksonville Solid Waste Division, for Permit No. 16-0226914-001-S1 to construct and operate a stormwater management system for the Trail Ridge Landfill Fuel Station located at 5110 U.S. Highway 301, in Baldwin, Duval County, Florida. The stormwater management system is to provide for the collection and treatment of stormwater runoff from the 0.23 acre paved fueling area at the facility. The stormwater management system consists of one (1) wet detention pond with required appurtenances for capturing and treating the first 2.5 inches of runoff from the impervious area of the fueling station. Excess runoff in the pond will be directed to a control structure that outfalls into a wetland area. The stormwater management system provides for adequate attenuation, containment and recovery of half the required treatment volume within an appropriate time period.

The Department will issue the permit unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes, or all parties reach a written agreement on mediation as an alternative remedy under section 120.573 before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for petitioning for a hearing are set forth below, followed by the procedures for pursuing mediation. A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes. The petition (received) in the Department's Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Petitions must be filed within twenty-one (21) days of publication of this public notice or within twenty-one (21) days of receipt of the notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition (or a request for mediation, as discussed below) within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-5.207 of the Florida Administrative Code.

- A petition must contain the following information:
- (a) The name, address, and telephone number of each petitioner; the Department's permit identification number and the county in which the subject matter or activity is located;
  - (b) A statement of how and when each petitioner received notice of the Department action;
  - (c) A statement of how each petitioner's substantial interests are affected by the Department action;
  - (d) A statement of the material facts disputed by the petitioner, if any;
  - (e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
  - (f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action; and
  - (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

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

Any person may elect to pursue mediation by reaching a mediation agreement with all parties to the proceeding (which includes the Department and any person who has filed a timely and sufficient petition for a hearing) and by showing how the substantial interests of each mediating party are affected by the Department's action or proposed action. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition. The agreement to mediate must include the following:

- (a) the names, addresses, and telephone numbers of any persons who may attend the mediation;
- (b) the name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time;
- (c) the agreed allocation of the costs and fees associated with the mediation;
- (d) the agreement of the parties on the confidentiality of discussions and documents introduced during mediation;
- (e) the date, time, and place of the first mediation session, or a deadline for holding the first session, if no mediator has yet been chosen;
- (f) the name of each party's representative who shall have authority to settle or recommend settlement;
- (g) either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action addressed in this action or a statement clearly identifying the petition for hearing that each party has already filed, and incorporating it by reference; and
- (h) the signatures of all parties or their authorized representatives.

As provided in section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by section 120.569 and 120.57 for requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons whose substantial interests will be affected by such a modified final decision of the Department have the right to petition for a hearing only in accordance with the requirements for such petitions set forth above, and must therefore file their petitions within twenty one (21) days of receipt of this notice. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under section 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Protection, Northeast District Office, 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7590.

DEP003187



# England-Thims & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

August 7, 2003

**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.

Ms. Julia Boesch  
Waste Management Section  
Department of Environmental Protection  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256

**RECEIVED**

AUG 08 2003

**RE: Trail Ridge Landfill – Second Permit Renewal  
FDEP Permit Numbers 0013493-001 and 0013493-002  
FDEP File Numbers 13493-010 and 13493-011  
ETM No. 02-025-3**

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

Dear Ms. Boesch:

Please find herewith the revised Primary Liner Leakage calculations for the referenced project. I apologize for the conversion error in the previous calculations.

Please feel free to give me a call if you have any questions or require any additional information.

Sincerely,

**ENGLAND, THIMS & MILLER, INC.**

Juanitta Bader Clem, P.E.  
Vice President

Attachment

cc: Greg Mathes  
Achaya Kelpenda  
Chris Pearson



## Trail Ridge Landfill Primary Liner Leakage

Although geomembranes have very low permeability, they still allow some leakage. Leakage through geomembranes can occur due to pinholes and larger holes (holes larger than the geomembrane thickness). The leakage due to pinholes is negligible compared to the larger holes and is therefore ignored. The leakage due to large holes can be calculated by Bernoulli's equation for flow through an aperture, as follows:

$$Q = 0.6 a \sqrt{2gh}$$

Where:      Q =      Leakage rate through one geomembrane hole  
                  a =      Area of geomembrane hole  
                  g =      Acceleration of gravity = 9.81 m/s<sup>2</sup>  
                  h =      Head of liquid on top of geomembrane

Say:

$$a = 1 \text{ cm}^2 \text{ (per acre)} = 1 \times 10^{-4} \text{ m}^2$$

$$h = 5.6 \text{ mil}^* = 0.0056 \text{ in} = 1.42 \times 10^{-4} \text{ m}$$

\* The maximum head on the liner as determined in the First Permit Renewal, Appendix E, October 28, 1996.

