



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

Mimi Drew
Secretary

CERTIFIED MAIL #7008 0150 0003 4893 8831
RETURN RECEIPT REQUESTED

January 5, 2011

NOTICE OF PERMIT

Mr. Daniel Gray, Utilities Department Director
Manatee County Government
4410 66th Street West
Bradenton, Florida 34210

Re: Lena Road Class I Landfill Operation Permit
Permit No.: 39884-018-SO/01, Manatee County
WACS ID No: SWD-41-44795

Dear Mr. Gray:

Enclosed is permit number 39884-018-SO/01, issued pursuant to
Section(s) 403.087(1), Florida Statutes.

A person whose substantial interests are affected by this 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., MS#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.

The petition shall contain the following information;

- (a) 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.

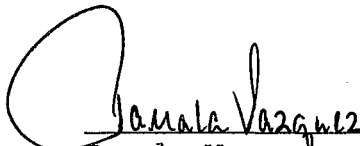
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard 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.

This 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 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., MS#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.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Pamala Vazquez
Program Administrator
Southwest District

Manatee County
Mr. Daniel Gray, Utility Operations Director

Lena Road Class I Facility
Permit No. 39884-018-SO/01

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this **NOTICE OF PERMIT** was mailed or transmitted electronically to the addressee and the listed persons before the close of business on

January 5, 2011
(date 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.

Annabrantley 1-5-2011
Clerk Date

DAG/sgm

Enclosure

cc: Manatee County Notification List
Joseph L. Miller, P.E., PBSJ, jlmiller@pbsj.com
Frank Hornbrook, FDEP, Tallahassee (e-mail)
Richard Tedder, P.E., FDEP, Tallahassee (e-mail)
Ronni Moore, FDEP OGC (e-mail)
John Morris, P.G., FDEP Tampa (e-mail)
Susan Pelz, P.E., FDEP Tampa (e-mail)



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PERMITTEE

Manatee County
Daniel T. Gray
Utility Operations Director
4410 66th Street West
Bradenton, FL 34210

PERMIT/CERTIFICATION

WACS ID No: SWD-41-44795
Permit No: 39884-018-SO/01
Date of Issue: **01/05/2011**
Expiration Date: **01/05/2016**
County: Manatee
Lat/Long: 27°28'10"N
82°26'35"W
Sec/Town/Rge: 1&12/T35S/R18E
31/T34S/R19E
6&7/T35S/R19E

Project: Lena Road Class I Landfill

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-302, 62-330, 62-520, 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, monitor and maintain a landfill and related facilities (approximately 316 acres), referred to as the Lena Road Class I Landfill, subject to the specific and general conditions attached, for disposal of solid waste, located 3333 Lena Road, Bradenton, Manatee County, Florida. The specific conditions attached are for the operation, monitoring and maintenance of:

1. Lena Road Class I Landfill Facility and related appurtenances

Replaces Permit No.: 39884-010-SO (as modified)

General Information:	
Disposal acres	316 acres
Bottom liner design	Stages I & III - Natural Soils (approx. +29 ft. NGVD, w/perimeter slurry wall Stage II - Natural Soils (approx. +24-29 ft. NGVD, w/perimeter slurry wall
LCS design	Stages I & III - Perimeter underdrains & lift stations, slurry wall keyed into the underlying natural clay unit Stage II - Lateral 8" perforated HDPE collection pipes and perimeter underdrains & lift stations, slurry wall keyed into the underlying natural clay unit
LDS design	none
Final elevation	Stage I - approx. +130.9 ft NGVD Stage II - approx. +118 ft NGVD Stage III - +72 ft NGVD
Slopes	4H:1V, top slope 1%, intermediate cover 2%

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 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

GENERAL CONDITIONS:

14. The permittee shall comply with the following:

(a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

(b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

(c) Records of monitoring information shall include:

1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

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. **Landfill Designation.** This site shall be classified as a Class I landfill and shall be operated in accordance with all applicable requirements of Chapters 62-4, 62-302, 62-330, 62-520, 62-522, 62-550, 62-701 and 62-703, Florida Administrative Code (F.A.C.) and all applicable requirements of Department rules.

