

Brantley, Anna

From: Brantley, Anna
Sent: Friday, April 29, 2011 11:46 AM
To: boldissarb@hillsboroughcounty.org; 'ruizle@hillsboroughcounty.org';
'carlos.restrepo@hdrinc.com'; 'Cope, Ron'; Moore, Ronni; Pelz, Susan; Amanda
Corsentino; Commissioner Mark Sharpe; Commissioners Ken Hagan; Representative
Betty Reed; Representative Darryl Rouson; Representative Greg Steube; Representative
James Grant; Representative Janet R. Cruz; Representative Jim Boyd; Representative
Rachel V. Burgin; Representative Rich Glorioso; Representative Seth McKeel;
Representative Shawn Harrison; Representative Will Weatherford; Sandy Chan; Senator
Arthenia Joyner; Senator Jack Latvala; Senator Jim Norman; Senator Ronda Storms;
Steve McGlocklin
Cc: Madden, Melissa
Subject: Hills SELF 35435-017-SO-MM permit mod-SWD-29-41193.final.04292011.pdf
(SECURED) - Adobe Acrobat Professional
Attachments: Hills SELF 35435-017-SO-MM permit mod-SWD-29-41193.final.04292011

Attached please find Modification of Permit for the subject Solid Waste Facility. You will only receive this electronic copy of the document. Hard copy was sent via US Certified Mail.

NOTE: If you have questions concerning the content of the document, please contact the DEP permit processor melissa.madden@dep.state.fl.us

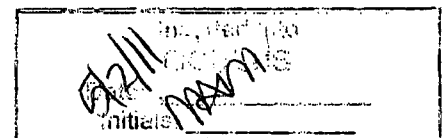
Acrobat Reader 6.0 or greater is required to read this document. It is available for downloading at:
<http://www.adobe.com/products/acrobat/readstep.html>

If I may be of assistance, please contact me.

Anna

Anna Brantley
Administrative Assistant II
FL DEP / SWD / Waste Management
13051 North Telecom Parkway
Temple Terrace FL 33637-0629
Tel: 813/632-7600, Ext. 377
Fax: 813/632-7664
anna.brantley@dep.state.fl.us

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Hershel T. Vinyard Jr 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.



Brantley, Anna

From: JOYNER.ARTHENIA.WEB [JOYNER.ARTHENIA.WEB@flsenate.gov]
Sent: Friday, April 29, 2011 11:46 AM
To: Brantley, Anna
Subject: Thank you for taking the time to contact me.

Thank you for taking the time to contact me. Many constituents e-mail me to share their views on issues or to request assistance in resolving a concern. Due to the large volume of Internet mail that I receive, I am sending this automated response to confirm that your e-mail was received. This response is automatically sent each time I receive mail on my e-mail account.

I appreciate you taking the time to express your views and apologize for the expediency of this response. I want to assure you that I review all the mail that I receive. I value your input and welcome your participation in the legislative process.

If you are a resident of District 18 and would like a more formal response, please be sure you have provided me with your name, address and phone number so that I may better serve you. If you would like to contact my office by telephone, you may call my District office at (813) 233-4277 or my Tallahassee office at (850) 487-5059.

Sincerely,

Arthenia L. Joyner

Arthenia L. Joyner

State Senator, District 18

Mel,
I forgot to
set notification
on this one. Too many
interruptions

Brantley, Anna

From: Weatherford, Will [Will.Weatherford@myfloridahouse.gov]
Sent: Friday, April 29, 2011 11:47 AM
To: Brantley, Anna
Subject: Thank You for Writing

I would like to take this opportunity to acknowledge and thank you for your e-mail. I appreciate you taking the time to contact me and express your thoughts and concerns. While I am unable to respond to each correspondence personally due the large volume of e-mail my office receives, they do help me to know what issues are of concern to you.

If you live in House District 61 and are requesting assistance, please contact my office below:

28963 S.R. 54, Suite A
Wesley Chapel, FL 33543
(813) 558-5115 - Phone
(813) 558-5117 - Fax

Thank you again for contacting me.

Sincerely,



Will Weatherford, State Representative
District 61

Memorandum

Florida Department of Environmental Protection

PERMIT COVER MEMO

TO: x Pamala Vazquez, Program Administrator

FROM/THROUGH: WVR 4/28/11
William Kutash ENVIRONMENTAL ADMINISTRATOR
Susan Pelz, P.E. 4/27/11 SOLID WASTE MANAGER
Melissa Madden mm SOLID WASTE PERMITTING

DATE: April 25, 2011

FILE NAME: Hillsborough County Southeast Landfill
Operation Permit Modification

PERMIT MOD #: 35435-017-SO/MM
PERMIT #: 35435-014-SO/01
COUNTY : Hillsborough

PROGRAM : Solid Waste

TYPE OF PERMIT ACTION: ISSUE FINAL PERMIT

PERMIT SUMMARY: This permit modification application is to include updates to the Leachate Management Plan to reflect as-built conditions of the facility's leachate systems.

PROFESSIONAL RECOMMENDATION: X APPROVE DENY

EVALUATION SUMMARY: The applicant has provided sufficient information to demonstrate compliance with Department rules to allow issuance of the permit modification.

TIH=454; TTP=73 (to 04/25/2011)		TTP
Application rec'd	01/27/10	
RAI #1 sent	02/25/10	30
RAI #1 response rec'd	03/31/10	
RAI #2 sent	04/29/10	30
RAI #2 response rec'd	04/13/11	
Application complete	04/13/11	
Final Permit routed for signature	04/25/11	13

DAY 90/30 FOR THIS ACTION IS: Day 90 = 07/11/2011

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:

Hillsborough County
Solid Waste Management Department
c/o **Mr. Barry Boldissar**, Director
601 E. Kennedy Blvd., 24th Floor
Tampa, FL 33602

NDP Mod # 35435-017-50/MM
to existing # 35435-074-50/01
Hills SELF

2. Article Number

(Transfer from service label)

7009 1410 0001 0092 0895

COMPLETE THIS SECTION ON DELIVERY

A. Signature

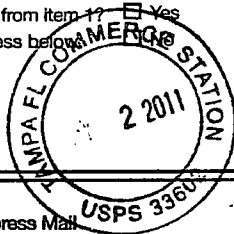
X

CLERK OF CIRCUIT COURT ☐ Agent
MAIL SERVICES ☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

- D. Is delivery address different from item 1?** ☐ Yes
If YES, enter delivery address below



3. Service Type

- ☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

7009 1410 0001 0092 0895

U.S. Postal Service™

CERTIFIED MAIL™ RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage

\$

Certified Fee

Return Receipt Fee
(Endorsement Required)

Restricted Delivery Fee
(Endorsement Required)

Total Postage

Postmark
Here

Sent To

Street, Apt. No.,
or PO Box No.
City, State, ZIP+

Hillsborough County
Solid Waste Management Department
c/o **Mr. Barry Boldissar**, Director
PO Box 1110
Tampa, FL 33601

PS Form 3800, August 2006

See Reverse for Instructions

UNITED STATES POSTAL SERVICE



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

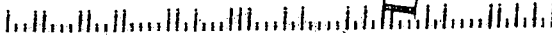
• Sender: Please print your name, address, and ZIP in this box •

Florida Department of Environmental Protection
Southwest District
c/o Melissa Madden – Solid Waste
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

Department of Environmental Protection

MAY 03 2011

Southwest District



NOTICE OF PERMIT MODIFICATION

Southeast County Class I Landfill Operation

**Permit Modification # 35435-017-SO/MM
to existing**

**Permit #35435-014-SO/01
WACS Facility #SWD/29/41193
Hillsborough County**

Mailed April 29, 2011



Florida Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-632-7600

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

CERTIFIED MAIL 7009 1410 0001 0092 0895
RETURN RECEIPT REQUESTED

April 29, 2011

NOTICE OF PERMIT

Mr. Barry M. Boldissar, Director
Hillsborough County Solid Waste Management Department
601 E. Kennedy Blvd., 24th Floor
Tampa, Florida 33602

RE: Hillsborough Southeast County Landfill
Permit Modification No.: 35435-017-SO/MM to existing
Operation Permit No. 35435-014-SO/01
WACS No.: SWD/29/41193, Hillsborough County

Dear Mr. Boldissar:

Attached is modified Operation Permit 35435-014-SO/01, issued pursuant to Section(s) 403.087(1), Florida Statutes. The following Conditions have been revised in modification number 35435-017-SO/MM:

SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
Page 1 of 38	Existing	Amended	Permit modification 35435-017-SO/MM referenced. Revises facility mailing address.
A.2.a.(3)	Existing	Amended	Revision to Leachate Management Plan referenced
A.2.c.	-	New	Additional permitting documents referenced.
C.8.g.(3)	-	New	Describes requirements for corrective action plan in the event that Action Leakage Rate is exceeded in Sections 7/8

This letter and its attachments constitute a **complete permit** and **replace** all previous permits and permit modifications for the above referenced facility.

A person whose substantial interests are affected by this modification of permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Blvd., Mail Station 35, Tallahassee, 32399-3000, within fourteen (14) days of receipt of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within fourteen (14) days shall constitute a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes.

- (a) The petition shall contain the following information;
The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of 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 the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends warrant reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, 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 decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C. Mediation is not available in this proceeding.

This modified permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rules 62-110 and 28-106, F.A.C. Upon timely filing of a petition or a request for an extension of time this transfer of permit will not be effective until further Order of the Department.

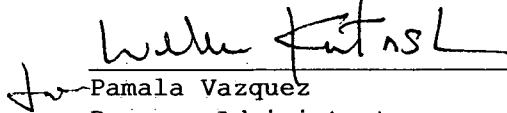
When the Order is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Blvd., Mail Station 35, Tallahassee, 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 the Final Order is filed with the Clerk of the Department.

PERMITTEE: Hillsborough SW Dept.
Mr. Barry M. Boldissar, Lector

Permit Modification No: 35435-017-SO/MM
Southeast County Class I Landfill Operation

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


for Pamala Vazquez
Program Administrator
Southwest District

Attachment

Copies furnished to:

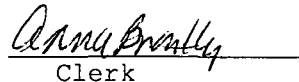
Hillsborough County Elected Officials Notification
Carlos Restrepo, P.E., HDR, Inc, Carlos.Restrepo@hdrinc.com
Larry Ruiz, Hillsborough County Solid Waste Mgmt, RuizLE@hillsboroughcounty.org
Ron Cope, HCEPC, Cope@epchc.org
Ronni Moore, FDEP OGC (e-mail)
Susan Pelz, P.E., FDEP Tampa (e-mail)
(Permit Notebook) FDEP Tampa

CERTIFICATE OF SERVICE

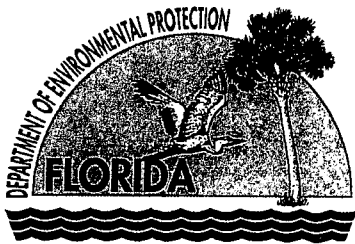
This undersigned duly designated deputy clerk hereby certifies that this **NOTICE OF PERMIT** and all copies were mailed or transmitted electronically to the addressee and the listed persons before the close of business on April 29, 2011 to the listed persons.
Clerk Stamp

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52(10), Florida Statutes, with the designated Department, Clerk, receipt of which is hereby acknowledged.


Clerk

4/29/2011
Date



Florida Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-632-7600

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

PERMITTEE

Hillsborough County
Solid Waste Management Dept.
c/o Mr. Barry M. Boldissar, Director
601 E. Kennedy Blvd., 24th Floor
Tampa, Florida 33602

PERMIT/CERTIFICATION

WACS Facility ID No: SWD/29/41193
Permit No: **35435-014-SO/01**
Date of Issue: **12/29/2008**
Expiration Date: **12/29/2013**
County: Hillsborough
Lat/Long: 27°46'25"N
82°11'15"W
Sec/Town/Rge: 13-15, 18-19, 22-24/31S/21-22E
Project: Southeast County Class I
Landfill Operation

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-330, 62-520, 62-522, 62-550, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or referenced in Specific Condition #A.2., and made a part hereof and specifically described as follows:

To operate, maintain and monitor a landfill, leachate treatment plant and related ancillary facilities (approximately 234.5 acres), referred to as Phases I-VI and Sections 7, 8, and 9 of the Southeast County Class I Landfill Facility, subject to the specific and general conditions attached, for disposal of solid waste, located 8.8 miles east of U.S. 301 on C.R. 672, southeast of Tampa, Hillsborough County, Florida. The specific conditions attached are for the operation of:

1. Class I Landfill, leachate treatment plant and system, gas collection and control system and related facilities.

Replaces Permits No.: 35435-006-SO and 35435-007-SO

**Includes modification Nos. 35435-018-SO/MM, issued 12/21/2010 and
35435-017-SO/MM, issued 04/29/2011.**

This permit contains compliance items summarized in **Attachment 1** that shall be complied with and submitted to the Department by the dates noted. If the compliance dates are not met and submittals are not received by the Department on the dates noted, enforcement action may be initiated to assure compliance with the conditions of this permit.

General Information

Phases I-VI:	
Disposal acres	162.4 acres
Lowest elevation	+113 feet NGVD (approx.) (2001)
Bottom liner design	In-situ phosphatic clay w/single 36 mil CSPE tied in as side liners
LCS design	LCS: gravel, tire chips in trenches; 8" HDPE & 8" PVC pipes to perimeter & Pump Stations A & B
Final elevation	+255 feet NGVD,
Slopes	4H:1V side slopes (exterior), 5% top
Gas collection & control system	See Permit No. 35435-016-SC/08

Section 7/8:	
Disposal acres	19.3 acres
Lowest elevation	+121 feet NGVD
Bottom liner design	Double, 60 mil HDPE
LCS design	Primary LCS piping on composite geonet
LDS design	Composite geonet
Action leakage rate (ALR)	100 gal/ac/day
Slopes	3H:1V side slopes (exterior), 5% top slope
Gas collection & control system	See Permit No. 35435-016-SC/08

Section 9:	
Disposal acres	15.2 acres
Lowest Bottom elevation of cell (secondary liner leak detection sump)	+120.0 ft. NGVD Geomembrane subliner directly below GCL and extending up to elevation +126.0 ft. NGVD to protect GCL from fluctuations in groundwater
Liner system (bottom to top)	60 mil textured geomembrane subliner, geosynthetic clay liner (GCL), 60 mil textured HDPE geomembrane, 250 mil geocomposite (non-woven GT/geonet/non-woven GT), 60 mil textured HDPE geomembrane, 250 mil geocomposite (non-woven GT/geonet/non-woven GT), 1-foot drainage sand, 1-foot tire chips
LCS drainage system	Drainage/protective sand $\geq 1 \times 10^{-3}$ cm/sec One trench draining from northeast to southwest. 8-inch SDR 11 HDPE perforated LCS piping. LCS pipe drain to sump on southwest perimeter, then pumped through side slope risers through force main to onsite Leachate Treatment Facility
LDS drainage system	Geocomposite to center trench and sump, then same as LCS
Action leakage rate (ALR)	306 gal/ac/day
Side slopes max.	3H:1V
Top elevation at final buildout (Sections 7/8/9)	max. +285.0 feet NGVD
Design life	28 months (Section 7/8/9) w/o Phases I-VI
Leachate storage tanks	One 500,000-gallon glass fused steel storage tank.
Effluent Storage tank	One above ground welded steel tank w/chemical resistant interior coating; approximately 575,000 gal. max capacity (500,000 gal. nominal capacity w/zero freeboard)

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, 403.161, 403.727, or 403.861, Florida Statutes. 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 403.087(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 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.

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.

GENERAL CONDITIONS:

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 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 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 Sections 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.

11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300, Florida Administrative Code, 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:

- (a) Determination of Best Available Control Technology (BACT)
- (b) Determination of Prevention of Significant Deterioration (PSD)
- (c) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
- (d) 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.

GENERAL CONDITIONS:

- (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.
15. When requested by the 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 the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

1. **Facility Designation.** This landfill shall be classified as a **Class I landfill and related facilities**, and shall be operated, monitored and maintained in accordance with all applicable requirements of Chapters 62-4, 62-330, 62-520, 62-522, 62-550, and 62-701, Florida Administrative Code (F.A.C.) and all applicable requirements of Department rules.

2. **Permit Application Documentation.** This permit is valid for operation of Phases I-VI and Sections 7-9 of the Class I landfill, leachate treatment plant and related ancillary facilities, in accordance with all applicable requirements of Department rules, the conditions of this permit, and in accordance with the reports, plans and information submitted by Jones Edmunds & Associates, Inc. (Jones Edmunds), unless otherwise noted, as follows:

a. Operation Permit Renewal Application... and Construction Application for the Effluent Storage Tank - Southeast County Landfill (3-ring binder) dated January 2007 (received January 17, 2007), as revised, replaced or amended (information inserted into original) dated May 2007 (received May 16, 2007), July 2007 (received July 13, 2007), January 9, 2008 (received January 10, 2008), dated and received August 8, 2008, October 7, 2008, and December 29, 2008. This information includes, but is not limited to:

- 1) Engineering Report, Parts A Through S;
- 2) Operations Plan, August 4, 2008 [Appendix B] (replaces by Op. Plan referenced in SC #A.2.b.2. below, except Appendices A-E);
- 3) Leachate Management Plan, May 2007 [Appendix C] (replaced by Leachate Management Plan referenced in SC #A.2.c.(1) below;)
- 4) Water Quality and Leachate Monitoring Requirements, August 7, 2008 [Part M]
- 5) Plan sheets titled, Southeast County Landfill Phases I-VI Operating Sequence... (18 sheets - Drawings 1-3, 8-16D, & 17-20), dated January 16, 2007;
- 6) Plan sheets titled, Southeast County Landfill Capacity Expansion Section 8 Operating Sequence... (11 sheets), dated January 16, 2007; and
- 7) Plan sheets titled, Southeast County Landfill Capacity Expansion Area Sections 7, 8, and 9 Operating Sequence... (13 sheets), dated May 2007 (received May 24, 2007).

Amended 12/21/2010 and 04/29/2011.

b. Operation Permit Modification Application Phases I-VI , Capacity Expansion Area (Sections 7, 8, and 9)... of the Southeast County Landfill (3-ring binder) dated May 19, 2010 (received May 20, 2010), as revised, replaced or amended (information inserted into original*) dated September 27, 2010 (received September 30, 2010) and dated and received October 28, 2010 [revised Phase I-VI and Sections 7, 8, and 9 Operating Sequence drawings withdrawn from application]. This information includes, but is not limited to:

- 1) Engineering Report, Parts D, G, K, and N;
- 2) Operation Plan, dated September 2010 [Attachment A] (replaces Op. Plan referenced in SC #A.2.a.(2) above; except Appendices A-E);

New 12/21/2010.

* see OCULUS for un-collated submittals

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

(Specific Condition #A.2., cont'd)

c. Leachate Management Plan Updates, Phases I-IV and the Capacity Expansion Area (Sections 7, 8, and 9), Southeast County Landfill (3-ring binder) dated December 2009 (received January 27, 2010), as revised, replaced or amended (information inserted into original*) dated March 2010 (received March 31, 2010) and dated and received April 13, 2011. This information includes, but is not limited to:

1) Leachate Management Plan, December 2009 (replaces Leachate Management Plan referenced in SC #A.2.a.(3) above).

New **04/29/2011**.

* see OCULUS for un-collated submittals

3. Permit Modifications.

a. Any construction or operation not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate. Any significant changes to the operations at the facility shall require a permit modification. Permits shall be modified in accordance with the requirements of Rule 62-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.

b. This permit authorizes the **operation** of the Phases I-VI & Sections 7-9 Class I disposal facility, the leachate treatment plant and storage tank system, the Phases I-VI & Sections 7-8 gas collection and control system) and related appurtenances.

Amended 12/21/2010.

c. This permit does not authorize the **operation** of the effluent storage tank and associated geomembrane secondary containment system, and the effluent truck loading station adjacent to the effluent storage tank until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of Construction Permit No. 35435-015-SC/08 or its successors.

2) Issuance of an ERP stormwater permit or modification that authorizes construction and operation of modifications to the stormwater management system required by the construction authorized by this permit and,

3) Documentation that the stormwater management system modifications authorized by the stormwater permit modification referenced in Specific Condition #A.c.(2) above have been constructed and approved for operation by the Department's ERP stormwater section.

4. Permit Renewal. No later than June 15, 2013, the permittee shall apply for a renewal of a 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 years as required by Rule 62-701.320(10), F.A.C. Operation permit renewal shall include, but not be limited to, an updated Operations Plan and Site Plans for sequence of filling with cross-sections of lifts, a water quality monitoring plan evaluation, and revised (not inflation-adjusted) financial assurance cost estimates.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

5. **Professional Certification.** Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes, applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.

6. **General Conditions.** The permittee shall be aware of and operate under the "General Conditions". General Conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.

7. **Permit Acceptance.** By acceptance of this Permit, the Permittee certifies that he/she has read and understands the obligations imposed by the Specific and General Conditions contained herein and also including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.

8. **Regulations.** Chapter 62-701, F.A.C., effective January 6, 2010, is incorporated into this permit by reference. In the event that the regulations governing this permitted operation are revised, the Department shall notify the permittee, and the permittee shall request modification of those specific conditions which are affected by the revision of regulations to incorporate those revisions.

Amended 12/21/2010.

9. **Prohibitions.**

a. The prohibitions of Rule 62-701.300, F.A.C., shall not be violated by the activities at this facility.

b. In the event that surface depressions which may be indicative of sinkhole activity, or subsurface instability, are discovered onsite, or within 500 feet of the site, the Department shall be notified in accordance with Specific Condition #C.6.b, below. Written notification shall be submitted **within 7 days of discovery**. The written notification shall include a description of the depression, the location and size of the depression shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. **Waste Burning.** Open burning of solid waste is prohibited except in accordance with Rule 62-701.300(3) and Chapter 62-256, F.A.C. All fires which require longer than one (1) hour to extinguish must be promptly reported to the Department in accordance with Specific Condition #C.6.b., below.

SPECIFIC CONDITIONS: PART B - Construction Requirements

1. **Construction.** All significant construction activities shall be approved by the Department prior to initiating work, unless specifically authorized otherwise.

2. **Certification of Construction Completion.** All information required by this Specific Condition shall be signed and sealed by a registered professional engineer or land surveyor as appropriate.

a. **Within sixty (60) days** after any specified construction has been completed or as otherwise specified in this permit, the following activities shall be completed and submitted by the permittee to the Department. Operation of the constructed systems, structures, equipment, etc., shall not be initiated prior to Department approval of the information required by this Specific Condition.

1) The owner or operator shall submit a Certification of Construction Completion, Form 62-701.900(2), signed and sealed by the professional engineer responsible for the construction to the Department for approval, and shall arrange for Department representatives to inspect the construction in the company of the permittee, the engineer, and the facility operator.

2) The owner or operator shall submit Record Drawings/Documents showing all changes (i.e. all additions, deletions, revisions to the plans previously approved by the Department including site grades and elevations). The Record Documents shall include as-built plans details and elevations (survey) as appropriate.

3) The owner or operator shall submit a narrative indicating all changes in plans and the cause of the deviations, and certification by the design engineer to the Department.

4) The engineer of record shall provide a report to verify conformance with the project specifications. The report including all related testing results shall be submitted to the Department along with the completion of construction documents.

SPECIFIC CONDITIONS: PART C - Operation Requirements

1. Facility Operation Requirements.

a. The permittee shall operate this facility in accordance with Rule 62-701.500, F.A.C., the Operating Sequence Drawings [ref. SC#A.2.a(5) through (7)] , Operations Plan [ref. SC#A.2.b.(2)] , and any other applicable requirements. **Amended 12/21/2010.**

1) Operation of the Waste Tire Processing Facility shall be in accordance with Chapters 62-701 and 62-711, F.A.C., and Operation Permit 126787-002-WT/02 (including modifications, if any), or its successors.

b. Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to soils, surface water or groundwater outside the liner and leachate management systems at any time during the construction or operation of this facility.

c. The permittee shall maintain and clearly stake/mark the location of the edge of the liner and maintain the locations as the landfill increases in elevation to prevent waste disposal and leachate runoff outside the geomembrane liner. The staking/markers shall be maintained at all times.

d. Top gradients of intermediate cover shall be designed to prevent ponding or low spots and minimize erosion. **Daily, on operating days**, the owner or operator shall operate the facility, maintain grades, or utilize berms and swales, to prevent ponded water within the disposal areas.

e. The Class I disposal area shall be operated to limit the leachate head to one foot above the liner.

f. Waste shall not be disposed (unloaded, spread, or compacted) during non-daylight hours, unless sufficient lighting is provided to adequately observe the materials and remove unacceptable wastes.

g. Site Inspections.

1) The owner or operator shall inspect the site for erosion and settlement (low spots and improperly graded areas) **daily on operating days** [ref. Op. Plan, Sec L.7.k]. Erosion and settlement shall be repaired in accordance with Specific Condition #C.6.

2) The owner or operator shall inspect the landfill facility for the presence of objectionable odors at the property boundary **at least weekly**. In the event that objectionable odors are detected at the property boundary, the owner or operator shall abate the odors in accordance with the procedures in Section L.9 of the Operations Plan.

3) The owner or operator shall inspect the normal traffic areas of the facility for litter **daily, on operating days** and litter will be picked up within 24 hours [ref. Op. Plan, Sec. L.7]. The property boundaries shall be inspected for litter **at least weekly**. Portable fences will be utilized as needed to keep litter from leaving the working face area [ref. Op. Plan, Secs. L.7.j & L.11.f]. Litter shall be collected and disposed of in the Class I landfill, **at least once per operating day**, or more often as necessary. In the event that the litter control program is ineffective, the operator shall notify the Department, and implement additional litter control measures **within 30 days**.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.1., cont'd)

h. In the event of fire, hurricane or other severe natural event, inoperable equipment, lack of qualified personnel, or stormwater control problems which allow prolonged (**greater than 72 hours**) contact of ponded water with waste, the facility shall cease disposing waste in the affected area until appropriate drainage has been restored.

i. Equipment. In the event of equipment breakdown or scheduled maintenance, the owner or operator shall ensure that sufficient reserve equipment is operating at the site within 24 hours of the occurrence. In the event that sufficient reserve equipment is not obtained within 24 hours, the permittee shall notify the Department in accordance with Specific Condition #C.6.b., below and provide a schedule for corrective actions.

j. Fires. In the event of a fire which requires offsite assistance from the local fire protection authorities, the Department shall be notified pursuant to Specific Condition C.6.b. below, and the owner or operator shall cease disposal of waste in the affected area until the fire has been completely extinguished, or as otherwise specified by the Department [ref. Op. Plan, Sec. L.11.e.]. The local fire protection authorities shall determine the best methods for protecting the public and extinguishing any fires and the Department will notified and provided report in accordance with Specific Condition C.6.b. below.

k. Waste streams generated by the operation or maintenance of the facility and equipment shall be managed such that any residual contaminants (such as gasoline, oil, paint, antifreeze, PCBs, etc.) shall be stored such that the residues or constituents thereof are not spilled, leaked, dumped, or otherwise discharged onto the ground or into surface or groundwaters.