Therefore:

$$Q = (0.6) (1 \times 10^{-4} \text{ m}^2) \sqrt{2 (9.81 \text{ m/s}^2) (1.42 \times 10^{-4} \text{ m})}$$

$$Q = 3.17 \times 10^{-6} \text{ m}^3/\text{sec (per acre)}$$

$$Q = 72.51 \frac{\text{gallons}}{\text{day}} \text{ (per acre)}$$

Assume a trigger rate at 3.5 times this rate.

$$Q_{\text{Max}} = 253.8 \frac{\text{gallons}}{\text{day}} \text{ (per acre)} = 1.11 \times 10^{-5} \text{ m}^3/\text{sec (per acre)}$$

Check to make sure the geonet can handle the trigger rate leakage.

$$t_{LCL} = (Q / k)^{1/2} \quad (\text{J.P. Giroud, 1997})$$

Where:

$$\begin{aligned} k &= \theta / t \\ t_{LCL} &= \text{Minimum Thickness of Secondary Geonet} \\ Q &= \text{Maximum Flow Rate for Secondary Geonet} \\ k &= \text{Hydraulic Conductivity of Secondary Geonet} \\ \theta &= \text{Hydraulic Transmissivity of the Secondary Geonet (m}^2\text{/sec)} \\ t &= \text{Thickness of Secondary Geonet} \end{aligned}$$

Say:

$$\begin{aligned} \theta &= 2.26 \times 10^{-3} \text{ m}^2\text{/sec} \\ t &= 200 \text{ mil} = 0.2 \text{ inches} = 5.1 \times 10^{-3} \text{ m} \\ Q &= 1.11 \times 10^{-5} \text{ m}^3\text{/sec} \end{aligned}$$

Therefore:

$$\begin{aligned} k &= (2.26 \times 10^{-3} \text{ m}^2\text{/sec}) / (5.1 \times 10^{-3} \text{ m}) = 0.44 \text{ m/sec} \\ t_{LCL} &= (1.11 \times 10^{-5} \text{ m}^3\text{/sec} / 0.44 \text{ m/sec})^{1/2} = 5.02 \times 10^{-3} \text{ m} \\ &= 197.7 \text{ mil} \end{aligned}$$

Since the geonet has a minimum thickness of 200 mil, the geonet can handle the flow.

The smallest cell is 17.7 acres, so the flow per cell is:

$$\begin{aligned} Q_{\text{Total}} &= 253.8 \frac{\text{gallons}}{\text{day}} * 17.7 \text{ ac} \\ &=> 4,492.3 \frac{\text{gallons}}{\text{day}} \text{ per cell} \end{aligned}$$

*Committee*  
*Boyer Comm*  
*8/7/03*

**Boesch, Julia**

**From:** Juanitta Clem [ClemJ@etminc.com]  
**Sent:** Tuesday, December 27, 2005 9:22 AM  
**To:** Boesch, Julia  
**Cc:** gmathes@wm.com  
**Subject:** Trail Ridge Landfill

Dear Julia -

Please see the attached first and last pages of the December 13, 2002 RAI response letter. The last page discusses the closure issues and references Attachments G and H. I have included the certification in those attachments for your reference. Please let me know if you need anything more.

**Juanitta Bader Clem, P.E.**  
**England, Thims & Miller, Inc.**  
**(904) 265-3181 (direct)**  
**(904) 646-9485 (fax)**

<<AR-M455N\_20040830\_062755.pdf>>

(25 acres)  
Accepted closures  
pre 2004. Includes  
certification forms  
w/ some approval  
letters (apparently  
pre 1999 we did not do  
any approval letters.  
However, during permit renewal  
it was Mary Nogas' recollection  
that the Dept had approved  
them - Total was 25 acres)  
pre 2005.