2. **Permit Application Documentation.** This permit is valid for operation, monitoring and maintenance of the Class I landfill and related systems (including but not limited to: household hazardous waste collection and storage facility, community drop off center, yard waste processing area, gas management system, stormwater/leachate management system, scrap metal and white goods management, etc.) in accordance with Department rules and the reports, plans and other information prepared by PBS&J (unless otherwise specified) as follows:

a. Application and Engineering Report for Renewal of Landfill Operation Permit for Lena Road Landfill, (one 3-ring binder, six spiral bound documents, three plan sets, and one 3-hole punched bound report w/DVD) dated November 11, 2009 (received November 12, 2009), as revised, replaced or amended (information inserted into original*) received February 23, 2010, May 18, 2010, October 7, 2010), November 15, 2010, and January 3, 2011. This information includes, but is not limited to:

- 1) Operations Plan (Op. Plan), [Part K], dated May 11, 2010;
- 2) "Report of Geotechnical Engineering Services, Lena Road Landfill Stage 2...", prepared by Andreyev Engineering, dated September 30, 2010;
- 3) Household Hazardous Waste Collection and Storage Facility Operation Plan (HHW Plan), [Op. Plan Att. K-2], revised May 10, 2010;
- 4) Water Quality and Leachate Monitoring Requirements, [Part L], dated October 1, 2010, received October 7, 2010, November 15, 2010, and January 3, 2011;
- 5) Gas Management System Requirements, [Part N];
- 6) Landfill Closure Requirements, [Part O];
- 7) Long Term Care Requirements, [Part Q];
- 8) Plan set titled, Permit Renewal Drawings for Manatee County Lena Road Class I Landfill Fill Sequence Plan From 2009 to 2015, dated April 2010 (received May 18, 2010) including revised Sheet C-11 and C-12 received October 7, 2010 (revised sheets inserted into original*).

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 changes to the operations at the facility may 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.

* see OCULUS for un-collated submittals

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

(Specific Condition #A.3., cont'd)

- b. This permit authorizes the **operation** of Stages I and III of the Class I disposal facility and related appurtenances, and the Stage I landfill gas management system.
 - c. This permit does not authorize the **operation** of Filling Sequence 5 in the Stage II portion of the Class I landfill until the provisions of Specific Condition #C.1.b. have been completed and approved by the Department.
4. **Permit Renewal.** On or before **July 1, 2015** the permittee shall notify the Department in writing or electronically of its intent to apply for renewal of this permit and of the anticipated date of submittal of the permit renewal application. No later than **November 1, 2015**, 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 62-4.090, F.A.C. and Rule 62-701.320(10)(b), F.A.C. In the event that the regulations governing this operation are revised, the permit renewal shall include modification of those specific operation conditions which are affected by the revision of regulations to incorporate those revisions in accordance with Specific Condition A.8. 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.
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.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

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

a. This permit **does not** authorize the construction of the final cover system for any portion of the landfill. Construction of the final cover and related systems shall require a separate permit or major modification of this permit in accordance with Specific Condition #A.3 above.

b. Stage II.

1) This permit authorizes construction (excavation) of the portion of the Stage II disposal area as shown on Sheet C-9 of the Fill Sequence Plans [ref. SC#A.2.a.(8)].

2) In the event that the slurry wall, perimeter underdrain, or lateral leachate collection pipes in Stage II are impacted during construction, the Department shall be notified and corrective actions shall be detailed in accordance with Specific Condition #C.6.b. of this permit.

3) Unsatisfactory, defective or non-conforming work shall be reported to the Engineer and shall be corrected, or the reasons for not correcting the work shall be recorded and maintained onsite for reference and inspections. Documentation of the corrections or reasons for not correcting the work shall be submitted with the Record Documents required by Specific Conditions #B.1 and #B.2.

4) Construction activities such as QA/QC testing of the soil materials, surveying, etc. shall not be carried out in non-daylight hours without prior Department approval. If these activities will be conducted during nighttime hours, the Department shall be notified at least 1 week in advance to allow for Department observation. This notification shall include a description of the methods which will be used to provide adequate illumination to ensure that the quality of the construction is not compromised.

5) Soils and other materials excavated from inside the slurry wall shall not be stockpiled or stored outside the slurry wall, or in areas that drain outside the slurry wall.

SPECIFIC CONDITIONS: PART B - Construction Requirements

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. At the completion of construction, information listed below shall be provided to the Department as part of the Certification of Construction Completion.

a. **Within sixty (60) days** after any specified construction (e.g., excavation of the remaining portion of Stage III) has been completed, the following activities shall be completed and submitted by the permittee. This information shall be approved by the Department prior to operation in this area:

- 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.
- 5) In the event that the slurry wall was impacted by the construction activities, documentation demonstrating that the integrity of the slurry wall was not adversely affected shall be submitted with the Certification of Construction Completion.