2. Operating Personnel.

a. A trained operator (trained in accordance with the Section L.1. of the Operations Plan) shall be on duty at the facility whenever the facility is operating and shall be responsible for operating and maintaining the facility in an orderly, safe, and sanitary manner.

b. A sufficient number of trained spotters (at least one trained spotter) shall be at the tipping areas at all times that waste is being accepted at the facility to inspect each load of waste as it is unloaded and spread, and shall remove prohibited materials prior to processing [ref. Op. Plan, Sec. L.2.c.]. Training of spotters shall be in accordance with the Section L.1. of the Operations Plan.

c. A sufficient number of trained personnel shall be available to adequately operate the facility. In the event that a trained operator or spotter is not available at the site, the facility shall be closed and shall not accept debris. In the event that unacceptable wastes are not adequately removed from the waste prior to disposal, the permittee shall take appropriate action to ensure adequate removal. Such action may include but are not limited to personnel changes, additional training, changes in procedure, or additional trained spotters.

d. The permittee shall notify the Department in writing of a change of the County's primary on-site supervisor within 7 days of the effective start date of this new responsible individual. Training documentation shall be maintained at the landfill site, and copies shall be provided to the Department upon request.

SPECIFIC CONDITIONS: PART C - Operation Requirements

3. **Control of Access.** Access to, and use of, the facility shall be controlled as required by Rule 62-701.500(5), F.A.C. [ref. Op. Plan, Sec. L.5]. Adequate access to the working face shall be provided for all weather conditions while the facility is receiving waste for disposal.

4. **Monitoring of Waste.**

a. Wastes shall be monitored as required by Rule 62-701.500(6), F.A.C., including a load checking program and associated activities. The owner or operator shall conduct three random load checks per week at the active working face [ref. Op. Plan, Sec. L.6]. Documentation of the three random load checks, including descriptions (type and quantity) of unacceptable wastes discovered, shall be maintained on-site, and copies provided to the Department upon request [ref. SC#D.3.b(3)].

b. The permittee shall not accept hazardous waste or any hazardous substance at this site. Hazardous wastes are wastes listed in 40 CFR 261 Subpart D as hazardous or are wastes characterized in 40 CFR 261 Subpart C as hazardous. Hazardous substances are those defined in Section 403.703, Florida Statute or in any other applicable state or federal law or administrative rule. Sludges or other wastes which may be hazardous should be disposed of in accordance with Rules 62-701.300(4) and 62-701.500(6)(b), F.A.C. In the event that hazardous wastes are discovered, the Department shall be notified in accordance with Specific Condition #C.6.b. and the waste shall be managed in accordance with the procedures provided in Section L.2.c. of the Operations Plan.

c. The permittee shall maintain a program which prohibits the disposal of bulk industrial wastes which operating personnel reasonably believe to either be or contain hazardous waste, without first obtaining a chemical analysis of the material showing the waste to be non-hazardous. The chemical analysis of any such material so placed in the landfill, along with the customer's name and date of disposal, shall be kept on file by the operating authority on-site.

5. **Control of Nuisance Conditions.**

a. The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust, smoke) arising from the operation to protect the public health and welfare. Such control shall minimize the creation of nuisance conditions on adjoining property. Complaints received from the general public, and confirmed by Department personnel upon site inspection, shall constitute a nuisance condition, and the permittee must take immediate corrective action to abate the nuisance.

b. In the event that the odor control measures performed at the facility, do not sufficiently abate objectionable odors offsite, **within sixty (60) days** of initial detection, the owner or operator shall submit an odor abatement plan to the Department for approval. The odor abatement plan shall include at a minimum, a description of the proposed corrective actions and a schedule for implementation.

SPECIFIC CONDITIONS: PART C - Operation Requirements

6. Facility Maintenance and Repair.

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater and leachate management systems, leachate treatment plant, cover systems and berms, gas monitoring system, gas collection and control system, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in disposal areas shall be prevented. Erosion in the stormwater management system shall be minimized.

Amended 12/21/2010.

b. In the event of damage to any portion of the landfill site facilities, unauthorized leachate discharge, failure of any portion of the landfill systems, damaged or dry groundwater monitoring wells, damage to the liner or leachate collection, removal or treatment systems, fire, explosion, the development of sinkhole(s) or other subsurface instability at the site, landfill gas exceedances in onsite structures, etc., the permittee shall, **within 24 hours of detection**, notify the Department explaining such occurrence and remedial measures to be taken, method to prevent reoccurrence, and time needed for repairs. Written, detailed notification shall be submitted to the Department within seven (7) days following the occurrence.

c. In the event that any portion of the groundwater monitoring system is damaged or unable to be sampled (e.g. dry monitoring well), corrective actions shall be completed **within sixty (60) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department. Corrective actions which include relocation or installation of new groundwater monitoring wells shall be in accordance with Specific Condition #E.5., or as otherwise approved by the Department.

d. In the event that the stormwater or leachate management systems or liner system is damaged or is not operating effectively, corrective actions shall be implemented **within thirty (30) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department.

e. Intermediately covered areas, or areas which discharge to the stormwater management system, which exhibit significant erosion shall be repaired as specified below [ref. Op. Plan, Sec. L.7.k]:

- 1) **Within 7 days** if the soil cover materials have eroded such that greater than 50% of the soil in that location has been eroded, or
- 2) **By the end of the next working day** if waste or liner is exposed.

f. In the event that the intermediately covered side slopes exhibit chronic, "significant" erosion as defined above, a corrective action plan shall be submitted to the Department **within thirty (30) days** of written notification and request from the Department and corrective actions shall be implemented in accordance with the Department approved corrective action plan.

g. Areas which have received final cover, and which exhibit significant erosion as defined above, shall be repaired as specified in Specific Condition #C.6.e., above.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.6., cont'd)

- h. Settlement. Areas which exhibit settlement (low spots and improperly graded areas) that may cause ponding of water shall be repaired (additional soil placed, regraded, seeded and/or sodded) **within seven (7) days.**
7. **Stormwater System Management.**
 - a. The site shall have a surface water management system designed, constructed, operated, and maintained to prevent surface water from running on to waste filled areas and the mixing of stormwater with leachate, and a stormwater runoff control system designed, constructed, operated, and maintained to collect and control stormwater to meet the requirements of Chapter 62-330, F.A.C., and the requirements for management and storage of surface water in accordance with Rule 62-701.500(10), F.A.C., to meet applicable standards of Chapters 62-3, 62-302, and 62-330, F.A.C. All stormwater conveyances shall be inspected monthly and after significant (greater than 2") rainfall events to verify adequate performance. Conveyances not performing adequately shall be repaired in accordance with the procedures specified in the Operations Plan [ref. Op. Plan, Sec. L.10]. Documentation of all inspections and repairs shall be kept on file at the facility.
 - b. Maintenance of the surface water management system shall be conducted in accordance with Section L.10 of the Operations Plan.
8. **Leachate Management.**
 - a. Leachate shall be managed in accordance with the requirements of Rule 62-701.500(8), F.A.C., the facility Leachate Management Plan (LMP) [ref. SC#A.2.a.(4)], and other applicable Department rules.
 - b. Leachate which has accumulated on the surface in low areas within the active disposal area shall be removed from the disposal area within 72 hours.
 - c. In the event that the leachate level in Pump Station B exceeds 24 inches, the operation of the PPS-B pump(s) and Bubbler Pump Controller shall be evaluated. If the cause of excessive leachate in PPS-B is pump failure, a replacement pump shall be installed within 24 hours of detection of the pump failure, otherwise, the Department shall be notified in accordance with Specific Condition #C.6.b., and a corrective action plan shall be submitted for Department approval.
 - d. TPS-6 consists of a vacuum assisted pump with a 3-inch to 4-inch diameter suction line installed within the header of cleanout 4-1 to reach 600 feet into the landfill near the top of clay elevation +114 feet NGVD. TPS-6 shall remain in place, and continue to be operated and maintained as described in the Section 4.1.3 of the LMP, unless otherwise authorized by the Department.
 - e. Leachate Disposal.
 - 1) In the event that the on-site Leachate Treatment and Reclamation Facility (LTRF) is not operational, leachate shall be hauled offsite for disposal at an appropriately permitted wastewater treatment facility. No later than **thirty (30) days** prior to the expiration of any contracts or agreements for the disposal of leachate at wastewater treatment facilities, the permittee shall provide a copy of the contract renewal or the issuance of a new contract for leachate disposal.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.8.e., cont'd)

2) In the event that the primary leachate disposal facility or the LTRF becomes unable or unwilling to accept leachate for disposal, **within three (3) days** of the cessation of leachate acceptance by the POTW or LTRF, the landfill owner or operator shall notify the Department and shall explain the contingency measures which will be implemented. The contingency measures shall be implemented **within seven (7) days** of the cessation of leachate acceptance at the POTW or LTRF, or in accordance with an alternate schedule approved by the Department.

f. Leachate Quantities.

1) Leachate quantities shall be measured and recorded in accordance with the procedures specified in Sections 9.2.2 and 9.3.2 of the LMP.

2) A rain gauge located on-site shall be used to compare precipitation with leachate generation. Rainfall data, in excess of one-tenth of an inch, shall be recorded by landfill personnel on a daily basis.

3) In the event of a failure of leachate metering or pumping equipment which is not corrected within 48 hours of detection, the Department shall be notified, and corrective actions implemented in accordance with Specific Condition #C.6.b., above.

4) Leachate generation reports shall be compiled monthly and submitted to the Department quarterly, by January 15th, April 15th, July 15th and October 15th each year. Leachate generation reports shall include the number of open, intermediate and closed acres, and the quantities of leachate collected, recirculated, treated and disposed on-site, and hauled/piped off-site to a wastewater treatment facility, and daily precipitation amounts greater than one tenth of an inch.

g. Leachate Leakage Action Rates.

1) Leakage into the leakage detection systems (LDS) should not exceed 100 gal/ac/day in Sections 7/8 and 306 gal/ac/day in Section 9 [ref. LMP Sec. 9.3.3].

2) Exceedances of the leakage action rate indicate that deficiencies in the primary liner system may exist. In the event that the quantity of leachate which is removed from the LDS exceeds the action leakage rate, the Department shall be notified **within 48 hours** of discovery. A written plan for corrective action shall be submitted to the Department **within 7 days** of discovery. The approved plan of action shall be implemented within 15 days of Department approval, or in accordance with an alternate schedule approved by the Department.

3) In the event that the quantity of leachate which is removed from the Sections 7/8 LDS exceeds the action leakage rate, the corrective action plan described in Specific Condition C.8.g.(2) above, shall include design details to modify the Sections 7/8 leak detection system discharge. The method of discharge described in Appendix B of the Leachate Management Plan shall not be modified until a plan for corrective action has been submitted to and approved by the Department.

New 04/29/2011.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.8., cont'd)

h. Leachate Collection System Inspections/Maintenance.

1) The leachate collection and removal system and gravity pipelines in Phases I-VI, shall be video inspected at cleanouts 4-1, 5-1, 5-2, 5-3, 6-1 and PPS-B access pipes to verify adequate performance twice during this permit period. Force mains shall be video inspected or water pressure cleaned when the pump station performance indicates that the force mains may be obstructed. Components not performing adequately shall be cleaned and/or repaired. **By March 15, 2011 and no later than June 15, 2013**, a report summarizing the results, and copies of the videotape of this inspection shall be submitted to the Department to demonstrate adequate performance of the leachate collection and removal system. The inspection report shall include an evaluation of the effectiveness of the system, the locations of cleaning and video inspections (indicated on a Site Plan drawn to scale) and cause of all obstructions encountered, proposed corrective actions and schedule for implementation of corrective actions as appropriate. If the pipes are water-jet cleaned, the report shall include a description of the method of cleaning. The permittee shall retain a copy of the videotape at the facility for reference and shall provide a copy to the Department.

2) **No later than March 15, 2013**, the leachate collection and removal system in Sections 7-9 shall be water pressure cleaned or video inspected to verify adequate performance [ref. LMP Sec. 10.1]. Components not performing adequately shall be cleaned and/or repaired. The inspection report shall include an evaluation of the effectiveness of the system, the location (indicated on a Site Plan) and cause of obstructions encountered, proposed corrective actions as appropriate. The results of the inspection and cleaning shall be submitted to the Solid Waste Section of the Southwest District Office **no later than June 15, 2013** to demonstrate adequate performance.

3) Each pump and pump station and related sensors and controller mechanisms shall be inspected on a semi-annual basis. Pump performance shall be verified and current draw recorded. Pumps showing reduced performance shall be removed for maintenance and repair, and a replacement pump installed if required for continued compliance in accordance with Section 10 of the LMP. Documentation of all inspections shall be kept on file at the facility, and provided to the Department upon request.

4) Unless otherwise specified in this permit, the leachate collection and removal system components shall be inspected and maintained as described in the Leachate Management Plan.

i. Leachate Treatment and Removal System Operation.

1) The leachate storage tanks and effluent/leachate tank shall be inspected as required by Rule 62-701.400(6)(c)9., F.A.C., and in accordance with the conditions of this permit. The tanks, containment area, truck loadout area, and other leachate treatment and storage system appurtenances shall be inspected at least weekly for leakage or other damage [ref. LMP Secs. 5.3 & 7.3].

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.8.i., cont'd)

- 2) Biosolids and sludge from the LTRF shall be characterized at least annually, in accordance with Specific Condition #E.9.c., to demonstrate that the sludge and biosolids are non-hazardous. The sludge and biosolids shall be dewatered sufficiently (i.e. pass the paint filter test, EPA method 9095) prior to disposal in the landfill.
 - 3) The effluent depth in Pond A shall not exceed 3.7 feet. The effluent/leachate depth in Pond B shall not exceed 4.4 feet.
- j. Land Application of Leachate Treatment Plant Effluent.
- 1) Spray irrigation of effluent from the leachate treatment facility is allowed over intermediately closed portions of Phases I-VI of the landfill in accordance with Section 8.3.2 of the LMP. Under no circumstance shall treated leachate effluent be allowed to discharge as runoff to adjacent storm water systems or conveyance ditches. Treated leachate effluent shall not be sprayed during weather conditions or in quantities that may cause runoff, surface seeps, wind-blown spray, or exceedances of limits of leachate head on the liner. The spray irrigation of treated leachate effluent shall not cause ponding on landfilled areas [ref. LMP Secs. 8.3.2].
 - 2) Spray irrigation shall take place only when runoff into the onsite retention areas downgradient from the spray areas has terminated for 2 hours based on daily inspections of the influent point to each related retention area, or as follows, whichever is more restrictive [ref. LMP Secs. 8.3.2]:
 - a) At least 4 hours after a rainfall of 0.75 inch or less, or
 - b) At least 24 hours after a rainfall of 0.75 to 2.5 inches, or
 - c) At least 48 hours after a rainfall of 2.5 inches or greater
 - 3) The following shall be recorded daily [ref. LMP Secs. 8.3.2]:
 - a) Treated effluent sprayed (gal/day)
 - b) Rainfall onsite (inches/day and time/duration of rainfall occurrence)
 - c) Observed runoff influent to retention area (yes/no and inspection time)

The gallons per day sprayed shall be recorded separately for each application area. The time of day shall be reported immediately following the end of rainfall and when no observed runoff was observed in downgradient ponds and ditches prior to spraying.

- 4) Spraying shall take place on slopes no steeper than 10%; on areas of fair grass cover (as per HELP model); only between the hours of 8 a.m. and 4 p.m.; no closer than 100 feet from the liner anchor trench; and on areas that have not reached closure designed dimensions (have not received permanent final cover) [ref. LMP Secs. 8.3.2].

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.8.j, cont'd)

- 5) Leachate/effluent evaporation via truck-mounted spraying is allowed only on active-fill areas, including the working face, and areas with the required 6-inches of initial cover, and shall be applied in accordance with the procedures and restrictions in Section 8.4 of the LMP.

Amended 12/21/2010.

k. Phase I-VI Bottom Liner Clay Evaluation.

- 1) To measure and evaluate the consolidation and subsurface stability of the underlying clay bottom liner in Phases I-VI, at least **one year** before entering a particular phase for operation of subsequent lifts, as shown on the Phase I-VI Operating Sequence drawings [ref. SC#A.2.a.(5)], an in-situ, undisturbed clay sample shall be collected from beneath the lift proposed to be filled.

- 2) Clay strength testing of the in-situ, undisturbed clay sample and an evaluation of the slope stability for the lift and final cover elevations shall be conducted in accordance with procedures in Section 9.2.4 of the LMP.

- 3) The results of the clay liner strength and stability evaluation shall be submitted to the Department for approval at **least 6 months** before filling begins in a particular phase.

Amended 12/21/2010.

9. **Special Wastes Handling Requirements.**

a. The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with the procedures provided in Sections L.2.c through L.2.c.(4) of the Operations Plan; Rules 62-701.300(8) and 62-701.520, F.A.C.; and any other applicable Department rules, to protect the public safety, health and welfare. The special wastes shall be stored and managed such that discharge of contaminants to the environment is prevented. The special wastes shall be handled on a first-in, first-out basis. The special wastes shall be stored in a location which does not interfere with the sequence of filling.

b. White Goods and Scrap Metal. White goods and scrap metal removed from the incoming waste stream shall be stored adjacent to the working face and managed as described in the Operations Plan [ref. Op. Plan, Sec. L.2.c.]. White goods, which may contain chlorofluorocarbons (CFCs, such as freon), shall be stored and managed in a manner such that the CFCs are not discharged to the atmosphere. Scrap metals which may include residual contaminants such as gasoline, oil, paint, antifreeze, PCBs, etc., shall be stored and managed such that the residues or constituents thereof are not spilled, leaked, dumped, or otherwise discharged onto the soil or into surface or groundwaters. White goods which have had the refrigerant appropriately removed shall be clearly marked. White goods and lawn mowers shall be stored upright until all Freon, fuels, and oils have been removed. A maximum of 75 white goods and lawn mowers and two 40 CY roll-off containers (including processed white goods and lawn mowers) may be stored at the site at any time, and shall be removed at least **monthly (every 30 days)** [ref. Op. Plan, Sec. L.2.c].

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.9., cont'd)

c. Yard Waste/Land Clearing Debris. Yard waste/land clearing debris removed from the incoming waste stream shall be stored adjacent to the working face and managed as described in the Operations Plan [ref. Op. Plan, Sec. L.2.c.]. A maximum of one 40 CY roll-off container may be stored at the site at any time, and shall be removed at least **monthly (every 30 days)** [ref. Op. Plan, Sec. L.2.c].

d. Waste Tires. Waste tires accepted at the facility shall be managed in accordance with Chapters 62-701 and 62-711, F.A.C., and Waste Tire Processing Facility Permit No. 126787-002-WT/02 (including modifications, if any), or its successors.

e. Asbestos Containing Materials. Asbestos containing materials accepted at the facility shall be managed in accordance with the procedures in Section L.2.c.(4) of the Operations Plan.

f. Used Oil. Used oil shall not be accepted, commingled with the incoming waste stream, or disposed of at this facility. Oily wastes, sorbents, or other materials used for maintenance or to clean up or contain used oil leaks, spills, or accidental releases may be accepted for disposal as a Class I waste at this facility. Used oil removed from the incoming waste stream shall be stored in an undamaged container adjacent to the working face and managed as described in the Operations Plan [ref. Op. Plan, Sec. L.2.c.]. A maximum of 20 gallons of used oil may be stored at the working face of the landfill, and shall be removed at least **monthly (every 30 days)** [ref. Op. Plan, Sec. L.2.c].

g. Liquids Restrictions. Liquids shall not be accepted at the facility for disposal except as specified in Rule 62-701.300(10), F.A.C. and Section L.2.d.5 of the Operations Plan.

h. Lead Acid Batteries. Lead acid batteries shall not be accepted at the facility for disposal. Lead acid batteries removed from the incoming waste stream shall be stored in a secondary containment covered tray adjacent to the working face and managed as described in the Operations Plan [ref. Op. Plan, Sec. L.2.c.]. A maximum of 50 lead acid batteries may be stored at the site at any time, and shall be removed at least **monthly (every 30 days)** [ref. Op. Plan, Sec. L.2.c].

i. Motor vehicles. Motor vehicles shall not be accepted at the facility for disposal, however motor homes may be accepted at the facility and managed and disposed in accordance with the procedures in Section L.2.c.2 of the Operations Plan.

j. Shredded Waste. Shredded waste (except shredded tires [ref. Op. Plan, Sec. L.2.c.(3)]) shall not be accepted at the facility.

10. Waste Handling Requirements.

a. A sufficient number of spotters shall be utilized at the facility for removing unacceptable wastes. In the event that unacceptable wastes are not adequately removed from the waste prior to disposal, the permittee shall take appropriate action to ensure adequate removal. Such action may include but are not limited to personnel changes, additional training, changes in procedure, or additional trained spotters.

b. A trained spotter shall be positioned at the working face to inspect each load as it is being received, unloaded and as it is spread and compacted [ref. Op. Plan, Sec. L.2.c].

SPECIFIC CONDITIONS: PART C - Operation Requirements

11. **Waste Covering Requirements.** All solid waste disposed of in the Class I landfill shall be covered as required by Rule 62-701.500(7), F.A.C.

a. Initial cover shall be applied and maintained daily in accordance with Rule 62-701.500(7)(e), F.A.C., so as to protect the public health and welfare.

1) All solid waste disposed of in the Class I disposal area must be covered with at least 6 inches of compacted earth or other suitable material as approved by the Department in writing, at the end of each working day.

2) Alternate initial cover materials not identified herein shall be approved by the Department prior to use at the facility.

a) For those areas where solid waste will be deposited on the working face within 18 hours, initial cover may consist of a temporary cover or tarpaulin.

b) Waste tires that have been cut into sufficiently small parts, which means that 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, and applied in a six (6) inch compacted layer, may be used as initial cover within the bermed working area.

c) Municipal solid waste ash, or a 50% ash and 50% mulch mixture, applied in a six (6) inch compacted layer may be used as initial cover within the bermed working area.

d) A 50% soil and 50% mulch mixture applied in a six (6) inch compacted layer may be used as initial cover., in accordance with Sections L.7.e and L.7.f of the Operations Plan.

e) Ditch cleanings, stormwater sediments, and street sweepings, that are adequately dewatered and have had solid wastes removed, may be used for initial cover. Ditch cleanings, stormwater sediments, and street sweepings that will be used for initial cover shall be stored within the lined landfill footprint.

b. Intermediate cover shall be applied and maintained in accordance with F.A.C. 62-701.500(7)(f). An intermediate cover of one (1) foot of compacted earth in addition to the six (6) inch initial cover shall be applied within seven (7) days of cell completion at all landfills if final cover or an additional lift is not to be applied within 180 days of cell completion[ref. Op. Plan, Sec. L.7.g].

c. Materials that have been used for intermediate cover may be removed and reused only if the materials are free of waste [ref. Op. Plan, Sec. L.7.g].

SPECIFIC CONDITIONS: PART C - Operation Requirements

12. Working Face.

a. Pursuant to Rule 62-701.500(7)(d), F.A.C., the owner or operator shall minimize the size of the working face to minimize leachate and the unnecessary use of cover material.

b. Waste shall be spread and compacted in accordance with the Operations Plan [ref. Op. Plan, Sec. L.7.]. Slopes shall be maintained in accordance with the Operations Drawings. The working face and all above grade slopes shall be no greater (steeper) than **3H:1V [ref. Op. Plan, Sec. L.7.c.]**.

c. Interceptor berms shall be maintained around the working area to prevent leachate runoff from the working face from entering the stormwater management system [ref. Op. Plan, Sec. L.7.d.]. Runoff from outside the bermed working face area will be considered stormwater only if the flow passes over areas which have no exposed waste.

13. Method and Sequence of Filling.

a. The method and sequence of filling shall be in accordance with the Operating Sequence Drawings [ref. SC#A.2.a(5) through (7)], and as described in the Operations Plan [ref. Op. Plan, Secs. L.2.f & L.7], or as otherwise approved in writing by the Department.

b. Initial Waste Placement.

1) No disposal vehicles shall be operated directly on the liner protective layer. During the initial placement of waste in each cell, soil platforms or similar protective measures shall be placed adjacent to the working face to keep vehicles off the liner protective cover.

2) The first lift of waste shall be a minimum of four(4) feet in compacted thickness and consist of selected wastes containing no large rigid objects that may damage the liner or leachate collection system and shall be conducted in accordance with the procedures in Section L.7.b of the Operations Plan. At least 7 days prior to the initiation of waste placement in each cell, the Department shall be notified in order to allow Department observation of the select waste type and placement.

c. The owner or operator shall conduct a topographic survey of, and shall estimate the remaining disposal capacity and site life of each disposal area as required by Rule 62-701.500(13)(c), F.A.C. [ref. Op. Plan, Sec. L.13.c]. **Annually, no later than September 1st each year**, a copy of this survey, supporting capacity calculations, signed and sealed by a registered professional engineer and/or licensed professional land surveyor as appropriate shall be submitted to the Department. The survey shall demonstrate that the above-grade sideslopes are no greater than the design slopes, that the top elevation does not exceed design elevation, and that all other design features and related improvements conform to the Department-approved operating sequence drawings. The capacity estimate shall include updated design lifetime calculations.

SPECIFIC CONDITIONS: PART D - Recordkeeping

1. Report Submittals.

a. Unless specified otherwise in this permit, all submittals, notifications, or requests for permit modification shall be provided to the Southwest District Solid Waste Section, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

2. Operation Plan and Operating Record.

a. Each landfill owner or operator shall have an operational plan which meets the requirements of Rule 62-701.500(2), F.A.C. A copy of the Department approved permit, operational plan, construction reports and record drawings, and supporting information shall be kept at the facility at all times for reference and inspections [ref. Op.Plan, Sec. L.3]. Operating records as required by Rule 62-701.500(3), F.A.C., are part of the operations plan, and shall also be maintained at the site.

b. Proposed changes to the current Department-approved **Operations Plan** shall be submitted in writing to the Department for review and may require a permit modification in accordance with Specific Condition #A.3. The **Operations Plan** shall be updated as operations change and for renewal of the permit. Revised pages shall be provided as replacement pages with revisions noted (deletions may be struckthrough ~~(struckthrough)~~ and additions may be shaded (shaded) or a similar method may be used) and each page numbered with the document title and date of revision.

3. Waste Records.

a. Waste records shall be maintained as required by Rule 62-701.500(4), F.A.C. The owner or operator of the facility shall weigh each load of waste as it is received (with scales at the facility) and record, in tons per day, the amount of waste debris and material received. This information shall be compiled **monthly** and submitted to the Department (Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, M.S. 4565, Tallahassee, Florida 32399-2400) **quarterly, by January 15th, April 15th, July 15th and October 15th of each year** [ref. Op.Plan, Sec. L.4]. Waste shall not be accepted for disposal at the landfill unless weight scales are available at the facility and are in proper working condition.

b. The following reports, documents and other information shall be kept at the facility for reference, and copies shall be provided to the Department upon request:

- 1) Waste quantity reports required by Rule 62-701.500(4), F.A.C.
- 2) A log of the facility operator's inspections, and any subsequent corrective actions;
- 3) Load checking records;
- 4) Operator and spotter training certificates and other documentation; and
- 5) Log of odor complaints and corrective action.
- 6) Records as described in Rule 62-701.500(13). These records shall include all certifications for construction completion;
- 7) Documentation of incidents reported pursuant to Specific Condition C.6.;
- 8) Water quality and gas monitoring reports; and
- 9) Gas collection/control system performance testing records [ref. SC #A.2.b.(2), Sec. L.9.f].