12/27/2005

DEP003191



# England-Thimms & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • GIS • LANDSCAPE ARCHITECTS

December 13, 2002

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

#### 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.

Reference: Trail Ridge Landfill - Second Permit Renewal  
FDEP Permit No. 0013493-001 and 0013493-002  
FDEP File Numbers 13493-010 and 13493-011  
ET&M No. B02-25-3

Dear Ms. Nogas:

We have received your letter dated October 25, 2002 regarding the referenced project. On behalf of Trail Ridge Landfill, Inc., please find the following response to your request for additional information:

Attachment 1, Review Memorandum, dated October 25, 2002, prepared by Julia Boesch.

1. *Since you are proposing to recirculate leachate, please publish notice.*

The applicant hereby withdraws the request to recirculate leachate.

2. *Greg Mathis signed the application as a General Manager; however, the Florida Department of State, Division of Corporations web page does not list him as an officer/director. Please provide documentation demonstrating that he is an officer or director of Trail Ridge Landfill, Inc. or provide a letter from an officer/director giving him the required authorization.*

Charles Campagna, Vice President of Waste Management Holdings, Inc signed the application. Trail Ridge Landfill, Inc. is a wholly owned subsidiary of Waste Management Holdings, Inc. We recommend that the Department review the 09/16/2002 Corporate Annual Report which is a "Document Image" on the Florida Department of State, Division of Corporations web page for Trail Ridge Landfill, Inc. On the second page of the report, Mr. Charles J. Campagna is listed as Vice President, as stated on the application.

3. *If you wish to operate from 5:00 a.m. to 10:00 p.m., as indicated in item B 15 of the application form, please address how you will illuminate the site during the non-daylight hours. Please note that at least 3 candle-feet of illumination are required.*

Please be advised that this application is a permit renewal application. The above condition is an existing permit condition; the facility is in compliance with the existing permit condition and has on-site light plants to for use during non-daylight hours.

Reference: Trail Ridge Landfill - Second Permit Renewal  
ET&M No. E02-25-3

72. *The following comments concern the cost estimates:*

- a. *Concerning your cost estimates, you indicate in your application form that the disposal area is 148 acres, which equates to 716, 320 square yards; however, your estimates are for a smaller area. Please address and revise your estimates as appropriate.*

Please note that on Page 1 of the Financial Assurance Cost Estimate Form, 119 acres is the area used in the closure estimates. The reason 119 acres rather than 144 acres is used is because 25 acres have received final cover in accordance with the closure-as-you-go requirements. There have been four incremental closure projects at the site and each closure project has been documented and certified to the Department. Please see Attachment G which contains correspondence and the Closure QA/QC Plan associated with each closure project. Also, please note that Appendix M of the First Permit Renewal contained the QA/QC Plan for Side Slope Closure and Appendices J and K of the Second Permit Renewal (the current application) contains the QA/QC Plans for Side Slope Closure and Top Area Closure, respectively. Also, please see Attachment H which contains a letter from the Department accepting the Closure Construction Certification for Side Slope Units 1-4 (Partial), 7-8 (Partial), 12-17 (Partial) and 18-20.

- b. *Please check the amount of leachate expected to be collected during the long-term care period. Since you are proposing to recirculate leachate, the disposal area is expected to be wetter than normal and more leachate, therefore, may be collected after closure. Please revise your costs accordingly.*

The leachate recirculation has been withdrawn.

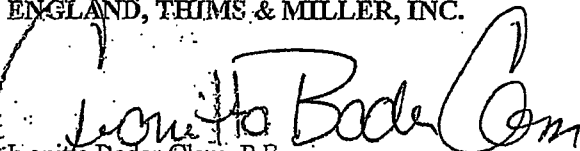
- c. *Please confirm that all cost estimates are for third party costs that the department may incur if tasked with the responsibility of maintaining and monitoring the facility.*

The cost estimates are third party cost estimates.

I sincerely hope this response will provide the Department all the necessary information. I would respectfully request that any questions regarding this application be directed to me.

Sincerely,

ENGLAND, THIMS & MILLER, INC.

  
Juanita Bader Clem, P.E.  
Vice President

Attachments

cc: Greg Mathes  
Achaya Kelpenda  
Chris Pearson

 England-Thims & Miller, Inc.

**ATTACHMENT G**  
**Closure Documentation**

**First Closure**

**Side Slope Units 5, 6, 7 (Partial) and 8 (Partial)**

**Certified February 3, 1994**



# England-Thims & Miller, Inc.

Consulting & Design Engineers  
3131 St. Johns Bluff Road So. - Jacksonville, FL 32246  
904-642-8990

## PRINCIPALS

James E. England, P.E., President  
Robert E. Thims, V.Pres., Sec.  
Douglas C. Miller, P.E., V. Pres.  
N. Hugh Mathews, P.E., V. Pres.