3. **Record Drawings/Documents.**

a. The Record Drawings/Documents shall include, but not be limited to, the following information:

- 1) As-built elevations for the base grading excavation of the portion of the Stage II disposal area as shown on Sheet C-9 of the Fill Sequence Plans [ref. SC#A.2.a.(8)].
- 2) Daily construction reports (CQA and/or general contractor);
- 3) Copies of photographs documenting all stages of the construction project;
- 4) Documentation that demonstrates that the lateral solid HDPE leachate transmission pipe between manholes MH-E & MH-E1; the lateral perforated leachate collection system piping between MH-F & MH-F1 and MH-G & MH-G1; and the perimeter underdrain perforated leachate collection system piping between MH-E and MH-E1, has been pressure cleaned and video inspected. This documentation shall also detail all deficiencies discovered and corrective actions taken.

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 Fill Sequence Plans [ref.SC#A.2.a(8)]; the Operations Plan [ref.SC#A.2.a(1)]; the Household Hazardous Waste Collection and Storage Facility Operation Plan [ref.SC#A.2.a(3)]; and any other applicable requirements.

1) Operation of the Waste Tire Collection Center shall be in accordance with Chapters 62-701 and 62-711, F.A.C., and **Permit #126654-003-WT/02** (including modifications, if any), or its successors.

b. This permit authorizes disposal operations in Stage III and western portion of Stage I (i.e. Sequences 1-4) and in the portion of Stage II as depicted on Sheet C-10 of the Fill Sequence Plans (i.e. Sequence 5).

c. This permit does not authorize the operation in Stage II 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.;

2) Construction details for the proposed detection wells GW-18 through GW-28 as required by Specific Conditions #E.3., #E.5.b., and #E.5.d.; the results of the "initial sampling event" conducted at constructed wells for the parameters listed in Specific Condition #E.4.b., to meet the reporting requirements of Specific Condition #E.10.a.; construction details for the proposed piezometers PZ-18 to PZ-28 as required by Specific Conditions #E.10., #E.5.b., and #E.5.d.

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

e. Ponded Water/Leachate. All surface water at Lena Road Landfill within the area surrounded by the slurry wall is considered as "stormwater/leachate." In the event of stormwater control problems which allow prolonged (greater than 72 hours) contact of ponded water with waste, the disposal of waste in the affected area shall cease until the leachate has been collected and appropriate drainage has been restored.

f. 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.

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

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

h. Equipment. In the event of equipment breakdown or scheduled maintenance of essential equipment (such as equipment required for spreading, compacting and covering waste), the owner or operator shall ensure that sufficient reserve equipment is operating at the site **within 24 hours** of the occurrence [ref. Op. Plan, Sec. 11.b.]. 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.

i. 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. 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 **daily on operating days**. In the event that objectionable odors are detected at the property boundary, the owner or operator shall abate the odors in accordance with Specific Condition #C.5.

3) The owner or operator shall inspect the normal traffic areas of the facility for litter **daily**. The property boundaries shall be inspected for litter **at least daily**. Litter shall be collected and disposed of in the Class I landfill, **at least once per day**, or more often as necessary [ref. Op. Plan, Sec. 7.j.]. 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**.

j. Fires.

1) In accordance with Rule 62-701.320(16), F.A.C., in the event of a fire which requires offsite assistance from the local fire protection authorities, the operator shall implement the procedures outlined in the facility Operations Plan [ref. Op. Plan, Sec. 2.b.], and shall promptly report the incident to the Department in accordance with Specific Condition #C.6., below. Trenches cut into the waste shall not be used to extinguish fires without prior Department approval.

2) Hot loads that are inadvertently accepted at the facility shall be managed in accordance with the procedures in Section 2.3.4 of the facility Operations Plan. Residue from extinguished hot loads shall be disposed of offsite as Class I waste.

3) In the event of a fire within the disposal area, a temporary area, within the disposal footprint away from the affected area, will be established for waste acceptance until the fire is completely extinguished [ref. Op. Plan, Sec. 2.b.].

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.