Amended 12/21/2010.

SPECIFIC CONDITIONS: PART D - Recordkeeping

4. **Financial Assurance.** The permittee shall provide adequate financial assurance for this facility and related appurtenances in accordance with Rule 62-701.630, F.A.C.

a. All costs for closure shall be adjusted and submitted for approval **annually, by September 1st each year** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

b. Proof that the financial mechanism has been adequately funded shall be submitted **annually** to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

1. Water Quality Monitoring Quality Assurance.

a. All field work done in connection with the facility's Water Quality Monitoring Plan regarding the collection of ground water, surface water and leachate samples shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 (revised March 31, 2008, effective December 3, 2008) [or as replaced by successor SOPs], as referenced in Rule 62-160.210(1), F.A.C. All laboratory analyses done in connection with the facility's Water Quality Monitoring Plan shall be conducted by firms that hold certification from the Department of Health, Environmental Laboratory Certification Program under Chapter 64E-1, F.A.C., as referenced in Rule 62-160.300(1), F.A.C. The SOPs utilized and the laboratory's list of certified test methods and analytes must specifically address the types of sampling and analytical work that are required by the permit and shall be implemented by all persons performing sample collection or analysis related to this permit. Alternate field procedures and laboratory methods may be used if approved according to the requirements of Rules 62-160.220 and 62-160.330, F.A.C., respectively.

Amended 12/21/2010.

b. The field testing, sample collection and preservation and laboratory testing, including the appropriate quality control samples, shall be in accordance with methods approved by the Department in accordance with Rule 62-4.246 and Chapter 62-160, F.A.C. Approved methods published by the Department or as published in Standard Methods, A.S.T.M., or EPA methods shall be used.

2. Zone of Discharge.

a. The zone of discharge for this site shall extend horizontally 100 feet from the limits of the landfill liner (all active, inactive and closed waste disposal areas) or to the property boundary, whichever is less, and shall extend vertically to the bottom of the surficial aquifer.

b. 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 according to Rule 62-520.420, F.A.C., and that the ground water minimum criteria referenced in Rule 62-520.400, F.A.C., will not be exceeded outside the footprint of the landfill disposal areas.

3. Ground Water Monitor Well Locations. The ground water monitoring well network for the Southeast County Landfill (Phases I-VI, Section 7, Section 8, and Section 9) is described in the submittal entitled "Water Quality and Leachate Monitoring Requirements," prepared by JEA, dated August 7, 2008, provided as Part M of the Engineering Report [ref. SC#A.2.(a)(4)]. The active monitor well locations shown on Figure M.1 entitled "Location of Monitoring Wells, Piezometers and Surface Water Sampling Points," prepared by JEA, received August 8, 2008 **(attached)** are described as follow:

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.3., continued)

Wells associated with the monitoring of Phases I-VI

Well #	WACS Testsite #	Aquifer	Designation	Location
TH-19	821	Floridan	Background	See Figure M.1
TH-22A	19861	Surficial	Background	↓
TH-28A	19862	Surficial	Detection	↓
TH-40	822	Floridan	Horizontal Detection/ Vertical Compliance	↓
TH-57	1570	Surficial	Detection	↓
TH-58	1571	Surficial	Detection	↓
TH-65	20530	Surficial	Detection	↓
TH-66	20531	Surficial (deep)	Detection	↓
TH-66A	22961	Surficial (shallow)	Detection	↓
TH-67	20532	Surficial	Detection	↓

Wells associated with the monitoring of Sections 7, 8 and 9

Well #	WACS Testsite #	Aquifer	Designation	Location
TH-36A	20329	Surficial	Background	See Figure M.1
TH-61	20493	Surficial (deep)	Detection	↓
TH-61A	22595	Surficial (shallow)	Detection	↓
TH-64	20494	Surficial	Detection	↓
TH-68	22039	Surficial	Detection	↓
TH-69A	22958	Surficial	Detection	↓
TH-70A	22959	Surficial	Detection	↓
TH-71A	22960	Surficial	Detection	↓
TH-69 *	22596	Surficial	Abandoned	See Figure M.1
TH-70 *	22597	Surficial	Abandoned	↓
TH-71 *	22598	Surficial	Abandoned	↓

* = to be abandoned **within 90 days of issuance of permit #35435-014-SO**; documentation of well abandonment shall be submitted in accordance with Specific Condition #E.6.

Existing monitor wells TH-19A, TH-20A, TH-20B, TH-22, TH-24, TH-26, TH-30, TH-32, TH-34A, TH-35, TH-35A, TH-38B, TH-41, and TH-42, ~~and TH-56~~ shall be considered as inactive wells and reserved for future use. These inactive monitor wells and the existing piezometers P-4S, P-4D, P-5D, P-6D, P-7D, P-8D, P-11D, P-12S, P-13S, P-14S, P-15S, P-16S, P-16I, P-16D, P-17S, P-17I, P-17D and P-18S shall be included in the monthly water level measurements conducted at the Southeast County Landfill by Hillsborough County. Documentation of abandonment of TH-56 shall be submitted in accordance with Specific Condition #E.6., **within 90 days of issuance of Permit Modification #35435-018-SO/MM.**

All wells and piezometers are to be clearly labeled and easily visible at all times. Bollards or other devices shall be installed to protect the monitor wells located in areas of high traffic flow within the facility. The permittee shall keep all wells locked to minimize unauthorized access.

Amended 12/21/2010.

4. Ground Water Sampling. The locations, parameters, and frequencies specified herein represent the minimum requirements for ground water monitoring. Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must be reported at or below the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with the Class G-II ground water standards referenced in Rule 62-520.420, F.A.C., and with the ground water minimum criteria referenced in Rule 62-520.400, F.A.C. Compliance with ground water standards and minimum criteria shall be based on the analysis of unfiltered samples.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.4., continued)

a. Ground water levels shall be measured at all active and inactive monitor wells, and at all piezometers listed in Specific Condition #E.3., and surface water elevations shall be measured at staff gauges #MC1A, #MC2A, #MC3, #3A, #3B2B and #3C2 during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.8.b., to a precision of 0.01 foot. Ground water surface elevation contour maps prepared for each sampling event shall include ground water elevations (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer, and surface water elevations (using a consistent, nationally recognized datum) calculated for each staff gauge. The contour maps shall be submitted to the Department in the reports for the routine ground water sampling events (SC#E.10.) and the monitoring plan evaluations (SC#E.11.).

b. An "initial sampling event" shall be conducted **within 7 days of installation and development** of all new and replacement wells for analysis of the following parameters:

Field Parameters

Static water levels
before purging
Specific conductivity
pH
Dissolved oxygen
Temperature
Turbidity
Colors & sheens (by obs.)

Laboratory Parameters

Total ammonia - N	Iron
Chlorides	Mercury
Nitrate	Sodium
Total dissolved solids (TDS)	
Those parameters listed in	
<u>40 CFR Part 258, Appendix II</u>	

c. Routine ground water sampling events shall be conducted **quarterly** (during the periods from Jan. 1-Mar. 31, Apr. 1-June 30, July 1-Sep. 30, and Oct. 1-Dec. 31) at the background and detection wells listed in Specific Condition #E.3., for analysis of the following parameters:

Field parameters

Static water level
before purging
Specific conductivity
pH
Dissolved oxygen
Turbidity
Temperature
Colors and sheens (by obs.)

Laboratory parameters

Total ammonia - N	Iron
Chlorides	Mercury
Nitrate	Sodium
Total dissolved solids (TDS)	
Those parameters listed in	
<u>40 CFR Part 258, Appendix I</u>	

The quarterly ground water sampling events shall routinely be conducted at "shallow" surficial aquifer wells TH-61A and TH-66A. In the event that either or both "shallow" surficial aquifer wells TH-61A and TH-66A are dry or contain insufficient water to allow collection of representative ground water samples, the quarterly sampling event shall be conducted at adjacent "deep" surficial aquifer wells TH-61 and TH-66.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

5. Ground Water Monitor Well Construction. The following information shall be submitted **within 90 days of installation of all** new or replacement monitor wells, or piezometers, or as stated below:

a. Prior to the construction of all new or replacement monitor wells, and piezometers, the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.a..

b. Construction details (record drawings) for all new or replacement monitor wells and piezometers shall be provided to the Department's Southwest District Office on Department Form #62-701.900(30), Monitoring Well Completion Report (**attached**).

Amended 12/21/2010.

c. **Within 7 days of well completion and development**, each new or replacement monitor well shall be sampled for the parameters listed in Specific Condition #E.4.b., to comply with the requirements of Rules 62-701.510(8)(a) and 62-701.510(8)(d), F.A.C.

d. A surveyed drawing shall be submitted in accordance with Rule 62-701.510(3)(d)(1), F.A.C., showing the location of all monitor wells and piezometers (active, inactive and abandoned), horizontally located in degrees, minutes and seconds of latitude and longitude, and the elevation of the top of the well casing and ground surface by the well casing to the nearest 0.01 foot, using a consistent, nationally recognized datum. The surveyed drawing shall include the monitor well and piezometer identification numbers, locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Licensed Professional Surveyor and Mapper..

6. Well Abandonment. All active and inactive monitor wells, and piezometers not listed in Specific Condition #E.3., and not a part of the approved Water Quality Monitoring Plan shall be plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C., and the rules of the Southwest Florida Water Management District (SWFWMD). Documentation of abandonment shall include a map showing well/piezometer locations and SWFWMD abandonment records. The permittee shall submit a written report to the Department providing verification of the well/piezometer abandonment **within 30 days of abandonment**. A written request for exemption to the abandonment of a well must be submitted to the Department's Solid Waste Section for approval.

Amended 12/21/2010.

7. Verification/Evaluation Monitoring. If at any time monitoring parameters are detected at concentrations significantly above background water quality, or exceed the Department's ground water quality standards or minimum criteria in any detection well, the Permittee has 30 days from receipt of the sampling results to resample the monitor well(s) to verify the original analysis. Should the Permittee choose not to resample, the Department will consider the water quality analysis to be 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. Upon notification by the Department, the Permittee shall initiate evaluation monitoring as described in Rules 62-701.510(7)(a) and 62-701.510(7)(b), F.A.C. If monitoring parameters are detected at concentrations significantly above background water quality, and exceed the Department's ground water quality standards or minimum criteria in any compliance well, the Permittee shall submit a preventive measures plan and initiate corrective action as described in Rule 62-701.510(7)(c), F.A.C.

Amended 12/21/2010.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

8. **Surface Water Sampling.** All surface water bodies that may be affected by a contaminant release at the facility shall be monitored, except bodies of water contained completely within the property boundaries of the site which do not discharge from the site to surface waters (Rule 62-701.510(4), F.A.C.). The locations, parameters, and frequencies specified herein represent the minimum requirements for surface water monitoring. Additional samples, sampling locations, and parameters may be required based upon subsequent analysis. Method Detection Limits must be reported at or below the criteria established for the individual parameters to demonstrate compliance with Class III (predominantly fresh water) surface water criteria presented in Chapter 62-302, F.A.C. Compliance with surface water criteria will be based on analysis of unfiltered samples.

a. Surface water sample collection points shall be located as shown on Figure M.1, entitled "Location of Monitoring Wells, Piezometers and Surface Water Sampling Points," prepared by JEA, received August 8, 2008 (**attached**), as follow:

<u>Surface Water #</u>	<u>WACS Testsite #</u>	<u>Location</u>
1-A *	831	Northern portion of Smith Lake (staff gauge)
1-D	834	Western portion of Smith Lake
3A	836	Drainage ditch to Long Flat Creek at SW boundary
3B2B	837	Drainage ditch to Long Flat Creek, WNW of TH-30
3C2	838	Drainage ditch to Long Flat Creek at NW boundary

* = water elevation measurement only at Station #1-A

In accordance with Rule 62-701.510(4)(c), F.A.C., the monitoring stations shall be marked and their positions shall be determined by a Florida Licensed Professional Surveyor and Mapper in degrees, minutes and seconds of latitude and longitude.

b. Surface water sampling shall be conducted **semi-annually** in accordance with the Department's SOPs to comply with the requirements of Rule 62-701.510(6)(e), F.A.C., for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Specific conductivity	Unionized ammonia	Total organic carbon (TOC)
pH	Total hardness	Fecal coliform
Dissolved oxygen	(as mg/L CaCO ₃)	Total phosphorus
Turbidity	Biochemical oxygen	(as mg/L P)
Temperature	demand (BOD ₅)	Chlorophyll A
Colors and sheens	Copper	Total nitrogen
(by observation)	Iron	Chemical oxygen demand
	Mercury	(COD)
	Nitrate	Total suspended solids
	Zinc	(TSS)
	Total dissolved	Those parameters listed in
	solids (TDS)	<u>40 CFR Part 258, Appendix I</u>

Amended 12/21/2010.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

9. **Leachate Sampling.** The locations, parameters, and frequencies specified herein represent the minimum requirements for leachate influent, leachate treatment plant effluent, and leachate treatment plant sludge monitoring. Additional samples and parameters may be required based on subsequent analysis.

a. **Leachate Influent Sampling.** Representative samples of leachate influent (unfiltered) shall be collected from each of the leachate sampling locations described in Specific Condition #E.9.a.(1) to comply with the Department's SOPs and the requirements of Rules 62-701.510(5) and 62-701.510(6)(c), F.A.C., for the sampling events described in Specific Conditions #E.9.a.(2) and #E.9.a.(3). Grab samples of leachate influent shall be collected from #001 by manually lowering and retrieving leachate using a decontaminated stainless steel bailer. Grab samples of leachate influent shall be collected from #007 and #009 through sampling ports that have the capability of reducing the flow to less than 500 milliliters per minute to minimize aeration of the samples.

1) Leachate samples shall be collected at the locations shown on Figure M.1, entitled "Location of Monitoring Wells, Piezometers and Surface Water Sampling Points," prepared by JEA, received August 8, 2008 (**attached**), as follow:

<u>Leachate Sampling #</u>	<u>WACS Testsite #</u>	<u>Location</u>
001 (at PPS-A for Phases I-VI)	919	See Figure M.1
007 (Sections 7 and 8)	20495	↓
009 (Section 9)	22599	↓

2) **Annual** leachate influent sampling shall be conducted for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>
Specific conductivity	Total ammonia - N
pH	Total alkalinity (as mg/L CaCO ₃)
Dissolved oxygen	Chlorides
Colors & sheens (by obs.)	Nitrate
(by observation)	Total dissolved solids (TDS)
	Biochemical oxygen demand (BOD ₅)
	Chemical oxygen demand (COD)
	Those parameters listed in
	<u>40 CFR Part 258, Appendix II</u>

Amended 12/21/2010.

3) If the annual leachate influent analyses indicate that a contaminant included in 40 CFR Part 261.24 exceeds the regulatory level listed therein, the permittee shall provide notification to the Department in accordance with Specific Condition #C.6.b. In addition, the permittee shall initiate **monthly** leachate influent sampling at each of the locations listed in Specific Condition #E.9.a.(1), for analysis of the parameters listed in Specific Condition #E.9.a.(2). If in any three consecutive months no listed contaminant is found to exceed the regulatory level, the permittee may discontinue the monthly leachate influent sampling and analysis and return to a routine sampling schedule.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.9., continued)

b. **Leachate Treatment Plant Effluent Sampling.** To provide reasonable assurance of adequate leachate treatment, the permittee shall collect representative samples (unfiltered) of treated leachate effluent (WACS test site #19864), and shall submit the results of analyses, as follow:

1) Treated leachate effluent shall be sampled and analyzed for the primary and secondary drinking water standards (Rules 62-550.310 and 62-550.320, F.A.C.) and the priority pollutants (U.S. Environmental Protection Agency, 40 CFR Part 423, Appendix A) **within 30 days** after extended (greater than 3 weeks) downtime maintenance or repairs, and **semi-annually** thereafter.

2) Treated leachate effluent shall be sampled at the frequency listed below, and the analytical results shall be submitted quarterly, as follows: Quarter 1 results shall be submitted by **April 15th**; Quarter 2 by **July 15th**; Quarter 3 by **October 15th**; and, Quarter 4 by **January 15th**, for the following parameters:

<u>Parameter</u>	<u>Unit</u>	<u>Frequency</u>
pH	STD UNITS	Weekly
BOD ₅	mg/L	Monthly
COD	mg/l	Monthly
TSS	mg/l	Monthly
Nitrate-N	mg/l	Monthly
TDS	mg/l	Monthly

c. **Leachate Treatment Plant Sludge Sampling.** Waste sludge from the leachate treatment plant shall be sampled and analyzed **annually** using Department SOPs for the following parameters:

Toxicity Characteristic Leaching Potential Test (TCLP) for the organics, metals and pesticides listed in 40 CFR Part 261.24, Table 1

Total nitrogen (percent dry weight)	
Total phosphorous (percent dry weight)	
Total potassium (percent dry weight)	Arsenic (mg/kg dry weight)
Cadmium (mg/kg dry weight)	Copper (mg/kg dry weight)
Lead (mg/kg dry weight)	Mercury (mg/kg dry weight)
Molybdenum (mg/kg dry weight)	Nickel (mg/kg dry weight)
Selenium (mg/kg dry weight)	Zinc (mg/kg dry weight)
pH (standard units)	Solids (percent)

Waste sludge that is not classified as hazardous waste (Chapter 62-730.030, F.A.C.) and that passes the paint filter test may be disposed in the Class I landfill. Based upon the results of the analyses, the Department may require further testing and alternative disposal to assure compliance with all Department rules and regulations. The Department shall be notified within thirty (30) days of alternative sludge disposal.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

10. Water Quality and Leachate Reporting Requirements. The results of each ground water, surface water, leachate influent, leachate treatment plant effluent, and leachate treatment plant sludge sampling event conducted at the Southeast County Landfill to comply with the Specific Conditions of this permit shall be included in Electronic Data Deliverable (EDD) reports that provide:

a. Required water quality and leachate (influent, effluent, and sludge) monitoring reports and all analytical results shall be submitted electronically. Water quality and leachate monitoring reports shall be submitted in Adobe pdf file format. The water quality and leachate monitoring EDD reports shall be provided to the Department in an electronic format consistent with requirements for importing the data into the Department's databases as summarized on the Department's web site at: <http://www.dep.state.fl.us/waste/categories/shw/pages/ADaPT.htm>.

Water quality and leachate monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall provide the information required by Rules 62-701.510(9)(a)1 through 62-701.510(9)(a)10, F.A.C., including:

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 Department Form #62-701.900(31);
7. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01); and,
8. Laboratory and Field data and error logs, as applicable. [In addition to the Adobe pdf file format, this data and associated error logs shall be submitted in an ADaPT-compatible, comma separated text file format.]

The report of results shall be submitted to:

- Department of Environmental Protection, Southwest District Office, Solid Waste Section, 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926; and,
- Department of Environmental Protection, Solid Waste Section 2600 Blair Stone Road, MS 4565, Tallahassee, FL 32399-2400.

b. The permittee shall submit to the Department results of analyses conducted for each sampling event conducted at the facility by the following due dates:

1. Specific Condition #E.4.b. - results of ground water "initial sampling events" shall be submitted **within 60 days from completion of laboratory analyses;**
2. Specific Condition #E.4.c. - results of ground water quarterly sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15th, April 15th, July 15th and October 15th of each year** for the periods Oct. 1-Dec. 31, Jan. 1-Mar. 31, Apr. 1-June 30, and July 1-Sep. 30, respectively;
3. Specific Condition #E.7. - results of ground water verification events shall be submitted **within 60 days from completion of laboratory analyses;**

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.10.b., continued)

4. Specific Condition #E.8.b. - results of surface water semi-annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15th and July 15th of each year** for the periods July 1-Dec. 31, and Jan. 1-June 30, respectively;

5. Specific Condition #E.9.a.(2) - results of leachate influent annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15th of each year** for the period Jan. 1-Dec. 31;

6. Specific Condition #E.9.a.(3) - results of leachate influent monthly sampling events shall be submitted **within 60 days from completion of laboratory analyses;**

7. Specific Condition #E.9.b.(1) - results of treated leachate effluent semi-annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15th and July 15th of each year** for the periods July 1-Dec. 31, and Jan. 1-June 30, respectively;

8. Specific Condition #E.9.b.(2) - results of treated leachate effluent weekly and monthly sampling events shall be submitted **no later than January 15th, April 15th, July 15th and October 15th of each year** for the periods Oct. 1-Dec. 31, Jan. 1-Mar. 31, Apr. 1-June 30, and July 1-Sep. 30, respectively; and,

9. Specific Condition #E.9.c. - results of leachate treatment plant sludge annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15th of each year** for the period Jan. 1-Dec. 31.

Amended 12/21/2010.

11. **Monitoring Plan Evaluation.** By December 15, 2010 and June 15, 2013, the permittee shall submit an evaluation of the water quality and leachate monitoring data. The periods of time to be covered by the evaluations are summarized below:

<u>Water Quality Monitoring</u> <u>Data Evaluation Due Date</u>	<u>Starting</u> <u>Sampling Event</u>	<u>Ending</u> <u>Sampling Event</u>
December 15, 2010	First half 2007	First half 2010
June 15, 2013	Second half 2010	Second half 2012

The evaluations shall include the applicable information as listed in Rule 62-701.510(9)(b), F.A.C., and shall include assessment of the effectiveness of the existing facility design and operation as related to the prevention of ground water and surface water contamination. Any contamination that may exist shall be addressed as part of evaluation monitoring conducted at the facility in accordance with Rule 62-701.510(7), F.A.C. The evaluations shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926.

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

1. Landfill Gas - NSPS and Title V Air Requirements.

a. This solid waste permit will meet the statutory requirement to obtain an air construction permit before modifying or constructing a source of air pollution, except for those landfills that are subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C. Facilities that are subject to the PSD requirements shall obtain an air construction permit from the Bureau of Air Regulation prior to beginning construction or modification pursuant to Rule 62-210.400, F.A.C.

b. The permittee shall comply with any applicable Title V air operation permit application requirements of Chapter 62-213, F.A.C., and 40 CFR 60, Subparts WWW and CC, as adopted by reference at Rule 62-204.800, F.A.C. Title V Permit applications shall be submitted to the District Air Program Administrator or County Air Program Administrator with air permitting authority for the landfill.

c. The permittee shall submit to the Division of Air Resources Management, Department of Environmental Protection, Mail Station 5500, 3900 Commonwealth Blvd., Tallahassee, FL 32399-3000, 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).

2. Gas Monitoring and Control.

a. Landfills that receive degradable wastes shall have a gas management and control system designed to prevent explosions and fires, and to minimize off-site odors, lateral migration of gases and damage to vegetation. Landfill gas shall be monitored and controlled as required by Rules 62-701.500(9) and 62-701.530, F.A.C.

b. Landfill gas shall be monitored to demonstrate compliance with the criteria established in Rule 62-701.530(1)(a), F.A.C., (less than 25% of the lower explosive limit (LEL) for combustible gases in structures and less than 100% of the LEL for combustible gases at or beyond the property boundary).

c. The results of quarterly monitoring required by Rule 62-701.530(2)(c), F.A.C., conducted at the locations listed in Specific Condition #F.3., shall be submitted to the Department by the following dates:

Measured During

Quarter 1 (Jan. 1- Mar. 31)
Quarter 2 (Apr. 1-June 30)
Quarter 3 (July 1-Sep. 30)
Quarter 4 (Oct. 1-Dec. 31)

Report Submitted By

April 15th of each year
July 15th of each year
October 15th of each year
January 15th of each year

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

3. **Gas Monitoring Locations.** Landfill gas shall be monitored at the perimeter gas probes and ambient locations at the facility described in Section L.9 as depicted on the figures presented in Appendix H of the Operations Plan. All perimeter gas probes shown on Figure H-1 [received May 16, 2007], and ambient locations within the enclosed structures shown on Figure H-2 [received December 29, 2008], Figure H-3 [received January 17, 2007], and Figure H-4 [received December 29, 2008] prepared by JEA (**attached**), shall be sampled at least **quarterly** for concentrations of combustible gases determined as a percent of the LEL calibrated to methane, as described in Rule 62-701.530(2), F.A.C., as follow:

<u>Monitoring Probe #</u>	<u>Location</u>	<u>Location Description</u>
LFG-1	Figure H-1	South property boundary
LFG-2	↓	Southwest property boundary
LFG-3	↓	Northwest property boundary
LFG-4	↓	North property boundary
Ambient Monitoring		
<u>Location #</u>	<u>Location</u>	<u>Location Description</u>
SP-1	Figure H-2	Scale house/Admin. Bldg.
SP-2	↓	↓
SP-3	↓	↓
SP-4	↓	↓
SP-5	↓	↓
SP-6	↓	↓
SP-7	↓	↓
SP-8	↓	Removed from routine gas monitoring
SP-9	↓	Scale house/Admin. Bldg.
SP-10	Figure H-3	Maintenance Building
SP-11	↓	↓
SP-12	↓	↓
SP-13	↓	↓
SP-14	Figure H-4	Leachate Treatment Facility Office
SP-15	↓	↓
SP-16	↓	↓

Gas monitoring probes LFG-1 through LFG-4 are to be clearly labeled and easily visible at all times.

4. **Gas Remediation.** If the results of gas monitoring show that combustible gas concentrations exceed 25% of the LEL calibrated to methane in structures or 100% of the LEL calibrated to methane at the property boundary, the permittee shall immediately take all necessary steps to ensure protection of human health and notify the Department. **Within 7 days** of detection, a gas remediation plan detailing the nature and extent of the problem and the proposed remedy shall be submitted to the Department for approval. The remedy shall be completed **within 60 days** of detection unless otherwise approved by the Department.

5. **Gas Collection and Control System.**

a. The permittee shall operate, monitor, and maintain the landfill gas collection and control system in accordance with the procedures provided in the Operations Plan [ref. Op. Plan, Secs. L.9.b. through L.9.j.; Appendices H & I] and any other applicable requirements.


New 12/21/2010.