February 3, 1994

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

Mr. Jai P. Prasad, P.E.  
Stormwater Section  
Department of Environmental Regulation  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256

Reference: Trail Ridge Landfill -Side Slope Closure  
Side Slope Units 5, 6, 7 (Partial) and 8 (Partial)  
FDER Permit No. SC16-184444  
ET&M No. E93-143-3 (Certification File)

Dear Ms. Nogas and Mr. Prasad:


Please find herewith the Certification of Construction Completion for the Trail Ridge Landfill - Side Slope Closure. The construction Quality Assurance/Quality Control documentation and As-Built drawing are attached.

Subject to your site inspection, Trail Ridge Landfill, Inc. respectfully requests your written verification that this closure is accepted by the Department.

This is the certification for the Trail Ridge Landfill closure construction of Side Slope Units 5, 6, 7 (partial) and 8 (partial) which commenced on September 7, 1993. Should you have any questions concerning this certification, please do not hesitate to contact me or Juanita Clem.

Sincerely,

ENGLAND, THIMS & MILLER, INC.

  
Douglas C. Miller, P.E.  
Vice President

Attachments: Certification of Construction Completion  
As-Built Drawing  
Quality Assurance and Quality Control Documentation

cc: : Greg Mathes w/attachments  
Scott McCallister w/attachments  
Chris Pierson w/attachments

DEP - 4 copies  
City - 2 copies  
Low Eng. - 1 copy



STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

CERTIFICATION OF CONSTRUCTION COMPLETION  
OF A SOLID WASTE MANAGEMENT FACILITY

DER Construction Permit No.: SC16-184444 County: Duval  
Name of Project: Trail Ridge Landfill - Side Slope Closure of Units 5, 6, 7 & 8  
Name of Owner: City of Jacksonville; Trail Ridge Landfill, Inc. - Operator/Permittee  
Name of Engineer: England, Thims & Miller, Inc.  
Type of Project: Class I Landfill - Incremental Closure  
Closure of Units 5, 6, 7 (Partial) and 8 (Partial)  
Cost: Estimated \$ 870,950 Actual \$ 738,700+/-  
Site Design: Quantity: 2,600 (Avg) Ton/day Site Acreage: 5.0+/- Acres  
Population: 659,000+/- (1990) Dumping Fees: \$ 55 /Ton  
Deviations from Plans and Application Approved by DER: Deviations are shown  
on the As-Built Drawing and/or outlined in the attachment. The As-Built survey  
was prepared by Sunshine State Surveyors, Inc. and reviewed by England, Thims  
and Miller, Inc.

Water Monitoring Data Submitted to DER, Date: Quarterly  
Address and Telephone No. of Site: 5110 U.S. Highway 301, Baldwin, FL 32234  
Phone: (904) 289-9100

Name(s) of Site Supervisor: Greg Mathes  
Date Site Inspection is requested: As soon as possible

This is to certify that, with the exception of deviation noted above, the  
construction of the project has been completed in accordance with the plans  
authorized by Construction Permit No.: SC16-184444 and Dated: 12-24-91  
Modifications

England, Thims & Miller relied upon the information and certifications provided  
by Law Engineering and Sunshine State Surveyors, Inc. in this certification.

Date: 2-4-94

[Signature]  
Signature of Professional Engineer

TRAIL RIDGE LANDFILL  
SIDE SLOPE CLOSURE - UNITS 5, 6, 7 AND 8  
DEVIATIONS FROM PLANS AND APPLICATION

1. Downcomer Pipe D-21 was constructed with stubouts on the uphill (southern) side only. Since the terraces were constructed with a minimum 1% slope, stubouts on the downhill (western) side were deemed unnecessary.
2. Side Slope Units 7 and 8 could not be completed because the solid waste has not been placed to complete the units. (Note: Completion of Units 7 and 8 required waste disposal in Cell C which was only recently (Nov. 5, 1993) accepted by the Department). These units were completed to Sta. 96+25 as shown on the As-Built Drawing.
3. The invert on Downcomer Pipe D-21 in Structure S-21 was raised to Elevation 117.8 +/- . It should be noted that the crown of the pipe remains below the throat of the inlet.
4. Terrace 1 at Downcomer D-19 has a depth of 2.11 feet rather than the design depth of 2.5 feet. However, based upon a 25-year storm event and the drainage area of 0.62 acres, the terrace will have over 1.0 foot of freeboard and therefore, meets the design intent.
5. For safety reasons, the gas well was install with a 24-inch borehole.

**Second Closure**  
**Side Slope Units 9, 10 and 11**  
**Certified April 17, 1995**



# England-Thims & Miller, Inc.

Consulting & Design Engineers  
3131 St. Johns Bluff Road S., Jacksonville, FL 32246  
Tel: (904) 642-8990 Fax: (904) 646-9485

## Principals

James E. England, P.E., Pres.  
Robert E. Thims, Exec. V.P.  
Douglas C. Miller, P.E., Exec. V.P.  
N. Hugh Mathews, P.E., Exec. V.P.

April 17, 1995

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 -Side Slope Closure  
Side Slope Units 9,10 and 11  
FDER Permit No. SC16-184444  
ET&M No. E94-17-3 (Certification File)

Dear Ms. Nogas:

Please find herewith the Certification of Construction Completion for the Trail Ridge Landfill - Side Slope Closure. The Construction Quality Assurance/Quality Control documentation and As-Built drawings are attached.

We request a site inspection on May 1, 1995 at 9:00 A.M. Subject to your site inspection, Trail Ridge Landfill, Inc. respectfully requests your written verification that this closure is accepted by the Department.

This is the certification for the Trail Ridge Landfill Closure construction of Side Slope Units 9, 10 and 11 which commenced on May 23, 1994. Should you have any questions concerning this certification, please do not hesitate to contact me or Juanitta Clem.

Sincerely,

ENGLAND, THIMS & MILLER, INC.

  
Douglas C. Miller, P.E.  
Vice President

DCM:d

Attachments: Certification of Construction Completion  
As-Built Drawing  
Quality Assurance and Quality Control Documentation

cc: Greg Mathes w/attachments  
Scott McCallister w/attachments  
Chris Pierson w/attachments  
DEP Stormwater Section w/attachments



# Florida Department of Environmental Regulation

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

DER Form # 17-201-30001	
Certification of Construction Completion of a	
Form Title	Solid Waste Management Facility
Effective Date	January 8, 1995
DER Application No.	(Filled in by DER)

## Certification of Construction Completion of a Solid Waste Management Facility

DER Construction Permit No: SC16-184444 County: Duval  
Name of Project: Trail Ridge Landfill - Side Slope Closure of Units 9, 10 and 11  
Name of Owner: City of Jacksonville; Trail Ridge Landfill, Inc. - Operator/Permittee  
Name of Engineer: England, Thims & Miller, Inc.  
Type of Project: Class I Landfill - Incremental Closure  
Closure of Units 9, 10 and 11  
Estimate \$ N/A Actual \$ 606,041 +/-  
Design: Quantity: 2,600 (Avg) ton/day Site Acreage: 2.3 +/- Acres  
Deviations from Plans and Application Approved by DER: Deviations are shown on the As-Built  
Drawing and/or outlined in the attachment. The As-Built survey was prepared by Sunshine  
State Surveyors, Inc. and reviewed by England, Thims & Miller, Inc.  
Address and Telephone No. of Site: 5110 U.S. Highway 301, Baldwin, FL 32234  
Phone (904) 289-9100  
Name(s) of Site Supervisor: Greg Mathes  
Date Site inspection is requested: May 1, 1995 @ 9:00 AM

This is to certify that, with the exception of any deviation noted above, the construction of the  
project has been completed in substantial accordance with the plans authorized by Construction  
Permit No.: SC16-184444 and Dated: 12-24-91  
Modifications

England, Thims & Miller relied upon the information and certifications provided by Law:  
Engineering and Sunshine State surveyors, Inc. in this certification.

Date: 4/19/95

[Signature]  
Signature of Professional Engineer

**TRAIL RIDGE LANDFILL  
SIDE SLOPE CLOSURE - UNITS 9, 10 AND 11  
SUBSTANTIAL DEVIATIONS FROM PLANS AND APPLICATION**

1. For safety reasons, the gas well was installed with a 24-inch borehole.
2. The screened interval on the gas well extends up to the top of daily cover (6" above the top of waste). Nevertheless, gas well will function properly as a passive vent.