SPECIFIC CONDITIONS: PART G - Closure and Long-Term Care Requirements

1. **Closure Permit Requirements.** The landfill owner or operator shall submit a closure permit application to the Department, on DEP Form 62-701.900(1), for those portions of the landfill, which have reached design dimensions and grades. The permit application shall be submitted **at least 90 days prior** to the date when wastes will no longer be accepted for active portions of the landfill, as required by Rule 62-701.600(3), F.A.C., or in accordance with the conditions of an existing Department closure permit, whichever is sooner.
2. **Final Cover.** Portions of the landfill which have been filled with waste to the extent of designed dimensions shall be closed (shall receive final cover) within 180 days after reaching design dimensions, in accordance with Rule 62-701.500(7)(g), F.A.C. and all applicable requirements of Department rules.
3. **Long-Term Care Requirements.**
 - a. The owner or operator shall perform long-term care for the closed portions of the site in accordance with Rule 62-701.620, F.A.C., and the information submitted in the Section R of the Engineering Report.
 - b. Long-term care includes, but is not limited to, water quality, leachate and gas monitoring, maintenance of the final cover system, maintenance of the leachate collection and removal system, operation and maintenance of the landfill gas collection and control system, erosion control, and the prevention of ponding within disposal areas.
Amended 12/21/2010.
 - c. Prior to implementation, the owner or operator shall submit a plan for any proposed uses of the closed portions of the landfill to the Department for approval. This plan shall include a description of the proposed use, and evaluation of the impact on the existing landfill systems (e.g. final cover, leachate collection, bottom liner), engineering designs, calculations and plans as appropriate, etc. The proposed activity shall not be initiated without prior Department approval.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Pamala Vazquez
Program Administrator
Southwest District

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
A.4.	No later than June 15, 2013	Submit permit renewal application
A.9.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of sinkholes or subsurface instability Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
C.5.b.	Within 60 days of initial detection	Submit odor abatement plan
C.6.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of: hazardous waste receipt, failure of landfill systems or equipment, damage to leachate impoundments Written notification & corrective action plan
C.6.c.	Within 60 days of written notification	Complete corrective actions for gradient or groundwater monitoring system
C.6.d.	Within 30 days of written notification	Implement corrective actions for leachate or stormwater management system
C.6.f.	Within 30 days of written notification from the Department	Submit corrective action plan for chronic erosion of intermediate cover.
C.8.e.(1)	No later than 30 days prior to expiration of leachate disposal agreements/contracts	Submit copies of contract/agreement renewal or new contracts/agreements
C.8.e.(2)	Within 3 days of cessation of leachate acceptance by POTW or LTRF	Notification of contingency measures to be implemented
C.8.f.(4)	Quarterly, by January 15 th , April 15 th , July 15 th and October 15 th each year	Submit leachate generation reports
D.3.a.		Submit waste records to Tallahassee
C.8.g.(2)	Within 48 hours of discovery Within 7 days of verbal notification	Notification of exceedance of leakage action rate Written notification & corrective action plan

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
C.8.h.(1)	No later than March 15, 2011 & June 15, 2013	Submit report of jet cleaning and video inspection of LCS piping in Phases I-VI
C.8.h.(2)	No later than June 15, 2013	Submit report of jet cleaning or video inspection of LCS & LDS piping in Sections 7-9
C.8.k.(3)	No later than 6 months prior to commencement of filling in each lift	Submit clay strength and stability evaluation results
C.13.c.	Annually, by September 1 st each year	Submit Topographic survey & remaining capacity calculations
D.4.a.	Annually, by September 1 st each year	Submit revised cost estimates
D.4.b.	Annually	Submit proof of funding
E.4.b.	Within 7 days of new well installation and development	Conduct initial sampling event
E.4.c.	Quarterly	Sample background and detection wells
E.5.a.	Prior to installation of new wells	Request and received permit modification
E.5.b.	Within 90 days of installation of new wells	Provide construction details for wells
E.5.c.	Within 1 week of well development	Conduct initial sampling
E.5.d.	Within 90 days of installation of new wells	Provide survey drawing
E.6.	Within 30 days of well abandonment	Submit documentation of abandonment
E.7	Within 14 days of discovery	Notification of: monitoring parameters significantly above background water quality or exceeding ground water standards or minimum criteria, if Permittee chooses not to conduct a resampling event
E.7	Within 30 days of receiving sampling results	Conduct a resampling event if monitoring parameters are detected significantly above background water quality or exceeding ground water standards or minimum criteria
E.8.b.	Semi-annually	Sample surface water locations
E.9.a.(2)	Annually	Conduct leachate influent sampling

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
E.9.b.(1)	Semi-annually	Conduct leachate effluent sampling
E.9.c.	Annually	Conduct leachate treatment plant sludge sampling
E.10.b.	<p>Semi-annually, by January 15th and July 15th of each year</p> <p>Annually, by January 15th of each year</p> <p>Within 60 days of completion of laboratory analyses</p> <p>Quarterly by January 15th, April 15th, July 15th and October 15th of each year</p>	<p>Submit surface water quality monitoring analyses (SC#E.8.b.) and leachate effluent analyses (SC#E.9.b.(1))</p> <p>Submit leachate influent quality monitoring analyses (SC#E.9.a.(2)) and leachate treatment plant sludge analyses (SC#E.9.c.)</p> <p>Submit initial ground water sampling results (SC#E.4.b.), ground water verification sampling results (SC#E.7.), and monthly leachate influent sampling events (SC#E.9.a.(3))</p> <p>Submit routine ground water sampling results (SC#E.4.c.) and results of weekly/monthly leachate treatment plant effluent results (SC#E.9.b.(2))</p>
E.11.	December 15, 2010 and June 15, 2013	Submit monitoring plan evaluation reports
F.2.c.	Quarterly, by January 15 th , April 15 th , July 15 th , and October 15 th of each year	Submit results of routine landfill gas monitoring events
G.1.	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application

FIGURE M. 1.
LOCATION OF MONITORING WELLS, PIEZOMETERS AND SURFACE WATER SAMPLING POINTS
HILLSBOROUGH COUNTY, FLORIDA



Department of Environmental Protection

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

DEP Form # 62-701.900(30)
Form Title: Monitoring Well Completion Report
Effective Date: January 6, 2010
Incorporated in Rule 62-701.510(3)

MONITORING WELL COMPLETION REPORT

DATE: _____

FACILITY NAME: _____

DEP PERMIT NO.: _____ WACS_FACILITY: _____

WACS MONITORING SITE_NUM.: _____ WACS_WELL: _____

WELL_TYPE: BACKGROUND _____ DETECTION _____ COMPLIANCE _____

LATITUDE AND LONGITUDE (see back for requirements): _____

Coordinate Accuracy _____ Datum _____ Elevation Datum _____

Collection Method _____ Collection Date _____

Collector Name _____ Collector Affiliation _____

AQUIFER MONITORED: _____

DRILLING METHOD: _____ DATE INSTALLED: _____

INSTALLED BY: _____

BORE HOLE DIAMETER: _____ TOTAL DEPTH: _____ (BLS)

CASING TYPE: _____ CASING DIAMETER: _____ CASING LENGTH: _____

SCREEN TYPE: _____ SCREEN SLOT SIZE: _____ SCREEN LENGTH: _____

SCREEN DIAMETER: _____ SCREEN INTERVAL: _____ TO _____
(BLS)

FILTER PACK TYPE: _____ FILTER PACK GRAIN SIZE: _____

INTERVAL COVERED: _____ TO _____ (BLS)

SEALANT TYPE: _____ SEALANT INTERVAL: _____ TO _____ (BLS)

GROUT TYPE: _____ GROUT INTERVAL: _____ TO _____ (BLS)

TOP OF CASING ELEVATION (NGVD): _____ GROUND SURFACE ELEVATION (NGVD): _____

DESCRIBE WELL DEVELOPMENT: _____

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): _____

DATE AND TIME MEASURED: _____

REMARKS: _____

NAME OF PERSON PREPARING REPORT: _____

(Name, Organization, Phone No., E-mail)

NOTE: ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.(NGVD) NATIONAL GEODETIC
VERTICAL DATUM OF 1988 (BLS) = BELOW LAND SURFACE

Latitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Longitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Eastings and northings (State Plane Coordinates) **must** be converted to latitude and longitude.

Coordinate Accuracy: the measured, estimated degree of correctness of the measurement. An accuracy of 15 feet or 5 meters is preferred.

Datum: the horizontal reference for measuring locations on the Earth's surface. NAD83-North American Datum of 1983 is preferred.

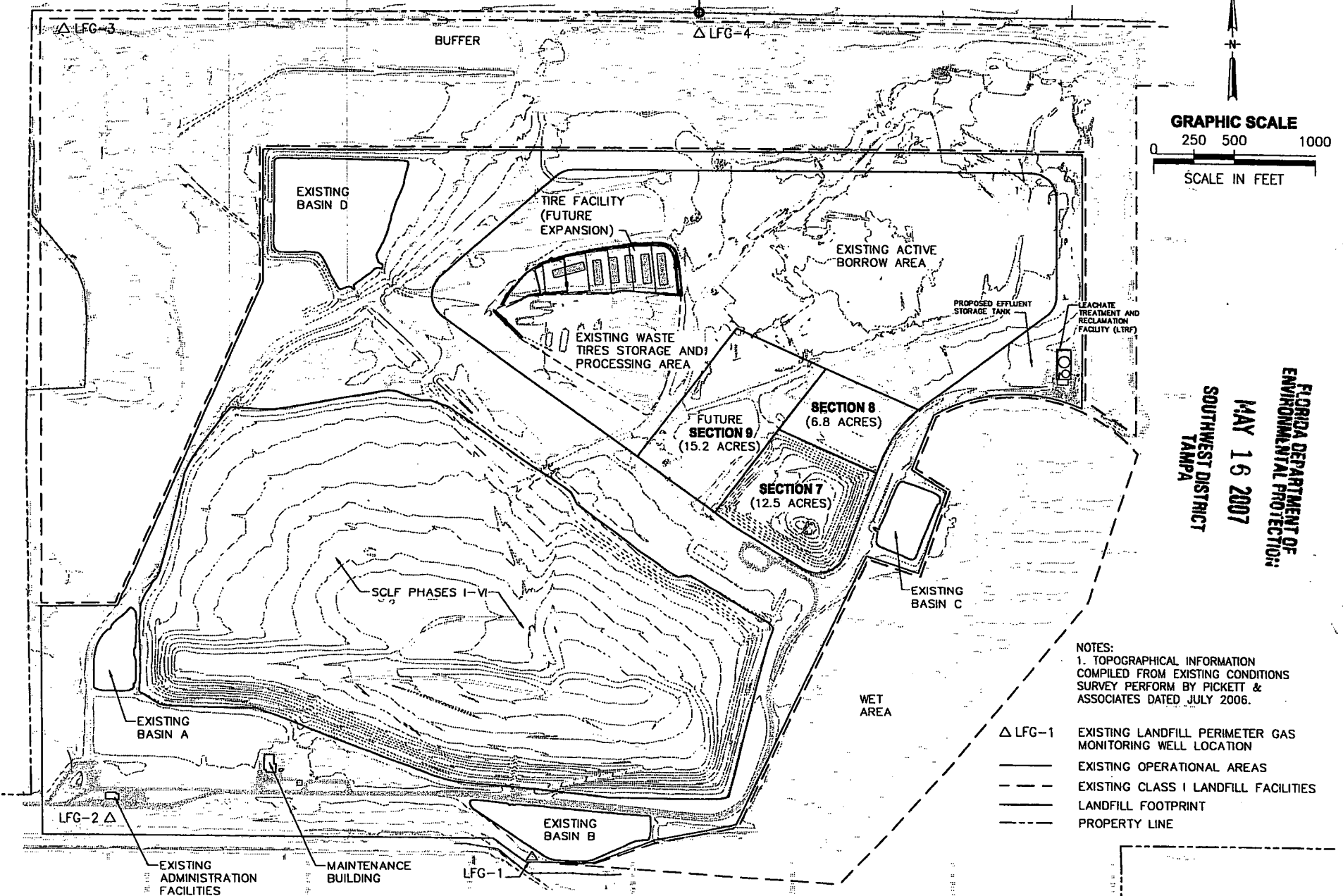
Elevation Datum: the reference datum from which elevation measurements are made. NGVD88 (National Geodetic Vertical Datum of 1988) is preferred.

Collection Method: the method or mechanism used to derive the measurements, e.g. GPS, map, aerial photo, etc.

Collection Date: the date and time on which the measurements were taken.

Collector Name: the name of the person taking the measurement.

Collector Affiliation: the agency or company for whom the collector works.



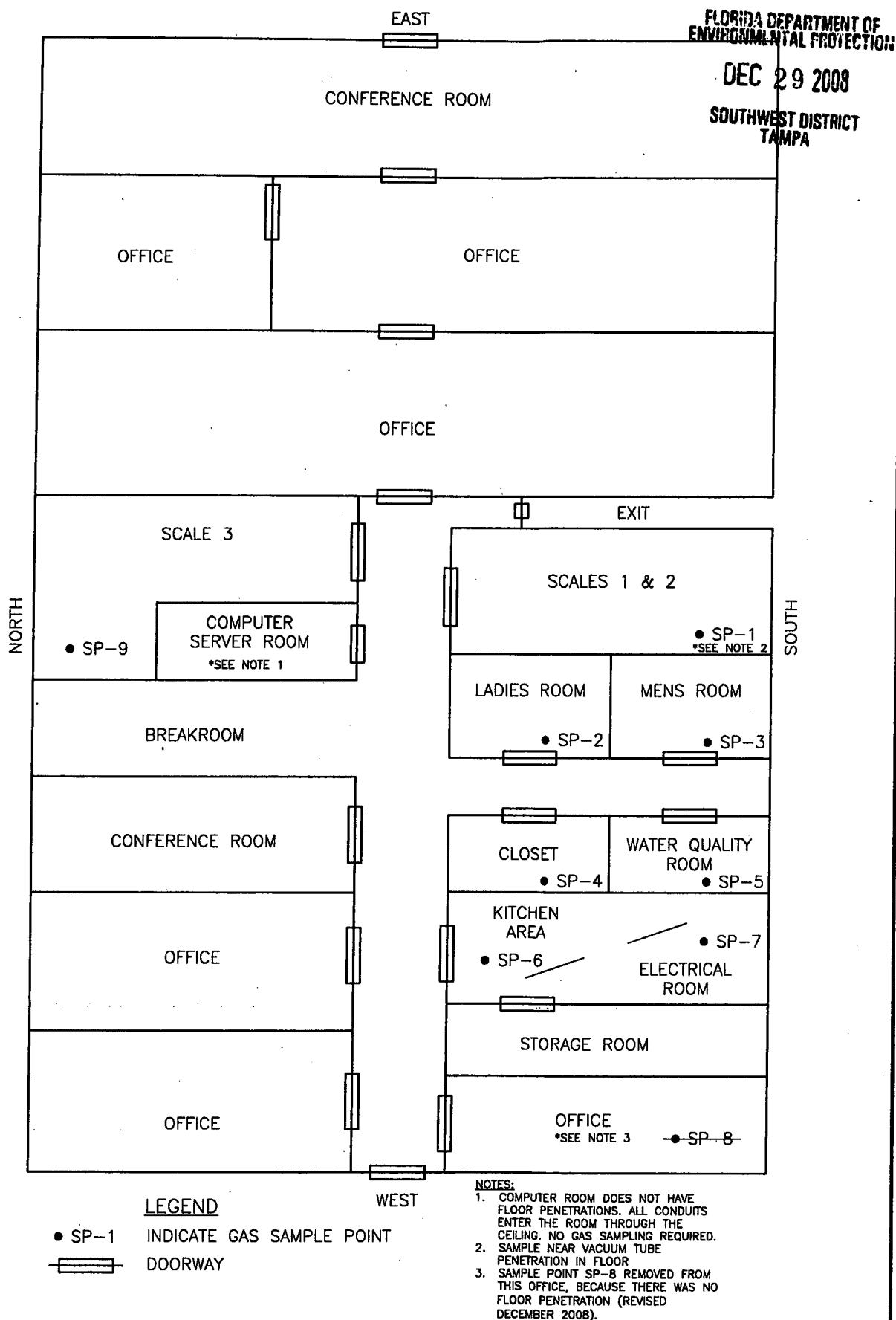
FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAY 16 2007
SOUTHWEST DISTRICT
TAMPA

Revised May 2007

Plotted: 5/09/07 10:43am CRestrepo

Figure H-1. Landfill Gas Perimeter Monitoring Wells

JONES EDMUNDS



Revised December 2008

NOT TO SCALE

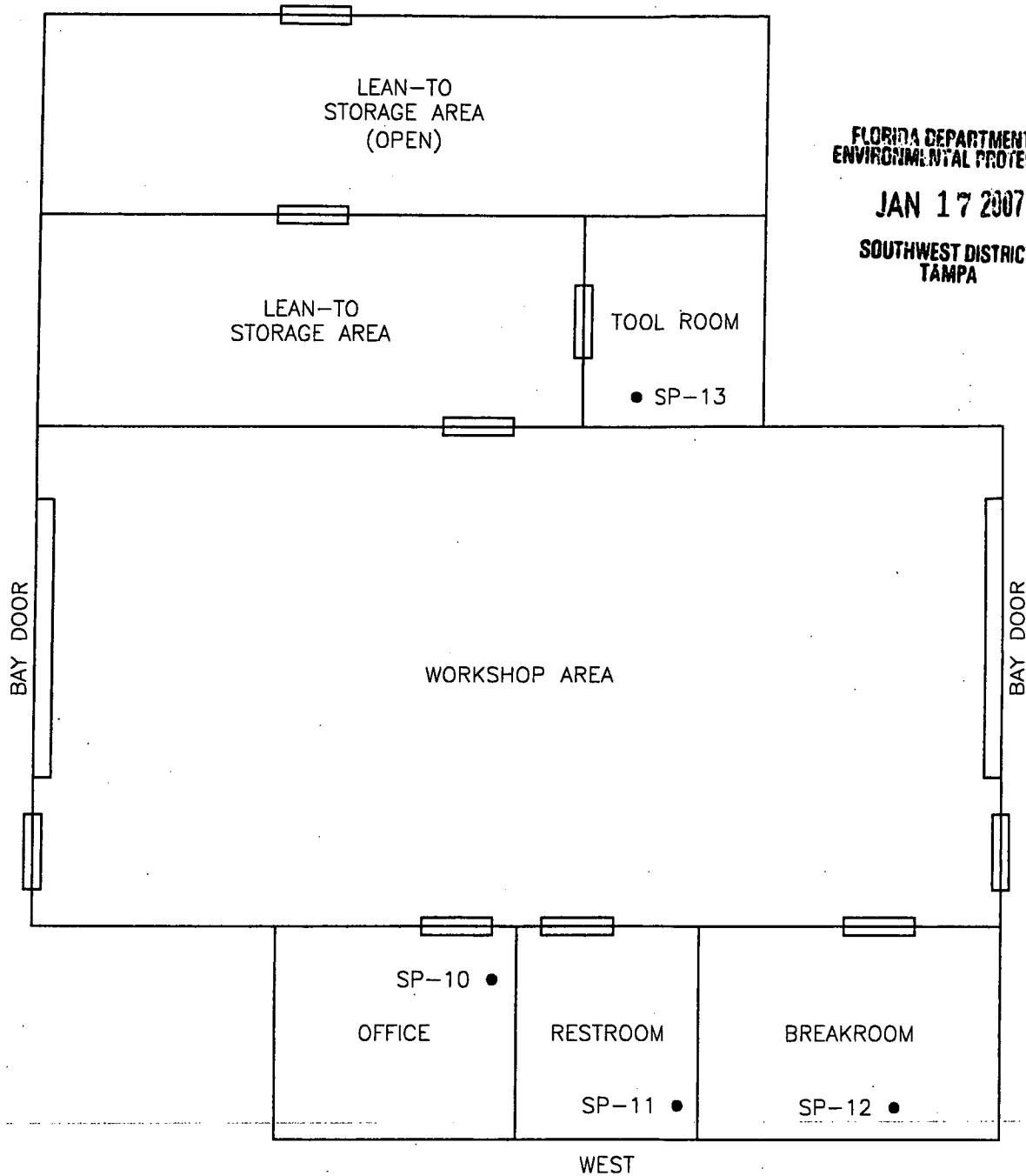
Figure H-2 Scalehouse / Administration Building LFG monitoring Points

JONES
EDMUNDS

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

JAN 17 2007

SOUTHWEST DISTRICT
TAMPA



LEGEND

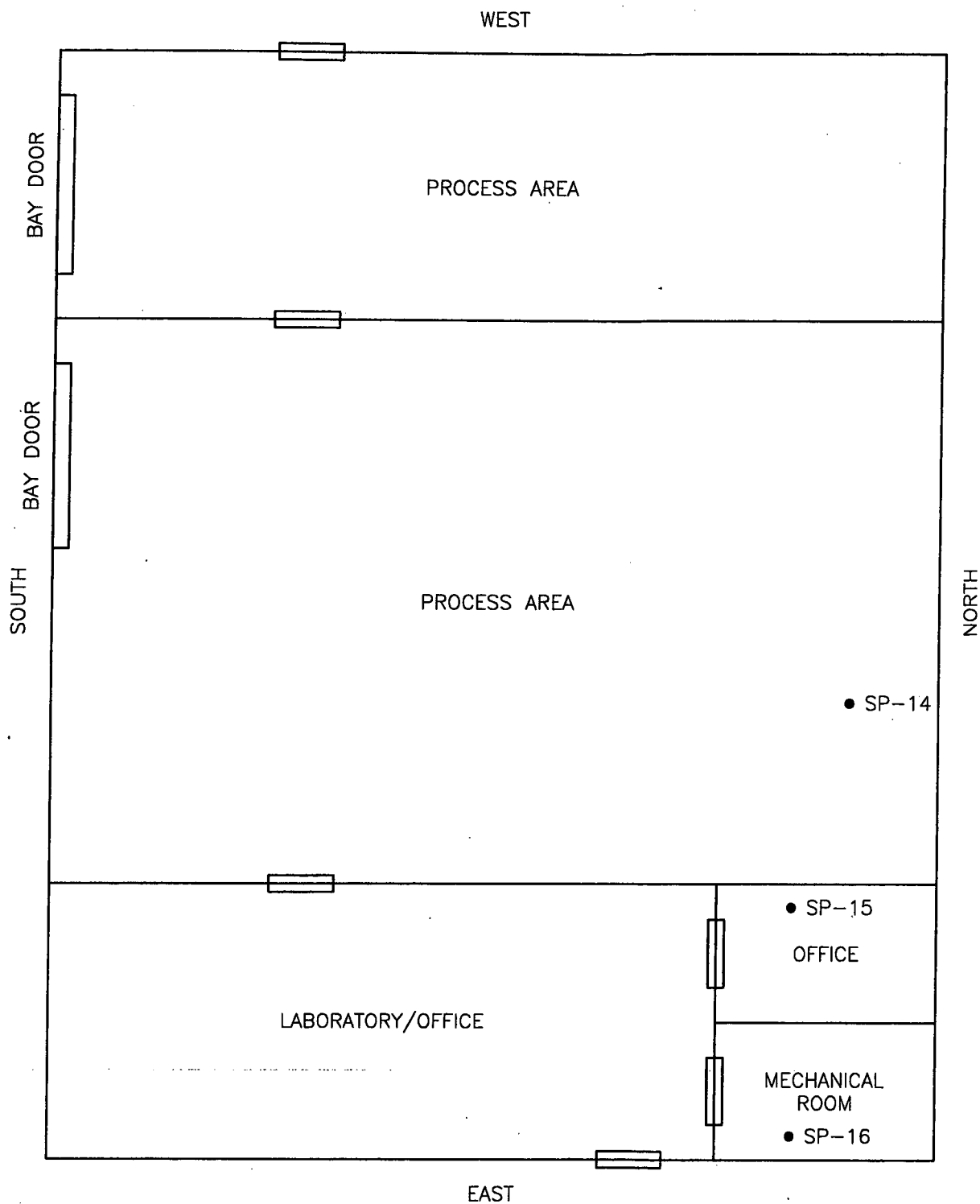
- SP-10 INDICATE GAS SAMPLE POINT
- DOORWAY

Revised January 2007

NOT TO SCALE

JONES
EDMUNDS

Figure H-3 Maintenance Building LFG Monitoring Points



LEGEND

- SP-14 INDICATE GAS SAMPLE POINT
- DOORWAY

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

DEC 29 2008

SOUTHWEST DISTRICT
TAMPA

Revised December 2008

NOT TO SCALE

Figure H-4

LTRF Office LFG Monitoring Points

JONES
EDMUNDS

Madden, Melissa

Rev E to RA1 #2

From: Pelz, Susan
Sent: Wednesday, April 13, 2011 4:35 PM
To: Madden, Melissa
Subject: FW: SCLF - Pending Modification (Pump Station 7 Revision)
Attachments: SCLF Pump Station 7 Rev 4.13.11.pdf

From: Restrepo, Carlos [<mailto:Carlos.Restrepo@hdrinc.com>]
Sent: Wednesday, April 13, 2011 3:10 PM
To: Pelz, Susan
Cc: Miller, Megan; Ruiz, Larry; Siemering, Richard
Subject: SCLF - Pending Modification (Pump Station 7 Revision)

Ms. Pelz,

Per a previous conversation between FDEP and Hillsborough County Public Utility Department (SWMD), please find attached a revised Pump Station 7 schematic at the Southeast County Landfill.
The requested revision is for the pending permit modification.

Please let me know if the submitted information addressed FDEP requirements.
Thank you.

Carlos A. Restrepo, P.E.

HDR | ONE COMPANY | Many Solutions

5426 Bay Center Drive, Suite 400 | Tampa, FL | 33609-3444
Phone: 813-282-2300 | Direct 813-262-2731 | Fax: 813-282-2430 |
carlos.restrepo@hdrinc.com
www.hdrinc.com

OPERATION PROCEDURE FOR SECTION 7 PUMP STATION (PS-7)

Section 7 Pump Station pumps leachate from Sections 7 and 8 to the MLPS.

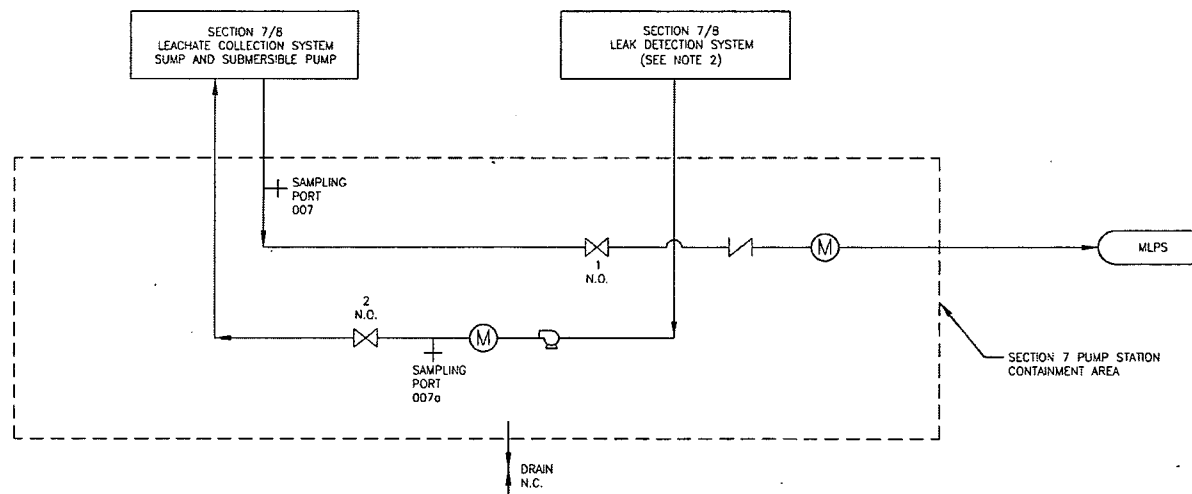
The standard practice valve settings are as follows:

1. Valves 1 and 2 are OPEN.

If Section 7 needs to be isolated from the MLPS, perform the following:

1. CLOSE Valve 1.

Sections 7 and 8 Leak Detection System is currently setup to pump directly into PS-7 Leachate Collection Sump. If the Action Leakage Rate of 1,930 gpd (Section 9.3.3 of the LMP) is exceeded, the Leak Detection System Discharge will be retrofitted to divert the discharge directly into the forcemain heading to the Main Leachate Pump Station.