**Third Closure**

**Side Slope Units 1-4 (Partial), 7-8 (Partial), 12-17 (Partial) and 18-20**

**Certified December 5, 1997**



# England-Thims & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

## Principals

James E. England, P.E., Pres.

Robert E. Thims, Exec. V.P.

Douglas C. Miller, P.E., Exec. V.P.

N. Hugh Mathews, P.E., Exec. V.P.

December 5, 1997

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

Mr. David P. Apple, P.E.  
Stormwater Section  
Department of Environmental Protection  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256

Reference: Trail Ridge Landfill - Incremental Closure  
Side Slope Units 1-4 (Partial), 7-8 (Partial), 12-17 (Partial) and 18-20  
FDEP Permit No. SC16-184444  
ET&M No. E96-92-4

Dear Ms. Nogas and Mr. Apple:

Please find herewith the Certification of Construction Completion for the Trail Ridge Landfill, Incremental Closure, as well as certification of the stormwater pond modification. The construction Quality Assurance/Quality Control documentation and As-Built drawings are attached.

Subject to your site inspection, Trail Ridge Landfill, Inc. respectfully requests your written verification that this closure and stormwater modification are accepted by the Department.

This is the certification for the Trail Ridge Landfill closure construction of Side Slope Units 1-4 (Partial), 7-8 (Partial), 12-17 (Partial) and 18-20 which commenced on April 21, 1997. Should you have any questions regarding these certifications, please do not hesitate to give me a call.

Sincerely,

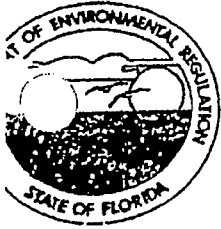
ENGLAND, THIMS & MILLER, INC.

Juanitta Bader Clem, P.E.  
Vice President

Attachments: Certification of Construction Completion of a Solid Waste Management Facility  
MSSW/Stormwater Certification  
Quality Assurance and Quality Control Documentation  
As-Built Drawings  
Pump Test and Construction Drawing for Stormwater System Modification

cc: Greg Mathes w/attachments  
Scott McCallister w/attachments  
Chris Pearson w/attachments





Florida Department of Environmental Regulation

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

DER Form 2-17-701-900121
Form Title <u>Continuation of Construction Completion of a Solid Waste Management Facility</u>
Effective Date <u>January 8, 1991</u>
DER Application No. _____ (Filled in by DER)

## Certification of Construction Completion of a Solid Waste Management Facility

DER Construction Permit No: SC16-184444 County: Duval

Name of Project: Trail Ridge Landfill - Incremental Closure

Name of Owner: City of Jacksonville

Name of Engineer: England, Thims & Miller, Inc.

Type of Project: Class I Landfill - Incremental Closure

Side Slope Units 1-4 (Partial), 7-8 (Partial), 12-17 (Partial) and 18-20

Cost: Estimate \$ 1,800,000 Actual \$ 1,569,240

Design: Quantity: 659,000 +/- (1990) ton/day Site Acreage: 12 +/- Acres

Deviations from Plans and Application Approved by DER: \_\_\_\_\_

Deviations are shown on the As-Built Drawing and/or outlined in the attachment. The

As-Built Survey was prepared by Sunshine State Surveyors and reviewed by

England, Thims & Miller, Inc.

Address and Telephone No. of Site: 5110 U.S. Highway 301, Baldwin, FL 32234

Phone: (904) 289-9100

Name(s) of Site Supervisor: Greg Mathes

Date Site inspection is requested: As soon as possible

This is to certify that, with the exception of any deviation noted above, the construction of the project has been completed in substantial accordance with the plans authorized by Construction Permit No.: SC16-184444 Dated: 12-24-91

England, Thims & Miller, Inc. relied upon the information and certifications provided by Law Engineering and Sunshine State Surveyors, Inc. in this certification.

Date: Dec. 3, 1997

Guionetta Baden Clem  
Signature of Professional Engineer

**TRAIL RIDGE LANDFILL  
INCREMENTAL CLOSURE  
UNITS 1-4 (Partial), 7-8 (Partial), 12-17 (Partial) and 18-20**

**DEVIATIONS FROM PLANS AND APPLICATION**

1. The final grades were adjusted to accommodate settlement during closure construction. Adjustments are noted on the As-Built drawings.
2. The gravel for the gas vents was modified from FDOT No. 4 Course Aggregate (1/2" - 2.5") to FDOT No. 3 Course Aggregate (3/8" - 2.0"). The bentonite for the gas well plug was modified from requiring at least 50 percent pass the No. 200 sieve to a hydraulic conductivity no greater than  $1.0 \times 10^{-8}$  cm/sec. As explained in the May 8, 1997 letter to the Department, these modifications do not change the design intent of the gravel and the QA/QC Plan was modified to correspond to this change.
3. The density testing of the initial cover material was revised to correlate to the type of soil material - sandy soil materials with a Modified Proctor and clayey soil materials with a Standard Proctor. Please see the revised QA/QC Plan in Section I.



# Department of Environmental Protection

Lawton Chiles  
Governor

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

Virginia B. Wetherell  
Secretary

January 28, 1998

Mr. Greg Mathes, Division President  
Trail Ridge Landfill, Inc.  
5110 U.S. Highway 301  
Baldwin, Florida 32234

Dear Mr. Mathes:

Trail Ridge Landfill  
Closure Construction Certification for Side Slope Units 1-4 (Partial), 7-8 (Partial), 12-17  
(Partial) and 18-20  
DEP Permit Number 0013493-002-SC  
Duval County - Solid Waste

The Department acknowledges receipt of the following documents submitted to comply with the requirements of the subject permit and the requirements of Florida Administrative Code Chapter 62-701:

1. "Trail Ridge Landfill Incremental Closure Quality Assurance and Quality Control Documentation for Units 1-4 (Partial), 7-8 (Partial), 12-17 (Partial) and 18-20," prepared by England-Thims and Miller, Inc., and LAW Engineering and Environmental Services, Inc., dated December 5, 1997;
2. "Certification of Construction Completion of a Solid Waste Management Facility," signed and sealed on December 3, 1997 by Juanitta Bader Clem, P. E., received December 5, 1997; and
3. "Specific As-Built Survey of Trail Ridge Landfill Incremental Closure," prepared by Sunshine State Surveyors, Inc., signed and sealed on October 3, 1997 by Joseph Leslie Reynolds III, Registered Surveyor.

In addition, Department staff conducted a closure construction completion inspection of the subject side slope units on January 26, 1998. Based on the review of the above documents and the result of the inspection, closure construction of the subject side slope units, including construction of active gas extraction well numbers W-5, W-8, W-9, W-10, W-17, W-18, W-25 and W-35, has been found acceptable. The Permittee shall maintain the integrity of the side slope units, extraction wells and all associated structures as part of the facility's normal operation. Please contact me at the above letterhead address or at telephone number (904) 448-4320, if you have any questions regarding this matter.

Sincerely,

Mary C. Nogas, P. E.  
Solid Waste Section Supervisor

MCN:fd

cc: Juanitta Bader Clem, P. E. ✓  
Fred Wick, DEP, Tallahassee

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*Printed on recycled paper.*

DEP003207

**Forth Closure**  
**Side Slope Units 1-4 (Complete) and 21-23**  
**Certified July 26, 2002**



# England-Thims & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

July 26, 2002

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

#### Principals

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

Reference: Trail Ridge Landfill – Incremental Closure  
Side Slope Units 1-4 (Complete) and 21-23  
FDEP Permit No. 0013493-002-SC  
ET&M Project No. E00-117-04

Dear Ms. Nogas:

Please find herewith the Certification of Construction Completion for the Trail Ridge Landfill, Incremental Closure of Side Slope Units 1-4 (Complete) and 21-23. The Construction Quality Assurance/Quality Control documentation and As-Built Drawings are attached.

Subject to your site inspection, Trail Ridge Landfill, Inc. respectfully requests your written verification that the Department accepts this incremental closure.

This is the certification for the Trail Ridge Landfill closure construction of Side Slope Units 1-4 (complete) and 21-23, which commenced on November 12, 2001. Should you have any questions, please feel free to give me a call.

Sincerely,

ENGLAND, THIMS & MILLER, INC.