NOTES:

1. THE SCHEMATIC SHOWN IS NOT TO SCALE AND DEPICTS THE GENERAL CONFIGURATION OF THE PUMP STATION AND DOES NOT REPRESENT THE ACTUAL PIPE SPACING OR LAYOUT.
2. SECTIONS 7 AND 8 LEAK DETECTION SYSTEM IS CURRENTLY SETUP TO PUMP DIRECTLY INTO PS-7 LEACHATE COLLECTION SUMP. IF THE ACTION LEAKAGE RATE OF 1,930 GPD (SECTION 9.3.3 OF LMP) IS EXCEEDED, THE LEAK DETECTION SYSTEM DISCHARGE WILL BE RETROFITTED TO DIVERT THE DISCHARGE DIRECTLY INTO THE FORCEMAIN HEADING TO THE MAIN LEACHATE PUMP STATION.

LEGEND

- ⋈ VALVE
- Ⓜ PUMP
- Ⓜ FLOW METER
- Σ CHECK VALVE
- FLOW ARROW
- PIPING
- - - PUMP STATION BOUNDARY
- N.O. NORMALLY OPEN (WHITE)
- N.C. NORMALLY CLOSED (BLACK)

**SECTION 7 PUMP STATION
SCHEMATIC**

REVISED APRIL 2011

Call

SJP

MM

LR-HCSW

> FREPSW

4/12/2011 Hills SELF

- 35435 - 017 - 80/MM

Re: Sinkhole
(Investigation
definition)

- We didn't see anything unusual

- better - boundary conditions
for leak detection

↳ tiny amount

↓
leakage action
rate

Madden, Melissa

From: Madden, Melissa
Sent: Thursday, June 17, 2010 12:50 PM
To: 'Pelley, Cindy'; 'Ruiz, Larry'; 'PStasis@jonesedmunds.com'; 'dhullings@jonesedmunds.com'
Cc: Pelz, Susan; Watson, Stephanie M.
Subject: June 17, 2010 Hills Co LMP Attendees
Attachments: 2010_06_17_12_46_36.pdf

All,

Please find attached the attendees sheet from today's **Hillsborough County SELF Leachate Management Plan RAI #2** meeting. Please let me know if you have any additional questions or concerns.

Thanks, Melissa

Melissa Madden, Environmental Specialist II, Solid Waste Section

Florida Department of Environmental Protection - Southwest District
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
melissa.madden@dep.state.fl.us
813/632.7600 Ext. 374
813/632.7664 Fax



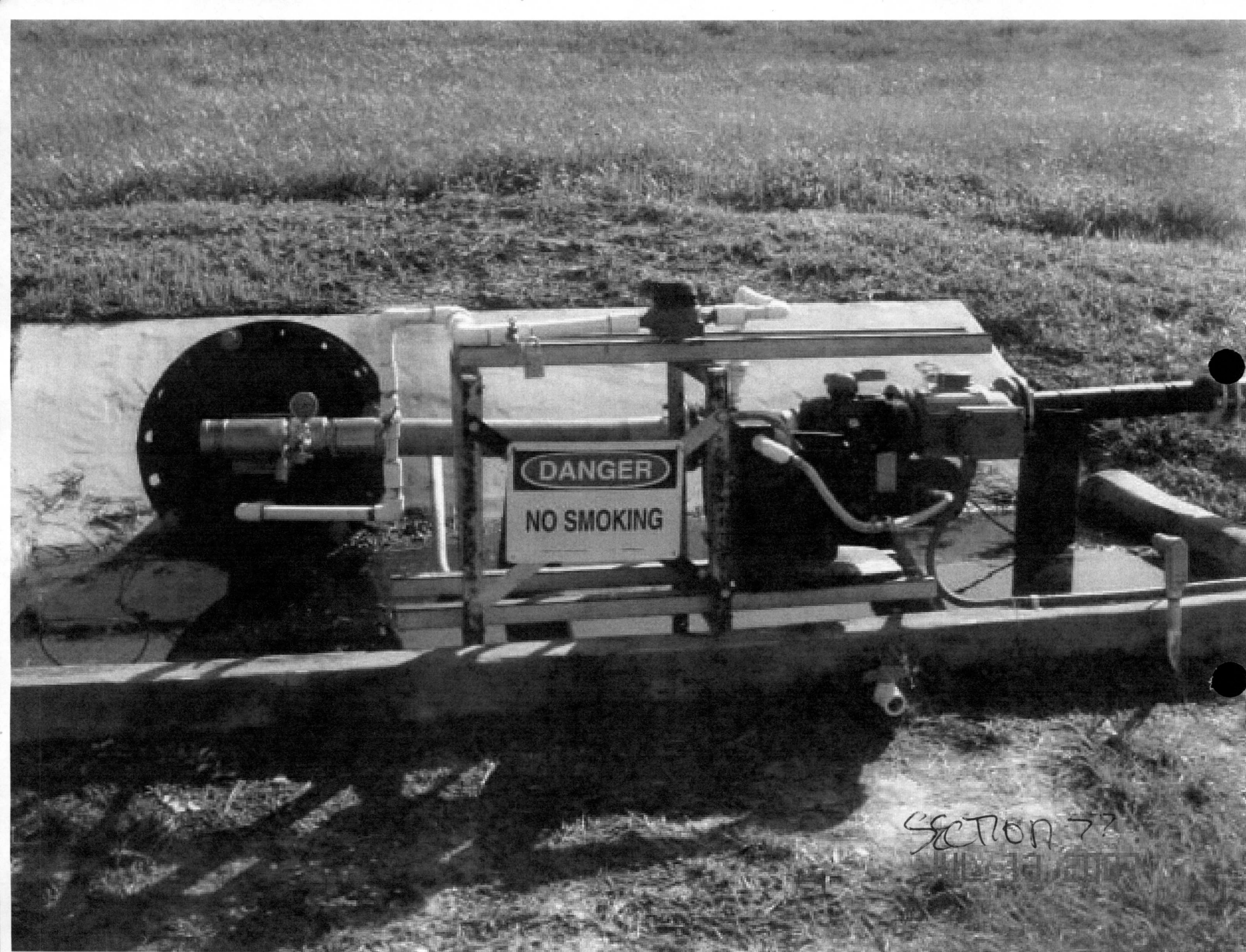
Pump Station #7 Statistics for 2009 (yearly averages)

Leachate pumped = 1,700 GPD

LDS pumped = 28 GPD

Action leakage rate = 1,930





DANGER
NO SMOKING

SECTION 72

COLLECTION
LEAD
LAG

DETECTION

APR 28

SECTION 9

6/17/10 Hills Co LMP RAI #2 meeting

4.2.1. of RAI

PS

proof that Hills Co. had authorization to send Lechete
2000 S.C.S. was engineer Kim Ford commented on Schin 6
~~described~~

SJP

DH

It doesn't say that it was pumped back into detection.

SJP

Discharge hose from riser hose

pump at surface sump in riser pipe.

SJP

Is Pipe

LR

DH

LR

No description about pipe. Doesn't go into detail.

Bob Gardner, Kim Ford - I was at meeting.
Kim Ford requested no drawing, but wanted a
description. There was a picture in certification
showing a surface pump.

Error later - described submersible. It's not
a submersible, it's Schin.

DH

Nothing has changed. Always operated as surface pump.

Is description good? No.

Question today is - what can we get you to that you need.

SJP

PS

constructed in 2004. Certification doesn't show it.

Doesn't clearly show it.

SJP

DH

We don't ~~have~~ have notes from certification inspection.

We had acknowledgement & approval

SJP

I don't know we would agree w/ that.

MM Certification detail doesn't show it.

LMP doesn't reflect it.

LR	IT3 in lecture generation report
----	----------------------------------

~~Specific to~~

MM	Leachate management Plan doesn't accurately describe the operation.	10/10
----	---	-------

SJP The concept that ~~it have a tank~~ ^{teach it from} game pumping leakage detection layer back into collection. How hard would it be to connect pumps to force main.

ditch layer back into collection. Has hard wired it to connect pump to force main.

lik might be pumping at same time. (Smir's Gasin narrative)

STP

DH	<p>taking small amt. of lakehite & putting it into a place where we can collect it</p> <p>28 vs 1700 gallons per acre.</p>
----	--

It's a lot more complicated to do that

DH leak detection \rightarrow force main - DEP tonight

leaf collection \rightarrow free rain - actual salinity

53p you had a leak, why you had

Hopefully, we won't ever have 1900 in our ~~budget~~ ^{back into the ledger.}

SSP You're right. We need to figure out from the technical standpoint, if you had a leak, what would you do.

PS We could pump into truck or into force main.

SEP Info force main, that's what DEP thought you were doing.

P5 we want to agree on a solution

Look at head pressure difference, not flow rates.

LR	Seam 9 has 12 inch riser.
----	---------------------------

Sachn 7/8

DH we dont have access in 7/8 to get a sub possible

SSP trying to think what others have done. 1st time trust anyone.

PS Most have submersibles.

DH If we go back to what were doing, what if we have a trigger.

LR Trigger is alarm rate.

PS like any emergency.

SSP I don't know the answer to that. (looks at rule)

DH Acknowledge that in case of actual leak, it wouldn't be beneficial to pump back into what would make you comfortable - go directly to force main, go to manhole → force main

SSP If that's how you're managing tanks, ^{LR} pumping 10 gallons a day back into tank

SSP SSP What does your plan say.

LR The plan says that leak will be contained.

SSP And it doesn't say what will be done w/ leaked leachate.

LR No

SSP It needs to. We wouldn't have approved pumping leachate back into tank.

Whatever the end of doing with you, we have to do w/ everyone.

DH You're going to talk about "drinking the line" w/ RT & were going to come up w/ design (technical)

SSP Yes. In the meantime, don't pump leaked leachate back into tanks.

DH Timing. We need to respond to questions.

DH We're already off the clock?
 SJP I think we're OK w/ the timing. You all have the ball.
 I'll talk to RT next week.

CP Submit letter asking for time to respond.
 SJP Pick a date, or don't give us an actual date
 pending conversation w/ RT. If you have to redesign,
 it'll take longer.

DH Let's agree to disagree that, but we thought that we were approved
 PS 2 weeks of data was always there. (in good faith)
 SJP end of next week or 1st week of July.

DH Not aware of another LT that operates in this
 fashion?

SJP No. Kind of sensitive to stuff being pumped back in.

DH It was designed that way.

~~SJP~~ SJP If capacities were calculated & showed that ~~it~~ int.
 was pumped back in.

LR I was design engineer. It was not calculated.
 50 gallons a day wasn't included in capacities.

~~SJP~~ SJP If RT says no, we're saying no.
 LCS was not designed to do that.

DH If we had approval, it wouldn't matter if you didn't
 like it?

SJP Yes, but we'd have to look to see if it meets intent of rule

PS If no, you'd expect us to redesign

LR AP Reason I'm asking, it affect another system. Pond B.
 low leakage rate. we should make both same at same time.

SJP Steve has gas mod. good

Hills LMP RA1 #2

- 2000 - hose from deflection
discharge hose

no pump in LDS sump
pipe -

- never been a submersible
pump

- how it has been operating

- we don't have anything

- DEP representative

- we can't agree that

- concept of pumping leakage
into something that is
leaking.

Action
Rate

- what is stopping you from
having a new separate line
they aren't leaking - but what if they were.

something else if they had
a leak

technical - pressure

LDS - 28 GPD

Wastate pumped 1700 GPD

can't overcome the pressure

head pressure differences

We acknowledge ^{riser} ~~line~~ - can't fit the
what's out there pump

(don't necessarily
agree that

we approved if they were leaking - what would
they do.

^{for} pump ^{into} leak detection -

by 1st week July

going to
request
an extension

CONTACT TAUATHASSEE - such a
tiny ant is

put it anywhere else
(man hole)

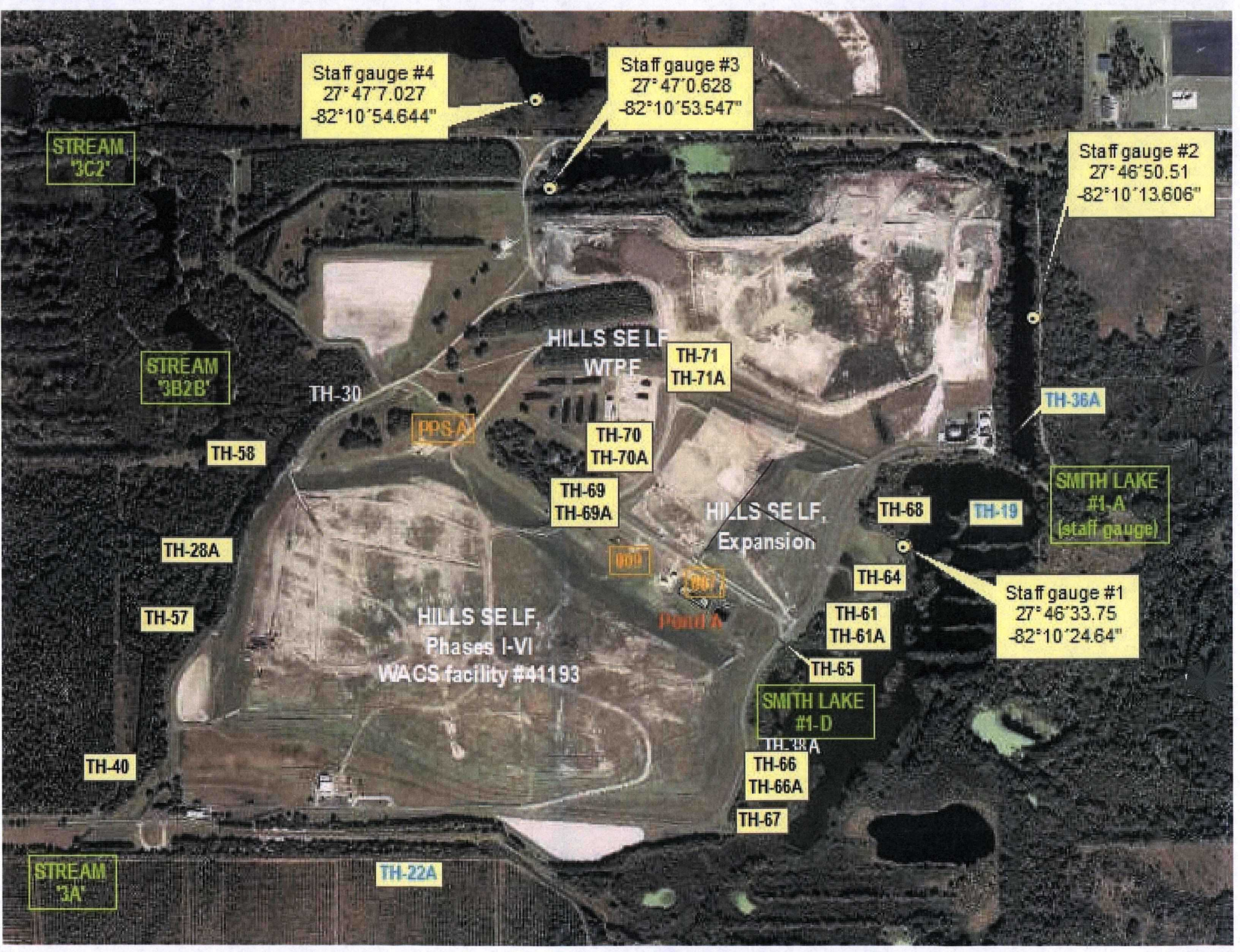
it OK

STP - NO right now

sump
transducer

quantities - where do we draw
the line - (ACR?) - ^{suggested} still may be

alternatively
what they can
do physically



Staff gauge #4
27° 47' 7.027"
-82° 10' 54.644"

Staff gauge #3
27° 47' 0.628"
-82° 10' 53.547"

Staff gauge #2
27° 46' 50.51"
-82° 10' 13.606"

STREAM
"3C2"

STREAM
"3B2B"

HILLS SE LF
WTPF

TH-71
TH-71A

TH-30

PPSA

TH-58

TH-70
TH-70A

TH-69
TH-69A

HILLS SE LF,
Expansion

TH-68

TH-19

SMITH LAKE
#1-A
(staff gauge)

TH-28A

TH-57

HILLS SE LF,
Phases I-VI
WACS facility #44193

Pond A

Staff gauge #1
27° 46' 33.75"
-82° 10' 24.64"

TH-64

TH-61
TH-61A

TH-65

SMITH LAKE
#1-D

TH-38A

TH-66
TH-66A

TH-67

TH-40

TH-22A

STREAM
"3A"

why?

LAR - 100g/day

Madden, Melissa

From: Pete Stasis [PStasis@jonesedmunds.com]
Sent: Wednesday, June 09, 2010 2:27 PM
To: Madden, Melissa
Cc: Pelz, Susan; Watson, Stephanie M.; Pelley, Cindy; Ruiz, Larry; Don Hullings; Berry, Patricia
Subject: RE: Hills Co SELF LMP meeting

Good afternoon Melissa,

The list of attendees will include the following Hillsborough County staff and engineering consultant:

Larry Ruiz (Hillsborough County)
Cindy Pelley (Hillsborough County)
Patricia Berry (Hillsborough County) – TENTATIVE
Don Hullings (Jones Edmunds)
Pete Stasis (Jones Edmunds)

A brief agenda will include the following:

- FDEP letter dated April 29, 2010 (RAI No. 2)
- FDEP concern regarding permitting documentation of leachate removal method and approval by the department
- Background information and discussion
- Recommendation for resolution to complete the application

I will keep in touch this week with questions if the need arises in order to be prepared for the meeting on June 17th.

Have a great day,

Pete Stasis, PE
Vice President
Project Manager

Jones Edmunds & Associates, Inc.
324 South Hyde Park Avenue
Suite 250
Tampa, FL 33606
Cell: (813) 335-0922
Ph: (813) 258-0703, Ext. 1778
Fx: (813) 254-6860
www.jonesedmunds.com
pstasis@jonesedmunds.com

The information contained in this message and any file and/or attachment transmitted herewith are confidential and may be legally privileged. It is meant solely for the private use of the intended addressee and must not be disclosed to or used by anyone other than the intended addressee. If you receive this transmission by error, please immediately notify the sender by reply email and destroy the original transmission and its attachments. E-mail transmission cannot be guaranteed to be secure or error free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete. The sender therefore does not accept liability for any errors or omissions in the content of this message, which arise as a result of e-mail transmission. If verification is required please request a hard-copy version. Although this e-mail is believed to be free of any virus or other defect that might affect any computer system in which it is received, it is the responsibility of the recipient to ensure that it is virus free.

From: Madden, Melissa [mailto:Melissa.Madden@dep.state.fl.us]
Sent: Wednesday, June 09, 2010 12:03 PM
To: Pete Stasis
Cc: Pelz, Susan; Watson, Stephanie M.; 'Pelley, Cindy'
Subject: Hills Co SELF LMP meeting

Pete,

Please provide a list of attendees and brief agenda for the Hillsborough County Southeast Landfill Leachate Management Plan meeting scheduled for **Thursday, June 17, 2010 at 10am**. Please let me know if you have any questions or concerns.

Thank You,

Melissa

Melissa Madden, Environmental Specialist II, Solid Waste Section

Florida Department of Environmental Protection - Southwest District
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
melissa.madden@dep.state.fl.us
813/632.7600 Ext. 374
813/632.7664 Fax

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.



Florida Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-632-7600

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

April 29, 2010

Transmitted electronically to:
BoldissarB@hillsboroughcounty.org

Mr. Barry M. Boldissar, Director
Hillsborough County Solid Waste Management Department
601 E. Kennedy Blvd., 24th Floor
Tampa, Florida 33602

**RE: Hillsborough Southeast County Landfill
Leachate Management Plan, Phases I-VI and Sections 7 & 8
Pending Permit Modification No. 35435-017-SO/MM to
Permit No.: 35435-014-SO/01
Hillsborough County, WACS No. 41193**

Dear Mr. Boldissar:

This is to acknowledge receipt of additional information prepared by Jones Edmunds & Associates, dated and received March 31, 2010, for modification of the Leachate Management Plan for a Class I landfill, referred to as the Hillsborough Southeast County Landfill, located 8.8 miles east of U.S. 301 on C.R. 672, Hillsborough County, Florida.

This letter constitutes notice that a permit will be required for your project pursuant to Chapter(s) 403, Florida Statutes.

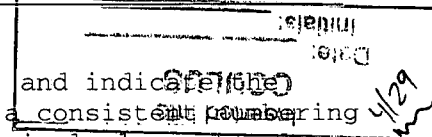
Your application for a permit is incomplete. This is the Department's second request for information. Please provide the information listed below promptly. Evaluation of your proposed project will be delayed until all requested information has been received.

GENERAL:

1. The requested information and comments below do not necessarily repeat the information submitted by the applicant. However, every effort has been made to concisely refer to the section, page, drawing detail number, etc. where the information has been presented in the original submittal.

2. Please submit **4 copies** of all requested information. Please specify if revised information is intended to supplement, or replace, previously submitted information. Please submit all revised plans and reports as a complete package. For revisions to the narrative reports, deletions may be struckthrough (~~struckthrough~~) and additions may be shaded shaded or similar notation method. This format will expedite the review process. Please include revision date on all revised pages.

3. Please provide a summary of all revisions to drawings, and indicate the revision on each of the applicable plan sheets. Please use a consistent numbering system for drawings. If new sheets must be added to the original plan set, please use the same numbering system with a prefix or suffix to indicate the sheet was an addition, e.g. Sheet 1A, 1B, P1-A, etc.



4. Please be advised that although some comments do not explicitly request additional information, the intent of all comments shall be to request revised calculations, narrative, technical specifications, QA documentation, plan sheets, clarification to the item, and/or other information as appropriate. **Please be reminded that all calculations must be signed and sealed by the registered professional engineer (or geologist as appropriate) who prepared them.**

The following information is needed in support of the solid waste application [Chapter 62-701, Florida Administrative Code (F.A.C.)]:

Leachate Management (Rule 62-701.500 (8), F.A.C.)

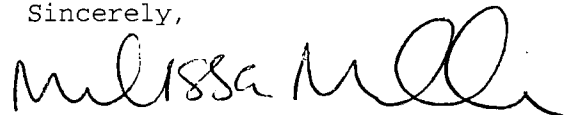
1. **Section 4.2.1, Appendix B, Section 7 Pump Station Schematic.** A review of Department files appears to indicate that the configuration for leachate removal described in this section does not reflect the permitted design in Section 7/8, as shown on the Record Drawings, Sheet 22 of Plan Set *Southeast County Landfill Capacity Expansion*, dated December 11, 2003. As previously requested, please provide the date of Department approval for the method of leachate removal described in this section, including specific references to permitting documentation which identifies that this operation was approved by the Department.

This staff assessment is preliminary and is designed to assist in the review of the application prior to final agency action. The comments provided herein are not the final position of the department and may be subject to revision pursuant to additional information and further review.

Please respond **by May 27, 2010**, addressing all of the information requests and indicating when a response to any unanswered questions will be submitted. If the response will require longer than **the date noted above**, you should develop an alternate specific time table for the submission of the requested information for Department review and consideration. Pursuant to the provisions of Rule 62-4.055(1), F.A.C., if the Department does not receive a timely, complete response to this request for information the Department may issue a final order denying your application. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant may reapply as soon as the requested information is available.

You are requested to submit your responses to this letter together, as one complete package. Please contact me at (813)632-7600 ext. 374 if you have any questions.

Sincerely,



Melissa Madden
Solid Waste Section
Southwest District

mam

Cc (via email only):

Pete Stasis, P.E., Jones Edmunds & Associates, Inc, PStasis@jonesedmunds.com
Larry Ruiz, Hillsborough County Solid Waste, ruizle@hillsboroughcounty.org
Patty Berry, Hillsborough County Solid Waste, berryph@hillsboroughcounty.org
Ron Cope, HCEPC
Susan Pelz, FDEP Solid Waste



Madden, Melissa

From: Madden, Melissa
Sent: Thursday, April 29, 2010 11:45 AM
To: 'BoldissarB@hillsboroughcounty.org'
Cc: 'BerryP@hillsboroughcounty.org'; 'Ruiz, Larry'; Pelz, Susan; 'pstasis@jonesedmunds.com'
Subject: 35435-017-SO/MM RAI 2 Hillsborough County SELF Leachate Management Plan
Attachments: 35435-017-SO.MM RAI 2 Hills SELF LMP.pdf

Mr. Boldissar,

Please find attached RAI 2 for application no. 35435-017-SO/MM, Hillsborough County SELF Leachate Management Plan Minor Modification. This letter was transmitted electronically only.

Thank You,

Melissa Madden, Environmental Specialist II, Solid Waste Section

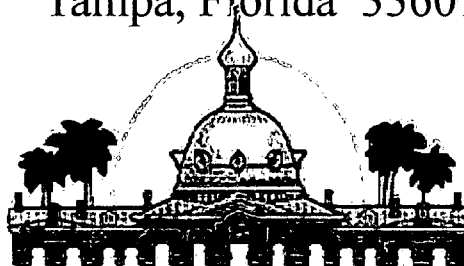
Florida Department of Environmental Protection - Southwest District
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
melissa.madden@dep.state.fl.us
813/632.7600 Ext. 374
813/632.7664 Fax

**LEACHATE MANAGEMENT PLAN UPDATES
RESPONSE TO FDEP REQUEST
FOR ADDITIONAL INFORMATION
PHASES I-VI AND THE
CAPACITY EXPANSION AREA
(SECTIONS 7, 8, AND 9)
SOUTHEAST COUNTY LANDFILL
HILLSBOROUGH COUNTY, FLORIDA**

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAR 31 2010
SOUTHWEST DISTRICT
TAMPA

Prepared for:

**HILLSBOROUGH COUNTY
SOLID WASTE MANAGEMENT DEPARTMENT**
601 E. Kennedy Blvd., 24th Floor
Tampa, Florida 33601



Prepared by:

JONES EDMUNDS & ASSOCIATES, INC.
324 S. Hyde Park Avenue, Suite 250
Tampa, Florida 33606



March 2010

Madden, Melissa

From: Madden, Melissa
Sent: Thursday, February 25, 2010 2:53 PM
To: 'Jason Timmons'; 'Ruiz, Larry'
Cc: Pelz, Susan
Subject: FW: SELF_RAI # 1_Leachate Mgmt Plan, Phase I-VI & Sections 7 & 8_Pending Mod 35435-017-SOMM - dated & mailed 2-25-2010.pdf (SECURED) - Adobe Acrobat Professional
Attachments: SELF_RAI # 1_Leachate Mgmt Plan, Phase I-VI & Sections 7 & 8_Pending Mod 35435-017-SOMM - dated & mailed 2-25-2010.pdf

Jason, Larry,

Please find attached RAI 1 for pending modification 35435-017-SO/MM (Leachate Management Plan). A hard copy was mailed today.

Thanks,

Melissa Madden, Environmental Specialist II, Solid Waste Section

Florida Department of Environmental Protection - Southwest District
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
melissa.madden@dep.state.fl.us
813/632.7600 Ext. 374
813/632.7664 Fax

From: Brantley, Anna
Sent: Thursday, February 25, 2010 2:43 PM
To: 'jtimmons@jonesedmonds.com'; 'ruizle@hillsboroughcounty.org'; 'Cope, Ron'; Pelz, Susan
Cc: Madden, Melissa
Subject: SELF_RAI # 1_Leachate Mgmt Plan, Phase I-VI & Sections 7 & 8_Pending Mod 35435-017-SOMM - dated & mailed 2-25-2010.pdf (SECURED) - Adobe Acrobat Professional

Attached please find Request for Additional Information (RAI # 1) letter for the subject solid waste facility.

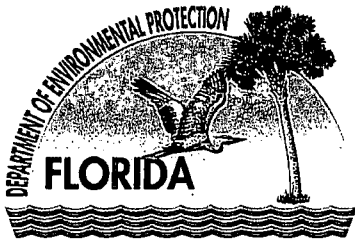
NOTE: If you have questions concerning the content of this document, please contact the DEP permit processor melissa.madden@dep.state.fl.us

This is the only electronic copy you will receive. Acrobat Reader 6.0 or greater is required to read this document, and is available for downloading at: <http://www.adobe.com/products/acrobat/readstep.html>

Anna

Anna Brantley
Administrative Assistant II
FL DEP / SWD / Waste Management
13051 North Telecom Parkway
Temple Terrace FL 33637-0629
Tel: 813/632-7600, Ext. 377
Fax: 813/632-7664
anna.brantley@dep.state.fl.us

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.



Florida Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-632-7600

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

February 25, 2010

Mr. Barry M. Boldissar, Director
Hillsborough County Solid Waste Management Department
601 E. Kennedy Blvd., 24th Floor
Tampa, Florida 33602

**RE: Hillsborough Southeast County Landfill
Leachate Management Plan, Phases I-VI and Sections 7 & 8
Pending Permit Modification No. 35435-017-SO/MM to
Permit No.: 35435-014-SO/01
Hillsborough County, WACS No. 41193**

Dear Mr. Boldissar:

This is to acknowledge receipt of the permit application prepared by Jones Edmunds & Associates, dated January 26, 2010 (received January 27, 2010), for modification of the Leachate Management Plan for a Class I landfill, referred to as the Hillsborough Southeast County Landfill, located 8.8 miles east of U.S. 301 on C.R. 672, Hillsborough County, Florida.

This letter constitutes notice that a permit will be required for your project pursuant to Chapter(s) 403, Florida Statutes.

Your application for a permit is incomplete. This is the Department's first request for information. Please provide the information listed below promptly. Evaluation of your proposed project will be delayed until all requested information has been received.

GENERAL:

1. The requested information and comments below do not necessarily repeat the information submitted by the applicant. However, every effort has been made to concisely refer to the section, page, drawing detail number, etc. where the information has been presented in the original submittal.
2. Please submit 4 copies of all requested information. Please specify if revised information is intended to supplement, or replace, previously submitted information. Please submit all revised plans and reports as a complete package. For revisions to the narrative reports, deletions may be struckthrough (~~struckthrough~~) and additions may be shaded shaded or similar notation method. This format will expedite the review process. Please include revision date on all revised pages.
3. Please provide a summary of all revisions to drawings, and indicate the revision on each of the applicable plan sheets. Please use a consistent numbering system for drawings. If new sheets must be added to the original plan set, please use the same numbering system with a prefix or suffix to indicate the sheet was an addition, e.g. Sheet 1A, 1B, P1-A, etc.

Inserted Into
OCULUS
Date: <u>2-26-2010</u>
Initials: <u>MM</u>

4. Please be advised that although some comments do not explicitly request additional information, the intent of all comments shall be to request revised calculations, narrative, technical specifications, QA documentation, plan sheets, clarification to the item, and/or other information as appropriate. **Please be reminded that all calculations must be signed and sealed by the registered professional engineer (or geologist as appropriate) who prepared them.**

The following information is needed in support of the solid waste application [Chapter 62-701, Florida Administrative Code (F.A.C.)]:

Leachate Management (Rule 62-701.500 (8), F.A.C.)

1. **Section 3.2.1.2.** Please define the use of the term, "standard practices," as it appears in this section and throughout the document, and explain how this is different than the "normal operating conditions" previously identified.
2. **Section 3.2.1.2.** Please clarify if the reference to the use of a submersible pump to evacuate the leachate detection sump is correct. Section 4.2.1 appears to indicate that the leachate detection sump is pumped via an above-grade pump.
3. **Section 4.0.** Please include containment structures details for each of the pump stations described in this section.
4. **Section 4.2.1, Appendix B, Section 7 Pump Station Schematic.** Please verify that leachate from the Section 7 leachate detection sump is currently being discharged to the Section 7 collection sump as described in this section. A review of Department files appears to indicate that the configuration explained in this section does not reflect the permitted design of leachate removal in Section 7/8. Please explain why the facility has deviated from the previously approved design which indicated that both discharge lines flowed into a single force main. Please clarify when the Facility began this method of leachate removal from Section 7/8 and the date of Department approval for the modified configuration. Based on the Section 7 Schematic, it does not appear that leachate from the primary collection is being metered prior to combination with the detection system. Please clarify if the collection and detection flows are being metered individually.
5. **Section 6.0.** Please include details about the recently installed spray curtain and procedures for ensuring the appropriate handling of leachate process foam should spills or overspray occur outside of containment.
6. **Appendix B, Leachate and Effluent/Leachate Storage Tank Schematic.** Please include leachate from Section 9 on this schematic.

Informational Comment:

1. **Section 2.0** refers to a submittal of the Gas Collection and Control System design and Operation Plan referenced as part of the Facility's Title V Permit. Please note that operation of the Gas Collection and Control System will require a modification of the landfill operating permit prior to operation of the Gas Collection and Control System.

This staff assessment is preliminary and is designed to assist in the review of the application prior to final agency action. The comments provided herein are not the final position of the department and may be subject to revision pursuant to additional information and further review.

Please respond **by March 31, 2010**, addressing all of the information requests and indicating when a response to any unanswered questions will be submitted. If the response will require longer than **the date noted above**, you should develop an alternate specific time table for the submission of the requested information for Department review and consideration. Pursuant to the provisions of Rule 62-4.055(1), F.A.C., if the Department does not receive a timely, complete response to this request for information the Department may issue a final order denying your application. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant may reapply as soon as the requested information is available.

You are requested to submit your responses to this letter together, as one complete package. Please contact me at (813)632-7600 ext. 374 if you have any questions.

Sincerely,



Melissa Madden
Solid Waste Section
Southwest District


mam

Cc (via email only):

Jason Timmons, P.E., Jones Edmunds, jtimmons@jonesedmonds.com

Larry Ruiz, Hillsborough County Solid Waste, ruizle@hillsboroughcounty.org

Ron Cope, HCEPC

 Susan Pelz, FDEP Solid Waste

Brantley, Anna

From: Brantley, Anna
Sent: Thursday, February 25, 2010 2:43 PM
To: 'jtimmons@jonesedmonds.com'; 'ruizle@hillsboroughcouonty.org'; 'Cope, Ron'; Pelz, Susan
Cc: Madden, Melissa
Subject: SELF_RAI # 1_Leachate Mgmt Plan, Phase I-VI & Sections 7 & 8_Pending Mod 35435-017-SOMM - dated & mailed 2-25-2010.pdf (SECURED) - Adobe Acrobat Professional
Attachments: SELF_RAI # 1_Leachate Mgmt Plan, Phase I-VI & Sections 7 & 8_Pending Mod 35435-017-SOMM - dated & mailed 2-25-2010

Attached please find Request for Additional Information (RAI # 1) letter for the subject solid waste facility.

NOTE: If you have questions concerning the content of this document, please contact the DEP permit processor melissa.madden@dep.state.fl.us

This is the only electronic copy you will receive. Acrobat Reader 6.0 or greater is required to read this document, and is available for downloading at: <http://www.adobe.com/products/acrobat/readstep.html>

Anna

Anna Brantley
Administrative Assistant II
FL DEP / SWD / Waste Management
13051 North Telecom Parkway
Temple Terrace FL 33637-0629
Tel: 813/632-7600, Ext. 377
Fax: 813/632-7664
anna.brantley@dep.state.fl.us

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**Southwest District
Permitting Application**

Susan

New Site

Site Name:		
Site ID:		
County:		
Type/Subcode:		
Fee submitted:	() correct	() incorrect
Total Fee Required \$ _____ Need \$ _____ Refund \$ _____		

Existing Site

Site ID: 35435 - 017		
Project Name: Hills SELF LMP MM	WACS ID#: 41193	
Type/Subcode: SO/MM	New / <u>Modification</u> / Renewal	
Fee submitted: \$ 250	/ correct	() incorrect
Total Fee Required \$ 250 Need \$ 0 Refund \$ 0		

Applicant Information

Name: BARRY Boldissar	
Role: Applicant	
Company: Hillsborough County Solid Waste	
Address:	
City: ON PLCE	Zip Code:
Phone:	

Fee verified by: MEUSSA MADDEN

Application Assigned To: MEUSSA MADDEN Date: 1.29.2010

BOARD OF COUNTY COMMISSIONERSHILLSBOROUGH COUNTY, FLORIDA
P. O. Box 1110
Tampa, FL 33601Wachovia Bank, N.A.
Charlotte, NC
Member FDIC
63-751 / 631

Warrant Number.

Date

03251840

01/25/2010

Net Amount

\$ *****250.00

PAY ***Two Hundred Fifty and 00/100 Dollars***TO THE
ORDER OFFL DEPT ENVIRONMENTAL PROTECTION
13051 N TELECOM PARKWAY
TEMPLE TERRACE FL 33637

Authorized In Open Session



SIGNATURE HAS A COLORED BACKGROUND • BORDER CONTAINS MICROPRINTING

Ker Hagen
CHAIRMAN
Pat Frank
CLERK

⑈0003251840⑈ ⑆063107513⑆ 2000027202931⑈

Please carefully detach the check from the remittance advice at the perforation

Vendor Number: 596007353 11 HILLSBOROUGH COUNTY, FLORIDA

Check Date: 01/25/2010

Check Number: 03251840

Document Number	Document Reference Number	Description	Net Amount
VFSW10003007 01		*SOUTHEAST CNTY LANDFILL MODIFICATION PERMIT 2010*	250.00
Total >>>			*****250.00

11639

JONES EDMUNDS

January 26, 2010

Susan J. Pelz, P.E.
Florida Department of Environmental Protection
Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Subject: Southeast County Landfill
Minor Permit Modification Application - Leachate Management Plan Updates
Permit No. 35435-014-SO/01, Hillsborough County

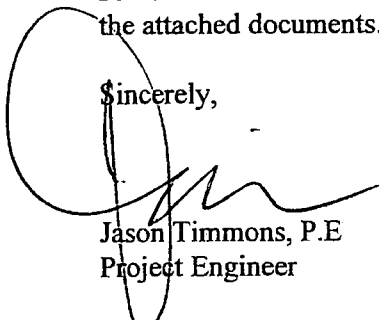
Dear Susan:

On behalf of the Hillsborough County Solid Waste Management Department, Jones Edmunds is providing this letter and enclosures for a minor permit modification to Permit No. 35435-014-SO/01. This minor modification includes updates to the Leachate Management Plan (LMP) for the Southeast County Landfill (SCLF) in accordance with Specific Condition D.2.b of the permit referenced above.

Three copies of the updated LMP were delivered to the FDEP on January 4, 2010. As requested in an email correspondence from FDEP on January 7, 2010, the attached minor permit modification application DEP Form # 62-701.900(1) (four copies), signature page (four originals), \$250 application fee (enclosed check # 03251840), and one additional copy of the updated LMP documents, are being provided under this correspondence to accompany the updated LMP packages previously submitted to FDEP on January 4, 2010 to complete the minor permit modification application package.

Please contact me at 813/258-0703 if you have any questions or comments regarding the updated LMP or the attached documents.

Sincerely,



Jason Timmons, P.E.
Project Engineer

T:\08449 - Hillsborough\030-04 SCLF General Services\2100 - Leachate Management\LMP Revisions\LTR SPelz LMPUpdate1.12.10.doc

cc: Patricia V. Berry, SWMD
Megan Miller, SWMD
Larry E. Ruiz, SWMD
Ron Cope, EPC

324 South Hyde Park Avenue
Suite 250
Tampa, FL 33606

813.258.0703 Phone
813.254.6860 Fax
www.jonesedmunds.com

MINOR PERMIT MODIFICATION APPLICATION

DEP FORM #62-701.900(1)



Florida Department of Environmental Protection
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

DEP Form # 62-701.900(1)
Form Title Solid Waste Management Facility Permit
Effective Date 05-27-01

DEP Application No. _____
(Filled by DEP)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

**APPLICATION FOR A PERMIT TO CONSTRUCT,
OPERATE, MODIFY OR CLOSE
A SOLID WASTE MANAGEMENT FACILITY**

APPLICATION INSTRUCTIONS AND FORMS

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

INSTRUCTIONS TO APPLY FOR A SOLID WASTE MANAGEMENT FACILITY PERMIT

.. General

Solid Waste Management Facilities shall be permitted pursuant to Section 403.707, Florida Statutes, (FS) and in accordance with Florida Administrative Code (FAC) Chapter 62-701. A minimum of four copies of the application shall be submitted to the Department's District Office having jurisdiction over the facility. The appropriate fee in accordance with Rule 62-701.315, FAC, shall be submitted with the application by check made payable to the Department of Environmental Protection (DEP).

Complete appropriate sections for the type of facility for which application is made. Entries shall be typed or printed in ink. All blanks shall be filled in or marked "not applicable" or "no substantial change". Information provided in support of the application shall be marked "submitted" and the location of this information in the application package indicated. The application shall include all information, drawings, and reports necessary to evaluate the facility. Information required to complete the application is listed on the attached pages of this form.

II. Application Parts Required for Construction and Operation Permits

- A. Landfills and Ash Monofills - Submit parts A, B, D through T
- B. Asbestos Monofills - Submit parts A, B, D, E, F, G, J, L, N, P through S, and T
- C. Industrial Solid Waste Facilities - Submit parts A, B, D through T
- D. Non-Disposal Facilities - Submit parts A, C, D, E, J, N, S and T

NOTE: Portions of some parts may not be applicable.

NOTE: For facilities that have been satisfactorily constructed in accordance with their construction permit, the information required for A, B, C and D type facilities does not have to be resubmitted for an operation permit if the information has not substantially changed during the construction period. The appropriate portion of the form should be marked "no substantial change".

III. Application Parts Required for Closure Permits

- A. Landfills and Ash Monofills - Submit parts A, B, M, O through T
- B. Asbestos Monofills - Submit parts A, B, N, P through T
- C. Industrial Solid Waste Facilities - Submit parts A, B, M through T
- D. Non-Disposal Facilities - Submit parts A, C, N, S and T

NOTE: Portions of some parts may not be applicable.

IV. Permit Renewals

The above information shall be submitted at time of permit renewal in support of the new permit. However, facility information that was submitted to the Department to support the expiring permit, and which is still valid, does not need to be re-submitted for permit renewal. Portions of the application not re-submitted shall be marked "no substantial change" on the application form.

V. Application Codes

S	-	Submitted
LOCATION	-	Physical location of information in application
N/A	-	Not Applicable
N/C	-	No Substantial Change

VI. LISTING OF APPLICATION PARTS

PART A:	GENERAL INFORMATION
PART B:	DISPOSAL FACILITY GENERAL INFORMATION
PART C:	NON-DISPOSAL FACILITY GENERAL INFORMATION
PART D:	PROHIBITIONS
PART E:	SOLID WASTE MANAGEMENT FACILITY PERMIT REQUIREMENTS, GENERAL
PART F:	LANDFILL PERMIT REQUIREMENTS
PART G:	GENERAL CRITERIA FOR LANDFILLS
PART H:	LANDFILL CONSTRUCTION REQUIREMENTS
PART I:	HYDROGEOLOGICAL INVESTIGATION REQUIREMENTS
PART J:	GEOTECHNICAL INVESTIGATION REQUIREMENTS
PART K:	VERTICAL EXPANSION OF LANDFILLS
PART L:	LANDFILL OPERATION REQUIREMENTS
PART M:	WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS
PART N:	SPECIAL WASTE HANDLING REQUIREMENTS
PART O:	GAS MANAGEMENT SYSTEM REQUIREMENTS
PART P:	LANDFILL CLOSURE REQUIREMENTS
PART Q:	CLOSURE PROCEDURES
PART R:	LONG TERM CARE REQUIREMENTS
PART S:	FINANCIAL RESPONSIBILITY REQUIREMENTS
PART T:	CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
APPLICATION FOR A PERMIT TO CONSTRUCT, OPERATE, MODIFY, OR CLOSE
A SOLID WASTE MANAGEMENT FACILITY

Please Type or Print

A. GENERAL INFORMATION

1. Type of facility (check all that apply):

☒ Disposal

☒ Class I Landfill

☐ Ash Monofill

☐ Class II Landfill

☐ Asbestos Monofill

☐ Class III Landfill

☐ Industrial Solid Waste

☐ Other Describe: _____

☐ Non-Disposal

☐ Incinerator for Non-biomedical Waste

☐ Waste to Energy Without Power Plant Certification

☐ Other Describe: _____

NOTE: Waste Processing Facilities should apply on Form 62-701.900(4), FAC;
Land Clearing Disposal Facilities should notify on Form 62-701.900(3), FAC;
Compost Facilities should apply on Form 62-701.900(10), FAC; and
C&D Disposal Facilities should apply on Form 62-701.900(6), FAC

2. Type of application:

☐ Construction

☒ Operation

☐ Construction/Operation

☐ Closure

3. Classification of application:

☐ New

☐ Substantial Modification

☐ Renewal

☐ Intermediate Modification

☒ Minor Modification

4. Facility name: Southeast County Landfill

Phases I - VI and Capacity Expansion Area (Permit No. 35435-014-SO/01)

5. DEP ID number: SWD/29/41193 County: Hillsborough

6. Facility location (main entrance): 8.8 miles east of U.S. Hwy 301 on CR 672

7. Location coordinates:

Sections: 13, 14, 15, 18, 19, 22, 23, 24 Township: 31S Range: 21E, 22E

Latitude: 27 ° 46 ' 26 " Longitude: 82 ° 11 ' 01 " (Phases I-VI)

Latitude: 27 ° 46 ' 38 " Longitude: 82 ° 10 ' 38 " (Sections 7/8/9)

Latitude: 27 ° 46 ' 42 " Longitude: 82 ° 10 ' 20 " (Effluent Storage Tank)

8. Applicant name (operating authority): Hillsborough County Solid Waste Management Department
- Mailing address: 601 East Kennedy Boulevard, 24th Floor Tampa Florida 33602
Street or P.O. Box City State Zip
- Contact person: Mr. Barry M. Boldissar Telephone: (813) 272-5680
- Title: Director
- boldissarb@hillsboroughcounty.org
E-Mail address (if available)
9. Authorized agent/Consultant: Jones Edmunds & Associates, Inc.
- Mailing address: 324 S. Hyde Park Ave. Suite 250 Tampa Florida 33606
Street or P.O. Box City State Zip
- Contact person: Jason E. Timmons, P.E. Telephone: (813) 258-0703
- Title: Project Engineer
- jtimmons@jonesedmunds.com
E-Mail address (if available)
10. Landowner (if different than applicant): N/A
- Mailing address: N/A
Street or P.O. Box City State Zip
- Contact person: N/A Telephone: () N/A
- E-Mail address (if available)
11. Cities, towns and areas to be served: City of Tampa, Temple Terrace, and Hillsborough County
12. Population to be served: N/A
Current: N/A Five-Year Projection: N/A
13. Date site will be ready to be inspected for completion: N/A
14. Expected life of the facility: N/A
15. Estimated costs:
Total Construction: N/A Closing Costs: \$ N/A
16. Anticipated construction starting and completion dates:
From: N/A To: N/A
17. Expected volume or weight of waste to be received: N/A
_____ yds³/day _____ tons/day _____ gallons/day

B. DISPOSAL FACILITY GENERAL INFORMATION

- .. Provide brief description of disposal facility design and operations planned under this application:

This Operation Permit Minor Modification Application presents information to update the Leachate Management Plan for the Southeast County Landfill.

2. Facility site supervisor: Mr. Larry E. Ruiz, AIA
Title: General Manager Telephone: (813) 671-7707
ruizle@hillsboroughcounty.org
E-Mail address (if available)
3. Disposal area: Total 162.4 acres; Used 162.4 acres; Available 0 acres (Phases I-VI)
Disposal area: Total 34.5 acres; Used 34.5 acres; Available 0 acres (Section 7/8/9)
4. Weighing scales used: ☒ Yes ☐ No
5. Security to prevent unauthorized use: ☒ Yes ☐ No
6. Charge for waste received: _____ \$/yds³ 39.79 \$/ton
7. Surrounding land use, zoning:
☒ Residential ☐ Industrial
☒ Agricultural ☐ None
☐ Commercial ☐ Other Describe: _____
8. Types of waste received:
☒ Residential ☒ C & D debris
☒ Commercial ☒ Shredded/cut tires
☒ Incinerator/WTE ash ☐ Yard trash
☐ Treated biomedical ☐ Septic tank
☒ Water treatment sludge ☒ Industrial
☒ Air treatment sludge ☒ Industrial sludge
☒ Agricultural ☐ Domestic sludge
☒ Asbestos
☐ Other Describe: _____
9. Salvaging permitted: ☐ Yes ☒ No
10. Attendant: ☒ Yes ☐ No Trained operator: ☒ Yes ☐ No
11. Spotters: Yes ☒ No ☐ Number of spotters used: 1 minimum
12. Site located in: ☐ Floodplain ☐ Wetlands ☒ Other upland; closed phosphate mine

13. Property recorded as a Disposal Site in County Land Records: ☒ Yes ☐ No
4. Days of operation: Monday-Saturday
15. Hours of operation: 7:30 AM to 5:30 PM
16. Days Working Face covered: Monday-Saturday
17. Elevation of water table: 123.72 SHGWT Ft. (NGVD 1929)
18. Number of monitoring wells: 8 and 2 background (Phases I-VI), 7 and 1 background (Section 7, 8, and 9)
19. Number of surface monitoring points: 4 and 1 with water level only
20. Gas controls used: ☒ Yes ☐ No Type controls: ☒ Active ☐ Passive
Gas flaring: ☒ Yes ☐ No Gas recovery: ☐ Yes ☒ No
21. Landfill unit liner type:
☐ Natural soils ☒ Double geomembrane
☐ Single clay liner ☐ Geomembrane & composite
☐ Single geomembrane ☒ Double composite
☐ Single composite ☐ None
☐ Slurry wall
☒ Other Describe: Phosphatic Clay, 4-18 feet in thickness (Phases I-VI only)
22. Leachate collection method:
☒ Collection pipes ☒ Sand layer
☒ Geonets (Section 7,8, and 9 only) ☒ Gravel layer
☐ Well points ☒ Interceptor trench
☐ Perimeter ditch ☐ None
☒ Other Describe: Pump Station and Chipped Tire Layer.
23. Leachate storage method:
☒ Tanks
☒ Surface impoundments
☐ Other Describe: _____
24. Leachate treatment method:
☐ Oxidation ☐ Chemical treatment
☐ Secondary ☐ Settling
☐ Advanced
☐ None
☒ Other Biological Treatment System On-Site

25. Leachate disposal method:

☐ Recirculated ☒ Pumped to WWTP (onsite)
☒ Transported to WWTP ☐ Discharged to surface water
☐ Injection well ☐ Percolation ponds
☒ Evaporation
☒ Other Storage pond evaporation or spray irrigation after treatment at the on-site treatment facility

26. For leachate discharged to surface waters:

Name and Class of receiving water: Leachate is not discharged to surface waters

27. Storm Water:

Collected: ☒ Yes ☐ No

Type of treatment: Detention/ Filtration

Name and Class of receiving water: A tributary of Long Flat Creek

28. Environmental Resources Permit (ERP) number or status: Permit No. 29-0270881-004

C. NON-DISPOSAL FACILITY GENERAL INFORMATION N/A

1. Provide brief description of the non-disposal facility design and operations planned under this application:

2. Facility site supervisor: _____

Title: _____ Telephone: (____) _____

_____ E-Mail address (if available)

3. Site area: Facility _____ acres; Property _____ acres

4. Security to prevent unauthorized use: ☐ Yes ☐ No

5. Site located in: ☐ Floodplain ☐ Wetlands ☐ Other _____

6. Days of operation: _____

7. Hours of operation: _____

8. Number of operating staff: _____

Expected useful life: _____ Years

10. Weighing scales used: ☐ Yes ☐ No

11. Normal processing rate: _____ yd³/day _____ tons/day _____ gal/day

12. Maximum processing rate: _____ yd³/day _____ tons/day _____ gal/day

13. Charge for waste received: _____

14. Storm Water Collected: ☐ Yes ☐ No

Type of treatment: _____

Name and Class of receiving water: _____

15. Environmental Resources Permit (ERP) number or status: _____

16. Final residue produced:

_____ % of normal processing rate _____ % of maximum processing rate

_____ Tons/day _____ Tons/day

Disposed of at:

Facility name: _____ County: _____

17. Estimated operating costs: \$ _____
- Total cost/ton: \$ _____ Net cost/ton: \$ _____
18. Provide a site plan, at a scale not greater than 200 feet to the inch, which shows the facility location and identifies the proposed waste and final residue storage areas, total acreage of the site, and any other features which are relevant to the prohibitions or location restrictions in Rule 62-701.300, FAC, such as water bodies or wetlands on or within 200 feet of the site, and potable water wells on or within 500 feet of the site.
19. Provide a description of how the waste and final residue will be managed to not be expected to cause violations of the Department's ground water, surface water or air standards or criteria
20. Provide an estimate of the maximum amount of waste and final residue that will be store on-site.
21. Provide a detailed description of the technology use at the facility and the functions of all processing equipment that will be utilized. The descriptions shall explain the flow of waste and residue through all the proposed unit operations and shall include: (1) regular facility operations as they are expected to occur; (2) procedures for start up operations, and scheduled and unscheduled shut down operations; (3) potential safety hazards and control methods, including fire detection and control; (4) a description of any expected air emissions and wastewater discharges from the facility which may be potential pollution sources; (5) a description and usage rate of any chemical or biological additives that will be used in the process; and (6) process flow diagrams for the facility operations.
22. Provide a description of the loading, unloading, and processing areas.
23. Provide a description of the leachate control system that will be used to prevent discharge of leachate to the environment and mixing of leachate with stormwater. Note: Ground water monitoring may be required for the facility depending on the method of leachate control used.
24. Provide an operation plan for the facility which includes: (1) a description of general facility operations, the number of personnel responsible for the operations including their respective job descriptions, and the types of equipment that will be used at the facility; (2) procedures to ensure any unauthorized wastes received at the site will be properly managed; (3) a contingency plan to cover operation interruptions and emergencies such as fires, explosions, or natural disasters; (4) procedures to ensure operational records needed for the facility will be adequately prepared and maintained; and (5) procedures to ensure that the wastes and final residue will be managed to not be expected to cause pollution.
25. Provide a closure plan that describes the procedures that will be implemented when the facility closes including: (1) estimated time to complete closure; (2) procedures for removing and properly managing or disposing of all wastes and final residues; (3) notification of the Department upon ceasing operations and completion of final closure.