Juanita Bader Clem, P. E.  
Vice President

Attachments: Certification of Construction Completion of a Solid Waste Management Facility  
Quality Assurance and Quality Control Documentation  
As-Built Drawings

cc: Greg Mathes, with attachments  
Chris Pearson, with attachments  
Jim Horton, with attachments



Florida Department of Environmental Protection  
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

Effective Date: \_\_\_\_\_  
DEP Application No. \_\_\_\_\_  
(Filed by DEP)

## Certification of Construction Completion of a Solid Waste Management Facility

DEP Construction Permit No: 0013493-002-SC County: Duval  
Name of Project: Trail Ridge Landfill - Incremental Closure  
Name of Owner: City of Jacksonville  
Name of Engineer: England, Thims & Miller, Inc.  
Type of Project: Class I Landfill - Incremental Closure  
Side Slope Units 1-4 (Complete) and 21-23  
Cost: Estimate \$ \_\_\_\_\_ Actual \$ 1,140,809  
Site Design: Quantity: 3,500 ton/day Site Acreage: 4± Acres  
Deviations from Plans and Application Approved by DEP: \_\_\_\_\_  
Deviations are shown on the As-Built Drawing and/or outlined in the attachment.  
The As-Built Survey was prepared by Robert M. Angas Associates, Inc. and  
reviewed by England, Thims & Miller, Inc.  
Address and Telephone No. of Site: 5110 U.S. Highway 301, Baldwin, FL 32234  
Phone: (904)289-9100  
Name(s) of Site Supervisor: Greg Mathes  
Date Site inspection is requested: As soon as possible  
This is to certify that, with the exception of any deviation noted above, the construction of the  
project has been completed in substantial accordance with the plans authorized by Construction

Permit No.: 0013493-002-SC Dated: 11-25-97

England, Thims & Miller, Inc. relied upon the information and certifications  
provided by Law Engineering and Robert M. Angas Associates, Inc.

Date: 7/26/02

Jonathan Bode Cam  
Signature of Professional Engineer

#43245

Page 1 of 1

Northwest District  
180 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  
841-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-881-6800

REGfiles: 10/1998

DEP003210

**TRAIL RIDGE LANDFILL  
INCREMENTAL CLOSURE  
UNITS 1-4 (COMPLETE) AND 21-23**

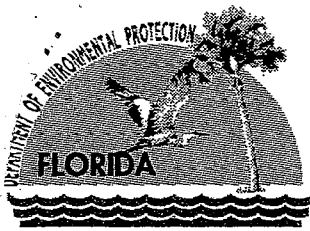
**DEVIATIONS FROM PLANS AND SPECIFICATIONS**

1. Some final grades were adjusted to accommodate settlement during closure construction. Adjustments are noted on the As-Built Drawings.
2. An alternate aggregate material in lieu of the specified FDOT No. 3 coarse aggregate was used to backfill Gas Wells W-26 and W-27. As explained in the attached December 3, 2001 letter to the Department, the modification does not change the design intent of the aggregate.
3. The side slope closure areas have been sodded but the sod has not been established. Due to the field conditions at the sod farms and the field conditions at the site when the sod was placed, the sod appears stressed. If the existing sod is not established, then additional measures will be taken to establish a stand of grass (either by resodding or seeding).

## **ATTACHMENT H**

### **Department Letter of Acceptance for Side Slope Closure**





Jeb Bush  
Governor

# Department of Environmental Protection

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

David B. Struhs  
Secretary

August 18, 2003

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

Dear Mr. Mathes:

Trail Ridge Landfill, Inc  
Permit number 0013493-002-SC  
Partial closure units 21-23 and units 1-4 (complete)  
Duval County - Solid Waste

The Department acknowledges receipt of the following documents submitted pursuant to Florida Administrative Code Chapter 62-701 and Specific Condition Number 47 of the subject Permit:

1. Trail Ridge Landfill Incremental Closure Quality Assurance and Quality Control Documentation for Units 1-4 (complete) and 21-23, including the Certification of Construction Completion of a Solid Waste Management Facility, signed and sealed by Juanitta Bader Clem, P.E, prepared by England, Thims and Miller, Inc., and Drawing sheets, CI-3A and CI-6, signed and sealed by Joseph Leslie Reynolds, professional surveyor, received July 26, 2002.

The Department has reviewed the aforementioned Document, which addresses the closure of units 1-4, and of units 21-23, reflected on Drawing sheet number 14, provided October 28, 1996, as "Closure Phase 2." Based on the department's review, the department has determined the closure construction of partial closure units 21-23 and units 1-4 (complete) to be acceptable.

If you have any comments concerning this matter, please contact Julia Boesch at the letterhead address or telephone number (904) 807-3356.

Sincerely,

Mary C. Nogas, P. E.  
Solid Waste Supervisor

MCN:jb:ml

cc: Juanitta Bader Clem, P.E., England, Thims and Miller, Inc.

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DEP003213