D. **PROHIBITIONS** (62-701.300, FAC)

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
_____	_____	<u>X</u>	_____	1. Provide documentation that each of the siting criteria will be satisfied for the facility; (62-701.300(2), FAC)
_____	_____	<u>X</u>	_____	2. If the facility qualifies for any of the exemptions contained in Rules 62-701.300(12) through (16), FAC, then document this qualification(s).
_____	_____	<u>X</u>	_____	3. Provide documentation that the facility will be in compliance with the burning restrictions; (62-701.300(3), FAC)
_____	_____	<u>X</u>	_____	4. Provide documentation that the facility will be in compliance with the hazardous waste restrictions; (62-701.300(4), FAC)
_____	_____	<u>X</u>	_____	5. Provide documentation that the facility will be in compliance with the PCB disposal restrictions; (62-701.300(5), FAC)
_____	_____	<u>X</u>	_____	6. Provide documentation that the facility will be in compliance with the biomedical waste restrictions; (62-701.300(6), FAC)
_____	_____	<u>X</u>	_____	7. Provide documentation that the facility will be in compliance with the Class I surface water restrictions; (62-701.300(7), FAC)
_____	_____	<u>X</u>	_____	8. Provide documentation that the facility will be in compliance with the special waste for landfills restrictions; (62-701.300(8), FAC)
_____	_____	<u>X</u>	_____	9. Provide documentation that the facility will be in compliance with the special waste for waste-to-energy facilities restrictions; (62-701.300(9), FAC)
_____	_____	<u>X</u>	_____	10. Provide documentation that the facility will be in compliance with the liquid restrictions; (62-701.300(10), FAC)
_____	_____	<u>X</u>	_____	11. Provide documentation that the facility will be in compliance with the used oil restrictions; (62-701.300(11), FAC)

E. SOLID WASTE MANAGEMENT FACILITY PERMIT REQUIREMENTS, GENERAL (62-701.320, FAC)

<u>✓</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
<u>X</u>	<u>Enclosed</u>	<u> </u>	<u> </u>	1. Four copies, at minimum, of the completed application form, all supporting data and reports; (62-701.320(5)(a), FAC)
<u>X</u>	<u>Enclosed</u>	<u> </u>	<u> </u>	2. Engineering and/or professional certification (signature, date and seal) provided on the applications and all engineering plans, reports and supporting information for the application; (62-701.320(6), FAC)
<u>X</u>	<u>Enclosed</u>	<u> </u>	<u> </u>	3. A letter of transmittal to the Department; (62-701.320(7)(a), FAC)
<u>X</u>	<u>Enclosed</u>	<u> </u>	<u> </u>	4. A completed application form dated and signed by the applicant; (62-701.320(7)(b), FAC)
<u>X</u>	<u>Enclosed</u>	<u> </u>	<u> </u>	5. Permit fee specified in Rule 62-701.315, FAC in check or money order, payable to the Department; (62-701.320(7)(c), FAC)
<u> </u>	<u> </u>	<u>X</u>	<u> </u>	6. An engineering report addressing the requirements of this rule and with the following format: a cover sheet, text printed on 8 1/2 inch by 11 inch consecutively numbered pages, a table of contents or index, the body of the report and all appendices including an operation plan, contingency plan, illustrative charts and graphs, records or logs of tests and investigations, engineering calculations; (62-701.320(7)(d), FAC)
<u> </u>	<u> </u>	<u>X</u>	<u> </u>	7. Operation Plan and Closure Plan; (62-701.320(7)(e)1, FAC)
<u> </u>	<u> </u>	<u>X</u>	<u> </u>	8. Contingency Plan; (62-701.320(7)(e)2, FAC)
<u> </u>	<u> </u>	<u> </u>	<u> </u>	9. Plans or drawings for the solid waste management facilities in appropriate format (including sheet size restrictions, cover sheet, legends, north arrow, horizontal and vertical scales, elevations referenced to NGVD 1929) showing; (62-702.320(7)(f), FAC)
<u> </u>	<u> </u>	<u>X</u>	<u> </u>	a. A regional map or plan with the project location;
<u> </u>	<u> </u>	<u>X</u>	<u> </u>	b. A vicinity map or aerial photograph no more than 1 year old;
<u> </u>	<u> </u>	<u>X</u>	<u> </u>	c. A site plan showing all property boundaries certified by a registered Florida land surveyor;

S LOCATION N/A N/C

PART E CONTINUED

- | | | | | |
|-------|-------|----------|-------|--|
| _____ | _____ | <u>X</u> | _____ | d. Other necessary details to support the engineering report. |
| _____ | _____ | <u>X</u> | _____ | 10. Documentation that the applicant either owns the property or has legal authority from the property owner to use the site; (62-701.320(7)(g), FAC) |
| _____ | _____ | <u>X</u> | _____ | 11. For facilities owned or operated by a county, provide a description of how, if any, the facilities covered in this application will contribute to the county's achievement of the waste reduction and recycling goals contained in Section 403.706,FS; (62-701.320(7)(h),FAC) |
| _____ | _____ | <u>X</u> | _____ | 12. Provide a history and description of any enforcement actions taken by the Department against the applicant for violations of applicable statutes, rules, orders or permit conditions relating to the operation of any solid waste management facility in this state; (62-701.320(7)(i), FAC) |
| _____ | _____ | <u>X</u> | _____ | 13. Proof of publication in a newspaper of general circulation of notice of application for a permit to construct or substantially modify a solid waste management facility; (62-702.320(8), FAC) |
| _____ | _____ | <u>X</u> | _____ | 14. Provide a description of how the requirements for airport safety will be achieved including proof of required notices if applicable. If exempt, explain how the exemption applies; (62-701.320(13), FAC) |
| _____ | _____ | <u>X</u> | _____ | 15. Explain how the operator training requirements will be satisfied for the facility; (62-701.320(15), FAC) |

F. LANDFILL PERMIT REQUIREMENTS (62-701.330, FAC)

<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
<u> </u>	<u> X </u>	<u> </u>	1. Vicinity map or aerial photograph no more than 1 year old and of appropriate scale showing land use and local zoning within one mile of the landfill and of sufficient scale to show all homes or other structures, water bodies, and roads other significant features of the vicinity. All significant features shall be labeled; (62-701.330(3)(a), FAC)
<u> </u>	<u> X </u>	<u> </u>	2. Vicinity map or aerial photograph no more than 1 year old showing all airports that are located within five miles of the proposed landfill; (62-701.330(3)(b), FAC)
<u> </u>	<u> X </u>	<u> </u>	3. Plot plan with a scale not greater than 200 feet to the inch showing; (62-701.330(3)(c), FAC)
<u> </u>	<u> X </u>	<u> </u>	a. Dimensions;
<u> </u>	<u> X </u>	<u> </u>	b. Locations of proposed and existing water quality monitoring wells;
<u> </u>	<u> X </u>	<u> </u>	c. Locations of soil borings;
<u> </u>	<u> X </u>	<u> </u>	d. Proposed plan of trenching or disposal areas;
<u> </u>	<u> X </u>	<u> </u>	e. Cross sections showing original elevations and proposed final contours which shall be included either on the plot plan or on separate sheets;
<u> </u>	<u> X </u>	<u> </u>	f. Any previously filled waste disposal areas;
<u> </u>	<u> X </u>	<u> </u>	g. Fencing or other measures to restrict access.
			4. Topographic maps with a scale not greater than 200 feet to the inch with 5-foot contour intervals showing; (62-701.330(3)(d), FAC):
<u> </u>	<u> X </u>	<u> </u>	a. Proposed fill areas;
<u> </u>	<u> X </u>	<u> </u>	b. Borrow areas;
<u> </u>	<u> X </u>	<u> </u>	c. Access roads;
<u> </u>	<u> X </u>	<u> </u>	d. Grades required for proper drainage;
<u> </u>	<u> X </u>	<u> </u>	e. Cross sections of lifts;

S LOCATION N/A N/C

PART M CONTINUED

d. Surface water monitoring requirements;
 (62-701.510(4), FAC)

_____ _____ X _____

(1) Location of and justification for all proposed
 surface water monitoring points;

_____ _____ X _____

(2) Each monitoring location to be marked and its
 position determined by a registered
 Florida land surveyor;

X Enclosed LMP _____ _____

e. Leachate sampling locations proposed;
 (62-701.510(5), FAC)

f. Initial and routine sampling frequency and
 requirements; (62-701.510(6), FAC)

_____ _____ X _____

(1) Initial background ground water and surface
 water sampling and analysis requirements;

X Enclosed LMP _____ _____

(2) Routine leachate sampling and analysis
 requirements;

_____ _____ X _____

(3) Routine monitoring well sampling and analysis
 requirements;

_____ _____ X _____

(4) Routine surface water sampling and analysis
 requirements.

_____ _____ X _____

g. Describe procedures for implementing evaluation
 monitoring, prevention measures and
 corrective action as required; (62-
 701.510(7), FAC)

_____ _____ X _____

h. Water quality monitoring report requirements;
 (62-701.510(9), FAC)

_____ _____ X _____

(1) Semi-annual report requirements;

_____ _____ X _____

(2) Bi-annual report requirements signed, dated, and
 sealed by PG or PE.

N. SPECIAL WASTE HANDLING REQUIREMENTS (62-701.520, FAC)

<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
_____	<u>X</u>	_____	1. Describe procedures for managing motor vehicles; (62-701.520(1), FAC)
_____	<u>X</u>	_____	2. Describe procedures for landfilling shredded waste; (62-701.520(2), FAC)
_____	<u>X</u>	_____	3. Describe procedures for asbestos waste disposal; (62-701.520(3), FAC)
_____	<u>X</u>	_____	4. Describe procedures for disposal or management of contaminated soil; (62-701.520(4), FAC)
_____	<u>X</u>	_____	5. Describe procedures for disposal of biological wastes; (62-701.520(5), FAC)

O. GAS MANAGEMENT SYSTEM REQUIREMENTS (62-701.530, FAC)

			1. Provide the design for a gas management system that will (62-701.530(1), FAC):
_____	<u>X</u>	_____	a. Be designed to prevent concentrations of combustible gases from exceeding 25% the LEL in structures and 100% the LEL at the property boundary;
_____	<u>X</u>	_____	b. Be designed for site-specific conditions;
_____	<u>X</u>	_____	c. Be designed to reduce gas pressure in the interior of the landfill;
_____	<u>X</u>	_____	d. Be designed to not interfere with the liner, leachate control system, or final cover.
_____	<u>X</u>	_____	2. Provide documentation that will describe locations, construction details and procedures for monitoring gas at ambient monitoring points and with soil monitoring probes; (62-701.530(2), FAC):
_____	<u>X</u>	_____	3. Provide documentation describing how the gas remediation plan and odor remediation plan will be implemented; (62-701.530(3), FAC):
			4. Landfill gas recovery facilities; (62-701.530(5), FAC):
_____	<u>X</u>	_____	a. Information required in Rules 62-701.320(7) and 62-701.330(3), FAC supplied;
_____	<u>X</u>	_____	b. Information required in Rule 62-701.600(4), FAC supplied where relevant and practical;
_____	<u>X</u>	_____	c. Estimate of current and expected gas generation rates and description of condensate disposal methods provided;

PART 0 CONTINUED

- d. Description of procedures for condensate sampling, analyzing, and data reporting provided;
- e. Closure plan provided describing methods to control gas after recovery facility ceases operation and any other requirements contained in Rule 62-701.400(10), FAC;
- f. Performance bond provided to cover closure costs if not already included in other landfill closure costs.

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- a. Documentation that a written notice including a schedule for closure will be provided to the Department at least one year prior to final receipt of wastes;
- b. Notice to user requirements within 120 days of final receipt of wastes;
- c. Notice to public requirements within 10 days of final receipt of wastes.

- a. Application submitted to Department at least 90 days prior to final receipt of wastes;
- b. Closure plan shall include the following:
 - (1) Closure report;
 - (2) Closure design plan;
 - (3) Closure operation plan;
 - (4) Closure procedures;
 - (5) Plan for long term care;
 - (6) A demonstration that proof of financial responsibility for long term care will be provided.

- a. General information requirements;
- (1) Identification of landfill;

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	PART P CONTINUED	
_____	_____	<u>X</u>	_____	(2)	Location, description, and vicinity map;
_____	_____	<u>X</u>	_____	(3)	Total acres of disposal areas and landfill property;
_____	_____	<u>X</u>	_____	(4)	Legal property description;
_____	_____	<u>X</u>	_____	(5)	History of landfill;
_____	_____	<u>X</u>	_____	(6)	Identification of types of waste disposed of at the landfill.
_____	_____	<u>X</u>	_____	b.	Geotechnical investigation report and water quality monitoring plan required by Rule 62-701.330(3), FAC;
_____	_____	<u>X</u>	_____	c.	Land use information report indicating: identification of adjacent landowners; zoning; present land uses; and roads, highways right-of-way, or easements.
_____	_____	<u>X</u>	_____	d.	Report on actual or potential gas migration at landfills containing degradable wastes which would allow migration of gas off the landfill property;
_____	_____	<u>X</u>	_____	e.	Report assessing the effectiveness of the landfill design and operation including results of geotechnical investigations, surface water and storm water management, gas migration and concentrations, condition of existing cover, and nature of waste disposed of at the landfill;
				4.	Closure design requirements to be included in the closure design plan: (62-701.600(5), FAC)
_____	_____	<u>X</u>	_____	a.	Plan sheet showing phases of site closing;
_____	_____	<u>X</u>	_____	b.	Drawings showing existing topography and proposed final grades;
_____	_____	<u>X</u>	_____	c.	Provisions to close units when they reach approved design dimensions;
_____	_____	<u>X</u>	_____	d.	Final elevations before settlement;
_____	_____	<u>X</u>	_____	e.	Side slope design including benches, terraces, down slope drainage ways, energy dissipaters and discussion of expected precipitation effects;
_____	_____	<u>X</u>	_____	f.	Final cover installation plans including:
_____	_____	<u>X</u>	_____	(1)	CQA plan for installing and testing final cover;

S LOCATION N/A N/C

PART P CONTINUED

_____ _____ X _____

(2) Schedule for installing final cover after final receipt of waste;

_____ _____ X _____

(3) Description of drought-resistant species to be used in the vegetative cover;

_____ _____ X _____

(4) Top gradient design to maximize runoff and minimize erosion;

_____ _____ X _____

(5) Provisions for cover material to be used for final cover maintenance.

g. Final cover design requirements:

_____ _____ X _____

(1) Protective soil layer design;

_____ _____ X _____

(2) Barrier soil layer design;

_____ _____ X _____

(3) Erosion control vegetation;

_____ _____ X _____

(4) Geomembrane barrier layer design;

_____ _____ X _____

(5) Geosynthetic clay liner design if used;

_____ _____ X _____

(6) Stability analysis of the cover system and the disposed waste.

_____ _____ X _____

h. Proposed method of stormwater control;

_____ _____ X _____

i. Proposed method of access control;

_____ _____ X _____

j. Description of proposed final use of the closed landfill, if any;

_____ _____ X _____

k. Description of the proposed or existing gas management system which complies with Rule 62-701.530, FAC.

5. Closure operation plan shall include:
(62-701.600(6), FAC)

_____ _____ X _____

a. Detailed description of actions which will be taken to close the landfill;

_____ _____ X _____

b. Time schedule for completion of closing and long term care;

_____ _____ X _____

c. Describe proposed method for demonstrating financial responsibility;

_____ _____ X _____

d. Indicate any additional equipment and personnel needed to complete closure.

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>
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PART P CONTINUED

_____	_____	<u>X</u>	_____
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e. Development and implementation of the water quality monitoring plan required in Rule 62-701.510, FAC.

_____	_____	<u>X</u>	_____
-------	-------	----------	-------

f. Development and implementation of gas management system required in Rule 62-701.530, FAC.

_____	_____	<u>X</u>	_____
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6. Justification for and detailed description of procedures to be followed for temporary closure of the landfill, if desired; (62-701.600(7), FAC)

Q. CLOSURE PROCEDURES (62-701.610, FAC)

<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
<u> </u>	<u>X</u>	<u> </u>	1. Survey monuments; (62-701.610(2), FAC)
<u> </u>	<u>X</u>	<u> </u>	2. Final survey report; (62-701.610(3), FAC)
<u> </u>	<u>X</u>	<u> </u>	3. Certification of closure construction completion; (62-701.610(4), FAC)
<u> </u>	<u>X</u>	<u> </u>	4. Declaration to the public; (62-701.610(5), FAC)
<u> </u>	<u>X</u>	<u> </u>	5. Official date of closing; (62-701.610(6), FAC)
<u> </u>	<u>X</u>	<u> </u>	6. Use of closed landfill areas; (62-701.610(7), FAC)
<u> </u>	<u>X</u>	<u> </u>	7. Relocation of wastes; (62-701.610(8), FAC)

R. LONG TERM CARE REQUIREMENTS (62-701.620, FAC)

<u> </u>	<u>X</u>	<u> </u>	1. Maintaining the gas collection and monitoring system; (62-701.620(5), FAC)
<u> </u>	<u>X</u>	<u> </u>	2. Right of property access requirements; (62-701.620(6), FAC)
<u> </u>	<u>X</u>	<u> </u>	3. Successors of interest requirements; (62-701.620(7), FAC)
<u> </u>	<u>X</u>	<u> </u>	4. Requirements for replacement of monitoring devices; (62-701.620(9), FAC)
<u> </u>	<u>X</u>	<u> </u>	5. Completion of long term care signed and sealed by professional engineer (62-701.620(10), FAC).

S. FINANCIAL RESPONSIBILITY REQUIREMENTS (62-701.630, FAC)

<u> </u>	<u>X</u>	<u> </u>	1. Provide cost estimates for closing, long term care, and corrective action costs estimated by a PE for a third party performing the work, on a per unit basis, with the source of estimates indicated; (62-701.630(3)&(7), FAC).
<u> </u>	<u>X</u>	<u> </u>	2. Describe procedures for providing annual cost adjustments to the Department based on inflation and changes in the closing, long-term care, and corrective action plans; (62-701.630(4)&(8), FAC).
<u> </u>	<u>X</u>	<u> </u>	3. Describe funding mechanisms for providing proof of financial assurance and include appropriate financial assurance forms; (62-701.630(5),(6),&(9), FAC).

T. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

1. Applicant:

The undersigned applicant or authorized representative of the Hillsborough County Solid Waste Management Department is aware that statements made in this form and attached information are an application for a Minor Modification to the Operations Permit from the Florida Department of Environmental Protection and certifies that the information in this application is true, correct and complete to the best of his/her knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department. It is understood that the Permit is not transferable, and the Department will be notified prior to the sale or legal transfer of the permitted facility.


Signature of Applicant or Agent

Mr. Barry M. Boldissar
Director
Name and Title (please type)

boldissarb@hillsboroughcounty.org
E-Mail address (if available)

County Center
601 East Kennedy Boulevard, 24th Floor
Mailing Address

Tampa, Florida 33602
City, State, Zip Code

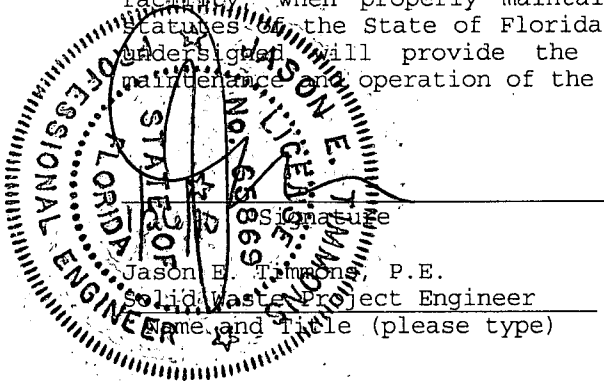
(813) 272-5680
Telephone Number

Date: 1/13/10

Attach letter of authorization if agent is not a governmental official, owner, or corporate officer.

2. Professional Engineer registered in Florida (or Public Officer if authorized under Sections 403.707 and 403.7075, Florida Statutes):

This is to certify that the engineering features of this solid waste management facility have been designed/examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, this facility when properly maintained and operated, will comply with all applicable statutes of the State of Florida and rules of the Department. It is agreed that the undersigned will provide the applicant with a set of instructions of proper maintenance and operation of the facility.



Jason E. Timmons, P.E.
Solid Waste Project Engineer
Name and Title (please type)

65869
Florida Registration Number
(please affix seal)
Jones Edmunds & Associates, Inc.
Certificate of Authorization #1841

Jones Edmunds & Associates, Inc.
324 South Hyde Park Avenue, Suite 250

Mailing Address

Tampa, Florida 33606
City, State, Zip Code

jtimmons@jonesedmunds.com
E-Mail address (if available)

(813) 258-0703
Telephone Number

Date: 1/26/10

LEACHATE MANAGEMENT PLAN UPDATES

S LOCATION N/A N/C

PART F CONTINUED

- | | | | | |
|-------|-------|----------|-------|---|
| _____ | _____ | <u>X</u> | _____ | f. Special drainage devices if necessary; |
| _____ | _____ | <u>X</u> | _____ | g. Fencing; |
| _____ | _____ | <u>X</u> | _____ | h. Equipment facilities. |
| | | | | 5. A report on the landfill describing the following;
(62-701.330(3)(e), FAC) |
| _____ | _____ | <u>X</u> | _____ | a. The current and projected population and area to
be served by the proposed site; |
| _____ | _____ | <u>X</u> | _____ | b. The anticipated type, annual quantity, and
source of solid waste, expressed in tons; |
| _____ | _____ | <u>X</u> | _____ | c. The anticipated facility life; |
| _____ | _____ | <u>X</u> | _____ | d. The source and type of cover material used for
the landfill. |
| _____ | _____ | <u>X</u> | _____ | 6. Provide evidence that an approved laboratory shall
conduct water quality monitoring for the facility in
accordance with Chapter 62-160, FAC;
(62-701.330(3)(h), FAC) |
| _____ | _____ | <u>X</u> | _____ | 7. Provide a statement of how the applicant will
demonstrate financial responsibility for the closing
and long-term care of the landfill;
(62-701.330(3)(i), FAC) |

G. GENERAL CRITERIA FOR LANDFILLS (62-701.340, FAC)

- | | | | | |
|-------|-------|----------|-------|---|
| _____ | _____ | <u>X</u> | _____ | 1. Describe (and show on a Federal Insurance
Administration flood map, if available) how the
landfill or solid waste disposal unit shall not be
located in the 100-year floodplain where it will
restrict the flow of the 100-year flood, reduce the
temporary water storage capacity of the floodplain
unless compensating storage is provided, or result in a
washout of solid waste; (62-701.340(4)(b), FAC) |
| _____ | _____ | <u>X</u> | _____ | 2. Describe how the minimum horizontal separation between
waste deposits in the landfill and the landfill
property boundary shall be 100 feet, measured from the
toe of the proposed final cover slope;
(62-701.340(4)(c), FAC) |
| _____ | _____ | <u>X</u> | _____ | 3. Describe what methods shall be taken to screen the
landfill from public view where such screening can
practically be provided; (62-701.340(4)(d), FAC) |

H. LANDFILL CONSTRUCTION REQUIREMENTS (62-701.400, FAC)

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
_____	_____	<u>X</u>	_____	1. Describe how the landfill shall be designed so that solid waste disposal units will be constructed and closed at planned intervals throughout the design period of the landfill; (62-701.400(2), FAC)
				2. Landfill liner requirements; (62-701.400(3), FAC)
				a. General construction requirements; (62-701.400(3)(a), FAC):
_____	_____	<u>X</u>	_____	(1) Provide test information and documentation to ensure the liner will be constructed of materials that have appropriate physical, chemical, and mechanical properties to prevent failure;
_____	_____	<u>X</u>	_____	(2) Document foundation is adequate to prevent liner failure;
_____	_____	<u>X</u>	_____	(3) Constructed so bottom liner will not be adversely impacted by fluctuations of the ground water;
_____	_____	<u>X</u>	_____	(4) Designed to resist hydrostatic uplift if bottom liner located below seasonal high ground water table;
_____	_____	<u>X</u>	_____	(5) Installed to cover all surrounding earth which could come into contact with the waste or leachate.
				b. Composite liners; (62-701.400(3)(b), FAC)
_____	_____	<u>X</u>	_____	(1) Upper geomembrane thickness and properties;
_____	_____	<u>X</u>	_____	(2) Design leachate head for primary LCRS including leachate recirculation if appropriate;
_____	_____	<u>X</u>	_____	(3) Design thickness in accordance with Table A and number of lifts planned for lower soil component.

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>
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PART H CONTINUED

c. Double liners; (62-701.400(3)(c), FAC)

- | | | | | |
|-------|-------|----------|-------|---|
| _____ | _____ | <u>X</u> | _____ | (1) Upper and lower geomembrane thicknesses and properties; |
| _____ | _____ | <u>X</u> | _____ | (2) Design leachate head for primary LCRS to limit the head to one foot above the liner; |
| _____ | _____ | <u>X</u> | _____ | (3) Lower geomembrane sub-base design; |
| _____ | _____ | <u>X</u> | _____ | (4) Leak detection and secondary leachate collection system minimum design criteria ($k > 10$ cm/sec, head on lower liner < 1 inch, head not to exceed thickness of drainage layer); |

d. Standards for geosynthetic components; (62-701.400(3)(d), FAC)

- | | | | | |
|-------|-------|----------|-------|--|
| _____ | _____ | <u>X</u> | _____ | (1) Field seam test methods to ensure all field seams are at least 90 percent of the yield strength for the lining material; |
| _____ | _____ | <u>X</u> | _____ | (2) Geomembranes to be used shall pass a continuous spark test by the manufacturer; |
| _____ | _____ | <u>X</u> | _____ | (3) Design of 24-inch-thick protective layer above upper geomembrane liner; |
| _____ | _____ | <u>X</u> | _____ | (4) Describe operational plans to protect the liner and leachate collection system when placing the first layer of waste above 24-inch-thick protective layer. |
| _____ | _____ | <u>X</u> | _____ | (5) HDPE geomembranes, if used, meet the specifications in GRI GM13; |
| _____ | _____ | <u>X</u> | _____ | (6) PVC geomembranes, if used, meet the specifications in PGI 1197; |
| _____ | _____ | <u>X</u> | _____ | (7) Interface shear strength testing results of the actual components which will be used in the liner system; |
| _____ | _____ | <u>X</u> | _____ | (8) Transmissivity testing results of geonets if they are used in the liner system; |
| _____ | _____ | <u>X</u> | _____ | (9) Hydraulic conductivity testing results of geosynthetic clay liners if they are used in the liner system; |

S LOCATION N/A N/C

PART H CONTINUED

e. Geosynthetic specification requirements;
(62-701.400(3)(e), FAC)

_____ _____ X _____

(1) Definition and qualifications of the designer, manufacturer, installer, QA consultant and laboratory, and QA program;

_____ _____ X _____

(2) Material specifications for geomembranes, geocomposites, geotextiles, geogrids, and geonets;

_____ _____ X _____

(3) Manufacturing and fabrication specifications including geomembrane raw material and roll QA, fabrication personnel qualifications, seaming equipment and procedures, overlaps, trial seams, destructive and nondestructive seam testing, seam testing location, frequency, procedure, sample size and geomembrane repairs;

_____ _____ X _____

(4) Geomembrane installation specifications including earthwork, conformance testing, geomembrane placement, installation personnel qualifications, field seaming and testing, overlapping and repairs, materials in contact with geomembrane and procedures for lining system acceptance;

_____ _____ X _____

(5) Geotextile and geogrid specifications including handling and placement, conformance testing, seams and overlaps, repair, and placement of soil materials and any overlying materials;

_____ _____ X _____

(6) Geonet and geocomposite specifications including handling and placement, conformance testing, stacking and joining, repair, and placement of soil materials and any overlying materials;

_____ _____ X _____

(7) Geosynthetic clay liner specifications including handling and placement, conformance testing, seams and overlaps, repair, and placement of soil material and any overlying materials;

f. Standards for soil components
(62-710.400(3)(f), FAC):

_____ _____ X _____

(1) Description of construction procedures including overexcavation and backfilling to preclude structural inconsistencies and procedures for placing and compacting soil component in layers;

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	PART H CONTINUED	
_____	_____	<u>X</u>	_____	(2)	Demonstration of compatibility of the soil component with actual or simulated leachate in accordance with EPA Test Method 9100 or an equivalent test method;
_____	_____	<u>X</u>	_____	(3)	Procedures for testing in-situ soils to demonstrate they meet the specifications for soil liners;
_____	_____			(4)	Specifications for soil component of liner including at a minimum:
_____	_____	<u>X</u>	_____	(a)	Allowable particle size distribution, Atterberg limits, shrinkage limit;
_____	_____	<u>X</u>	_____	(b)	Placement moisture and dry density criteria;
_____	_____	<u>X</u>	_____	(c)	Maximum laboratory-determined saturated hydraulic conductivity using simulated leachate;
_____	_____	<u>X</u>	_____	(d)	Minimum thickness of soil liner;
_____	_____	<u>X</u>	_____	(e)	Lift thickness;
_____	_____	<u>X</u>	_____	(f)	Surface preparation (scarification);
_____	_____	<u>X</u>	_____	(g)	Type and percentage of clay mineral within the soil component;
_____	_____	<u>X</u>	_____	(5)	Procedures for constructing and using a field test section to document the desired saturated hydraulic conductivity and thickness can be achieved in the field.
3. Leachate collection and removal system (LCRS); (62-701.400(4), FAC)					
a. The primary and secondary LCRS requirements; (62-701.400(4)(a), FAC)					
_____	_____	<u>X</u>	_____	(1)	Constructed of materials chemically resistant to the waste and leachate;
_____	_____	<u>X</u>	_____	(2)	Have sufficient mechanical properties to prevent collapse under pressure;
_____	_____	<u>X</u>	_____	(3)	Have granular material or synthetic geotextile to prevent clogging;
_____	_____	<u>X</u>	_____	(4)	Have method for testing and cleaning clogged pipes or contingent designs for rerouting leachate around failed areas;

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	<u>PART H CONTINUED</u>
				5. Leachate storage tanks and leachate surface impoundments; (62-701.400(6), FAC)
				a. Surface impoundment requirements; (62-701.400(6)(b), FAC)
_____	_____	<u>X</u>	_____	(1) Documentation that the design of the bottom liner will not be adversely impacted by fluctuations of the ground water;
_____	_____	<u>X</u>	_____	(2) Designed in segments to allow for inspection and repair as needed without interruption of service;
_____	_____	<u>X</u>	_____	(3) General design requirements;
_____	_____	<u>X</u>	_____	(a) Double liner system consisting of an upper and lower 60-mil minimum thickness geomembrane;
_____	_____	<u>X</u>	_____	(b) Leak detection and collection system with hydraulic conductivity ≥ 1 cm/sec;
_____	_____	<u>X</u>	_____	(c) Lower geomembrane placed on subbase ≥ 6 inches thick with $k \leq 1 \times 10^{-5}$ cm/sec or on an approved geosynthetic clay liner with $k \leq 1 \times 10^{-7}$ cm/sec;
_____	_____	<u>X</u>	_____	(d) Design calculation to predict potential leakage through the upper liner;
_____	_____	<u>X</u>	_____	(e) Daily inspection requirements and notification and corrective action requirements if leakage rates exceed that predicted by design calculations;
_____	_____	<u>X</u>	_____	(4) Description of procedures to prevent uplift, if applicable;
_____	_____	<u>X</u>	_____	(5) Design calculations to demonstrate minimum two feet of freeboard will be maintained;
_____	_____	<u>X</u>	_____	(6) Procedures for controlling disease vectors and off-site odors.

S LOCATION N/A N/C

PART H CONTINUED

b. Above-ground leachate storage tanks;
(62-701.400(6)(c), FAC)

_____ _____ X _____

(1) Describe tank materials of construction and ensure foundation is sufficient to support tank;

_____ _____ X _____

(2) Describe procedures for cathodic protection if needed for the tank;

_____ _____ X _____

(3) Describe exterior painting and interior lining of the tank to protect it from the weather and the leachate stored;

_____ _____ X _____

(4) Describe secondary containment design to ensure adequate capacity will be provided and compatibility of materials of construction;

X Enclosed LMP _____ _____

(5) Describe design to remove and dispose of stormwater from the secondary containment system;

X Enclosed LMP _____ _____

(6) Describe an overfill prevention system such as level sensors, gauges, alarms and shutoff controls to prevent overfilling;

(7) Inspections, corrective action and reporting requirements;

X Enclosed LMP _____ _____

(a) Overfill prevention system weekly;

X Enclosed LMP _____ _____

(b) Exposed tank exteriors weekly;

X Enclosed LMP _____ _____

(c) Tank interiors when tank is drained or at least every three years;

X Enclosed LMP _____ _____

(d) Procedures for immediate corrective action if failures detected;

X Enclosed LMP _____ _____

(e) Inspection reports available for department review.

c. Underground leachate storage tanks;
(62-701.400(6)(d), FAC)

_____ _____ X _____

(1) Describe materials of construction;

_____ _____ X _____

(2) A double-walled tank design system to be used with the following requirements;

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>
_____	_____	<u>X</u>	_____
_____	_____	<u>X</u>	_____
_____	_____	<u>X</u>	_____
_____	_____	<u>X</u>	_____
_____	_____	<u>X</u>	_____
_____	_____	<u>X</u>	_____
_____	_____	<u>X</u>	_____
_____	_____	<u>X</u>	_____
_____	_____	<u>X</u>	_____
_____	_____	<u>X</u>	_____
_____	_____	<u>X</u>	_____
_____	_____	<u>X</u>	_____
_____	_____	<u>X</u>	_____

PART H CONTINUED

- (a) Interstitial space monitoring at least weekly;
- (b) Corrosion protection provided for primary tank interior and external surface of outer shell;
- (c) Interior tank coatings compatible with stored leachate;
- (d) Cathodic protection inspected weekly and repaired as needed;
- (3) Describe an overfill prevention system such as level sensors, gauges, alarms and shutoff controls to prevent overfilling and provide for weekly inspections;
- (4) Inspection reports available for department review.
- d. Schedule provided for routine maintenance of LCRS; (62-701.400(6) (e), FAC)
- 6. Liner systems construction quality assurance (CQA); (62-701.400(7), FAC)
 - a. Provide CQA Plan including:
 - (1) Specifications and construction requirements for liner system;
 - (2) Detailed description of quality control testing procedures and frequencies;
 - (3) Identification of supervising professional engineer;
 - (4) Identify responsibility and authority of all appropriate organizations and key personnel involved in the construction project;
 - (5) State qualifications of CQA professional engineer and support personnel;
 - (6) Description of CQA reporting forms and documents;

S LOCATION N/A N/C

PART H CONTINUED

_____ X _____

b. An independent laboratory experienced in the testing of geosynthetics to perform required testing;

7. Soil Liner CQA (62-701.400(8)FAC)

_____ X _____

a. Documentation that an adequate borrow source has been located with test results or description of the field exploration and laboratory testing program to define a suitable borrow source;

_____ X _____

b. Description of field test section construction and test methods to be implemented prior to liner installation;

_____ X _____

c. Description of field test methods including rejection criteria and corrective measures to insure proper liner installation.

8. Surface water management systems; (62-701.400(9), FAC)

_____ X _____

a. Provide a copy of a Department permit for stormwater control or documentation that no such permit is required;

_____ X _____

b. Design of surface water management system to isolate surface water from waste filled areas and to control stormwater run-off;

_____ X _____

c. Details of stormwater control design including retention ponds, detention ponds, and drainage ways;

9. Gas control systems; (62-701.400(10), FAC)

_____ X _____

a. Provide documentation that if the landfill is receiving degradable wastes, it will have a gas control system complying with the requirements of Rule 62-701.530, FAC;

_____ X _____

10. For landfills designed in ground water, provide documentation that the landfill will provide a degree of protection equivalent to landfills designed with bottom liners not in contact with ground water; (62-701.400(11), FAC)

I. HYDROGEOLOGICAL INVESTIGATION REQUIREMENTS (62-701.410(1), FAC)

<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
			1. Submit a hydrogeological investigation and site report including at least the following information:
	<u>X</u>		a. Regional and site specific geology and hydrogeology;
	<u>X</u>		b. Direction and rate of ground water and surface water flow including seasonal variations;
	<u>X</u>		c. Background quality of ground water and surface water;
	<u>X</u>		d. Any on-site hydraulic connections between aquifers;
	<u>X</u>		e. Site stratigraphy and aquifer characteristics for confining layers, semi-confining layers, and all aquifers below the landfill site that may be affected by the landfill;
	<u>X</u>		f. Description of topography, soil types, and surface water drainage systems;
	<u>X</u>		g. Inventory of all public and private water wells within a one-mile radius of the landfill including, where available, well top of casing and bottom elevations, name of owner, age and usage of each well, stratigraphic unit screened, well construction technique and static water level;
	<u>X</u>		h. Identify and locate any existing contaminated areas on the site;
	<u>X</u>		i. Include a map showing the locations of all potable wells within 500 feet, and all community water supply wells within 1000 feet, of the waste storage and disposal areas;
	<u>X</u>		2. Report signed, sealed, and dated by PE or PG.

J. GEOTECHNICAL INVESTIGATION REQUIREMENTS (62-701.410(2), FAC)

<u>2</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
				1. Submit a geotechnical site investigation report defining the engineering properties of the site including at least the following:
_____	_____	<u>X</u>	_____	a. Description of subsurface conditions including soil stratigraphy and ground water table conditions;
_____	_____	<u>X</u>	_____	b. Investigate for the presence of muck, previously filled areas, soft ground, lineaments and sink holes;
_____	_____	<u>X</u>	_____	c. Estimates of average and maximum high water table across the site;
_____	_____	<u>X</u>	_____	d. Foundation analysis including:
_____	_____	<u>X</u>	_____	(1) Foundation bearing capacity analysis;
_____	_____	<u>X</u>	_____	(2) Total and differential subgrade settlement analysis;
_____	_____	<u>X</u>	_____	(3) Slope stability analysis;
_____	_____	<u>X</u>	_____	e. Description of methods used in the investigation and includes soil boring logs, laboratory results, analytical calculations, cross sections, interpretations and conclusions;
_____	_____	<u>X</u>	_____	f. An evaluation of fault areas, seismic impact zones, and unstable areas as described in 40 CFR 258.13, 40 CFR 258.14 and 40 CFR 258.15.
_____	_____	<u>X</u>	_____	2. Report signed, sealed, and dated by PE or PG.

K. VERTICAL EXPANSION OF LANDFILLS (62-701.430, FAC)

<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
<u> </u>	<u> X </u>	<u> </u>	1. Describe how the vertical expansion shall not cause or contribute to leachate leakage from the existing landfill or adversely affect the closure design of the existing landfill;
<u> </u>	<u> X </u>	<u> </u>	2. Describe how the vertical expansion over unlined landfills will meet the requirements of Rule 62-701.400, FAC with the exceptions of Rule 62-701.430(1)(c), FAC;
<u> </u>	<u> X </u>	<u> </u>	3. Provide foundation and settlement analysis for the vertical expansion;
<u> </u>	<u> X </u>	<u> </u>	4. Provide total settlement calculations demonstrating that the final elevations of the lining system, that gravity drainage, and that no other component of the design will be adversely affected;
<u> </u>	<u> X </u>	<u> </u>	5. Minimum stability safety factor of 1.5 for the lining system component interface stability and deep stability;
<u> </u>	<u> X </u>	<u> </u>	6. Provide documentation to show the surface water management system will not be adversely affected by the vertical expansion;
<u> </u>	<u> X </u>	<u> </u>	7. Provide gas control designs to prevent accumulation of gas under the new liner for the vertical expansion.

L. LANDFILL OPERATION REQUIREMENTS (62-701.500, FAC)

<u> </u>	<u> </u>	<u> X </u>	<u> </u>	1.	Provide documentation that landfill will have at least one trained operator during operation and at least one trained spotter at each working face; (62-701.500(1), FAC)
<u> </u>	<u> </u>	<u> </u>	<u> </u>	2.	Provide a landfill operation plan including procedures for: (62-701.500(2), FAC)
<u> </u>	<u> </u>	<u> X </u>	<u> </u>	a.	Designating responsible operating and maintenance personnel;
<u> </u>	<u> </u>	<u> X </u>	<u> </u>	b.	Contingency operations for emergencies;
<u> </u>	<u> </u>	<u> X </u>	<u> </u>	c.	Controlling types of waste received at the landfill;
<u> </u>	<u> </u>	<u> X </u>	<u> </u>	d.	Weighing incoming waste;
<u> </u>	<u> </u>	<u> X </u>	<u> </u>	e.	Vehicle traffic control and unloading;
<u> </u>	<u> </u>	<u> X </u>	<u> </u>	f.	Method and sequence of filling waste;
<u> </u>	<u> </u>	<u> X </u>	<u> X </u>	g.	Waste compaction and application of cover;
<u> X </u>	<u>Enclosed LMP</u>	<u> </u>	<u> </u>	h.	Operations of gas, leachate, and stormwater controls;
<u> </u>	<u> </u>	<u> X </u>	<u> </u>	i.	Water quality monitoring.
<u> X </u>	<u>Enclosed LMP</u>	<u> </u>	<u> </u>	j.	Maintaining and cleaning the leachate collection system;
<u> </u>	<u> </u>	<u> X </u>	<u> </u>	3.	Provide a description of the landfill operation record to be used at the landfill; details as to location of where various operational records will be kept (i.e. FDEP permit, engineering drawings, water quality records, etc.) (62-701.500(3), FAC)
<u> </u>	<u> </u>	<u> X </u>	<u> </u>	4.	Describe the waste records that will be compiled monthly and provided to the Department quarterly; (62-701.500(4), FAC)
<u> </u>	<u> </u>	<u> X </u>	<u> </u>	5.	Describe methods of access control; (62-701.500(5), FAC)
<u> </u>	<u> </u>	<u> X </u>	<u> </u>	6.	Describe load checking program to be implemented at the landfill to discourage disposal of unauthorized wastes at the landfill; (62-701.500(6), FAC)
<u> </u>	<u> </u>	<u> </u>	<u> </u>	7.	Describe procedures for spreading and compacting waste at the landfill that include: (62-701.500(7), FAC)
<u> </u>	<u> </u>	<u> X </u>	<u> </u>	a.	Waste layer thickness and compaction frequencies;

S LOCATION N/A N/C

PART I CONTINUED

_____	_____	<u>X</u>	_____	b.	Special considerations for first layer of waste placed above liner and leachate collection system;
_____	_____	<u>X</u>	_____	c.	Slopes of cell working face and side grades above land surface, planned lift depths during operation;
_____	_____	<u>X</u>	_____	d.	Maximum width of working face;
_____	_____			e.	Description of type of initial cover to be used at the facility that controls:
_____	_____	<u>X</u>	_____	(1)	Disease vector breeding/animal attraction
_____	_____	<u>X</u>	_____	(2)	Fires
_____	_____	<u>X</u>	_____	(3)	Odors
_____	_____	<u>X</u>	_____	(4)	Blowing litter
_____	_____	<u>X</u>	_____	(5)	Moisture infiltration
_____	_____	<u>X</u>	_____	f.	Procedures for applying initial cover including minimum cover frequencies;
_____	_____	<u>X</u>	_____	g.	Procedures for applying intermediate cover;
_____	_____	<u>X</u>	_____	h.	Time frames for applying final cover;
_____	_____	<u>X</u>	_____	i.	Procedures for controlling scavenging and salvaging.
_____	_____	<u>X</u>	_____	j.	Description of litter policing methods;
_____	_____	<u>X</u>	_____	k.	Erosion control procedures.
				8.	Describe operational procedures for leachate management including; (62-701.500(8), FAC)
<u>X</u>	<u>Enclosed LMP</u>	_____	_____	a.	Leachate level monitoring, sampling, analysis, and data results submitted to the Department;
<u>X</u>	<u>Enclosed LMP</u>	_____	_____	b.	Operation and maintenance of leachate collection and removal system, and treatment as required;
<u>X</u>	<u>Enclosed LMP</u>	_____	_____	c.	Procedures for managing leachate if it becomes regulated as a hazardous waste;
<u>X</u>	<u>Enclosed LMP</u>	_____	_____	d.	Agreements for off-site discharge and treatment of leachate;
<u>X</u>	<u>Enclosed LMP</u>	_____	_____	e.	Contingency plan for managing leachate during emergencies or equipment problems;

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	PART L CONTINUED	
<u>X</u>	<u>Enclosed LMP</u>	<u> </u>	<u> </u>	f.	Procedures for recording quantities of leachate generated in gal/day and including this in the operating record;
<u>X</u>	<u>Enclosed LMP</u>	<u> </u>	<u> </u>	g.	Procedures for comparing precipitation experienced at the landfill with leachate generation rates and including this information in the operating record;
<u>X</u>	<u>Enclosed LMP</u>	<u> </u>	<u> </u>	h.	Procedures for water pressure cleaning or video inspecting leachate collection systems.
<u> </u>	<u> </u>	<u>X</u>	<u> </u>	9.	Describe how the landfill receiving degradable wastes shall implement a gas management system meeting the requirements of Rule 62-701.530, FAC; (62-701.500(9), FAC)
<u> </u>	<u> </u>	<u>X</u>	<u> </u>	10.	Describe procedures for operating and maintaining the landfill stormwater management system to comply with the requirements of Rule 62-701.400(9); (62-701.500(10), FAC)
<u> </u>	<u> </u>	<u> </u>	<u> </u>	11.	Equipment and operation feature requirements; (62-701.500(11), FAC)
<u> </u>	<u> </u>	<u>X</u>	<u> </u>	a.	Sufficient equipment for excavating, spreading, compacting and covering waste;
<u> </u>	<u> </u>	<u>X</u>	<u> </u>	b.	Reserve equipment or arrangements to obtain additional equipment within 24 hours of breakdown;
<u> </u>	<u> </u>	<u>X</u>	<u> </u>	c.	Communications equipment;
<u> </u>	<u> </u>	<u>X</u>	<u> </u>	d.	Dust control methods;
<u> </u>	<u> </u>	<u>X</u>	<u> </u>	e.	Fire protection capabilities and procedures for notifying local fire department authorities in emergencies;
<u> </u>	<u> </u>	<u>X</u>	<u> </u>	f.	Litter control devices;
<u> </u>	<u> </u>	<u>X</u>	<u> </u>	g.	Signs indicating operating authority, traffic flow, hours of operation, disposal restrictions.
<u> </u>	<u> </u>	<u>X</u>	<u> </u>	12.	Provide a description of all-weather access road, inside perimeter road and other roads necessary for access which shall be provided at the landfill; (62-701.500(12), FAC)
<u> </u>	<u> </u>	<u> </u>	<u> </u>	13.	Additional record keeping and reporting requirements; (62-701.500(13), FAC)

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>
_____	_____	<u>X</u>	_____
_____	_____	<u>X</u>	_____
_____	_____	<u>X</u>	_____
_____	_____	<u>X</u>	_____

PART L CONTINUED

- a. Records used for developing permit applications and supplemental information maintained for the design period of the landfill;
- b. Monitoring information, calibration, and maintenance records, copies of reports required by permit maintained for at least 10 years;
- c. Maintain annual estimates of the remaining life of constructed landfills and of other permitted areas not yet constructed and submit this estimate annually to the Department;
- d. Procedures for archiving and retrieving records which are more than five year old.

M. WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS (62-701.510, FAC)

<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
<u> </u>	<u> X </u>	<u> </u>	1. Water quality and leachate monitoring plan shall be submitted describing the proposed ground water, surface water and leachate monitoring systems and shall meet at least the following requirements;
<u> </u>	<u> X </u>	<u> </u>	a. Based on the information obtained in the hydrogeological investigation and signed, dated and sealed by the PG or PE who prepared it; (62-701.510(2)(a), FAC)
<u> </u>	<u> X </u>	<u> </u>	b. All sampling and analysis preformed in accordance with Chapter 62-160, FAC; (62-701.510(2)(b), FAC)
<u> </u>	<u> X </u>	<u> </u>	c. Ground water monitoring requirements; (62-701.510(3), FAC)
<u> </u>	<u> X </u>	<u> </u>	(1) Detection wells located downgradient from and within 50 feet of disposal units;
<u> </u>	<u> X </u>	<u> </u>	(2) Downgradient compliance wells as required;
<u> </u>	<u> X </u>	<u> </u>	(3) Background wells screened in all aquifers below the landfill that may be affected by the landfill;
<u> </u>	<u> X </u>	<u> </u>	(4) Location information for each monitoring well;
<u> </u>	<u> X </u>	<u> </u>	(5) Well spacing no greater than 500 feet apart for downgradient wells and no greater than 1500 feet apart for upgradient wells unless site specific conditions justify alternate well spacings;
<u> </u>	<u> X </u>	<u> </u>	(6) Well screen locations properly selected;
<u> </u>	<u> X </u>	<u> </u>	(7) Procedures for properly abandoning monitoring wells;
<u> </u>	<u> X </u>	<u> </u>	(8) Detailed description of detection sensors if proposed.

Madden, Melissa

From: Madden, Melissa
Sent: Thursday, January 07, 2010 9:21 AM
To: 'Ruiz, Larry'
Cc: Pelz, Susan; Morgan, Steve; Pelley, Cindy; Watson, Stephanie M.; 'jtimmons@jonesedmonds.com'
Subject: Leachate Management Plan Updates

Larry,

The Department received 3 copies of a submittal titled *Leachate Management Plan Updates*, dated December 30, 2009 (received January 4, 2009). Based on the information included within the submittal, the proposed revisions require a modification of Permit 35435-014-SO/01 to incorporate these changes. In order to process the December 30, 2009 submittal as a modification, an application fee of \$250, a signed and sealed application form and revised cover letter should be submitted. If you have any questions, feel free to contact me.

Thanks,
Melissa

Melissa Madden, Environmental Specialist II, Solid Waste Section

Florida Department of Environmental Protection - Southwest District
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
melissa.madden@dep.state.fl.us
813/632.7600 Ext. 374
813/632.7664 Fax

From: Ruiz, Larry [mailto:RuizLE@HillsboroughCounty.ORG]
Sent: Friday, November 20, 2009 1:18 PM
To: Watson, Stephanie M.
Cc: Pelz, Susan; Morgan, Steve; Madden, Melissa; Pelley, Cindy
Subject: RE: In-Kind As-Built Surveys

Hello, I think there was a misunderstanding. What we wanted to do was to just submit the as-built and operation procedures "now" as part of the in-kind. Then for the permit modification to be submitted by the end of year, submit an updated LMP. Meaning, we are not ready "now" with the updates to the LMP. Due to the in-kind project, only one figure of the LMP was revised per Melissa's request (attached), nothing else is affected.

The reason we are updating the LMP is to incorporate other document improvements unrelated to the in-kind project (e.g., revised reporting forms). That was the reason for our request. To summarize, we would like to:

1. Submit "now" the as-built for PS-B and PS-6 with operating procedures to close the in-kind project as you originally requested.

2. Complete revisions to the LMP and submit to DEP for review before the end of the year.

Please advise. Thanks.

From: Watson, Stephanie M. [mailto:Stephanie.M.Watson@dep.state.fl.us]
Sent: Friday, November 20, 2009 12:55 PM
To: Ruiz, Larry

Cc: Pelz, Susan; Morgan, Steve; Mac...i, Melissa; Pelley, Cindy
Subject: RE: In-Kind As-Built Surveys

Larry,

I discussed with Susan your proposal to submit the revisions to SELF's leachate management plan regarding Pump Stations A & B and TPS-6 now to resolve the County's in-kind project, and your proposal to submit these changes officially in a revised Leachate Management Plan, which is anticipated to be included the facility's next permit modification (for operation of the facility's gas system).

Susan did not object to your request, and asked that you submit the request in writing, so that the Department has a record for its permitting file.

Please let me know if you have any questions about this email.

Have a good weekend,

Stephanie

Stephanie Watson

Florida Department of Environmental Protection, Southwest District, Solid Waste Section
13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926
Telephone: 813-632-7600, ext. 451; Fax: 813-632-7664; E-mail: stephanie.m.watson@dep.state.fl.us

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: Pelley, Cindy [mailto:PelleyCA@HillsboroughCounty.ORG]
Sent: Friday, November 20, 2009 9:47 AM
To: Watson, Stephanie M.
Cc: Ruiz, Larry; Berry, Patricia; Pelz, Susan
Subject: In-Kind As-Built Surveys

Stephanie,

I just received the hard copies of the "as-built" surveys for Pump Stations A&B and TPS-6. Attached are copies of those surveys and the sump station operation procedures for Pump Stations A&B as well as TPS-6. I'm placing a hard copy of the surveys in today's mail. Please let me know if you need any further information.

Thanks,
Cindy

Cindy A. Pelley
Environmental Specialist II
Landfill Services Section
Solid Waste Management Department
County Center, 24th Floor
Phone: (813) 276-2933

Cell: (813) 919-1156
Fax: (813) 276-2965
E-mail: pelleyca@hillsboroughcounty.org

From: Ruiz, Larry
Sent: Thursday, November 19, 2009 8:54 AM
To: Pelley, Cindy
Subject: FW: Pump Station

Hello, attached find the final surveys and the operating procedures for pump stations 6, A, and B. The SWMD is updating the LMP due to other items not related to in-kind. At this time, we expect to submit the revised LMP by the end of the year. Thanks.

THINK AT THE SINK!
During this ongoing drought, every drop of water counts.
Learn how you can cut water use at <http://www.hillsboroughcounty.org/water/conserve>

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