SPECIFIC CONDITIONS: PART C - Operation Requirements

2. Operating Personnel.

a. A trained operator (trained in accordance with the facility Training Plan) [ref. Op. Plan, Sec. 1.0] 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 area 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. 2.e]. Training of spotters shall be in accordance with the facility Training Plan [ref. Op. Plan, Sec. 1.0].

c. A sufficient trained personnel shall be available, to adequately operate the facility in compliance with this permit and Department rules. In the event that a trained operator or spotter is not available at the site, the facility shall be closed and shall not accept waste. In the event that unacceptable wastes are not adequately removed from the waste prior to disposal, additional trained spotters shall be required.

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.

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. 5.0]. Adequate access to the working face shall be provided for all weather conditions while the facility is receiving waste for disposal [ref. Op. Plan, Sec. 12.0].

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. 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. Load checks shall document the occurrence, type of unacceptable wastes, removal and disposition of unauthorized wastes discovered in the loads [ref. Op. Plan, Sec. 6.0].

b. The permittee shall not accept hazardous waste or any hazardous substance for disposal 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. Hazardous waste shall be managed and disposed of in accordance with the procedures in Sections 2.c. of the Operations Plan and in accordance with the Household Hazardous Waste Collection and Storage Facility Operation Plan.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.4, cont'd)

- 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.
 - d. Sludges generated from stormwater/leachate system maintenance shall be dewatered and adequately characterized as non-hazardous prior to disposal.
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 so as to protect the public health and welfare. Such control shall minimize the creation of nuisance conditions on adjoining property. Complaints 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. The owner or operator shall inspect the site at least **daily** for the presence of offsite odors. In the event that odors are detected at or beyond the property boundary, the owner or operator shall abate the odors in accordance with Rule 62-701.530(3)(b), F.A.C.
 - c. In the event that the odor control measures performed at the facility do not sufficiently abate objectionable odors offsite, the permittee shall submit an odor abatement plan to the Department **within sixty (60) days** of initial detection. The odor abatement plan shall include at a minimum, a description of the proposed corrective actions and a schedule for implementation.
 - d. Dust control activities (i.e. application of water sprays from a water tank truck) shall be implemented such that they do not cause the discharge of contact storm water or leachate from the lined disposal areas.
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, cover systems and berms, gas monitoring system, landfill gas collection and control system, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in intermediately covered or final covered disposal areas shall be prevented. Erosion in the stormwater management system shall be minimized.
 - b. In the event of damage to any portion of the landfill site facilities, unauthorized stormwater/leachate discharge outside the slurry wall, failure of any portion of the landfill systems (including damaged or dry groundwater monitoring wells), fire, explosion, the development of sinkhole(s) or other subsurface instability at the site, the permittee shall **immediately (within 24 hours)** 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.** Routine maintenance does not require notification but shall be noted on daily reports.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

c. In the event that any portion of the groundwater or gradient monitoring system is damaged or unable to be sampled, 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 are damaged or are not operating effectively, corrective actions shall be initiated **within thirty (30) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department.

e. Erosion. Intermediately covered disposal areas, or other disposal areas which discharge to stormwater, which exhibit significant erosion, shall be repaired according to the following schedule:

1) **Within 3 days** if the soil cover materials have eroded such that greater than 50% of the soil in that location has been eroded [ref. Op. Plan, Sec. 7.k], 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. 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.

b. All stormwater conveyances shall be inspected weekly and after a significant rainfall event (greater than 2" rainfall in a 24-hr. period) 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. 10.c.]. Documentation of all inspections and repairs shall be kept on file at the facility.

c. Maintenance of the surface water management system shall be conducted in accordance with Section 10.c. of the Operations Plan.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.7, cont'd)

- d. The permittee shall operate the facility, maintain grades, or utilize berms and swales, to minimize ponded water within the disposal areas.
8. **Leachate Management.**
- a. Leachate shall be managed in accordance with the requirements of Rule 62-701.500(8), F.A.C., Section 8.0 of the Operations Plan, the Water Quality and Leachate Monitoring Requirements [ref.SC#A.2.a(4)], and other applicable Department rules.
 - b. Leachate which has accumulated on the surface in low areas shall be collected and removed, or redirected away from the active disposal areas within 72 hours.
 - c. Leachate Collection and Removal System (LCRS)
Inspections/Maintenance.
 - 1) The Stormwater/Leachate Management System shall minimize stormwater from entering waste filled areas. All stormwater/leachate conveyances shall be inspected daily to verify adequate performance. Conveyances not performing adequately shall be repaired **within three days of discovery**. Documentation of all inspections and repairs shall be kept on file at the facility. [ref. Op. Plan, Sec. 13.0]
 - 2) **Between June 15, 2015 and September 15, 2010**, the entire leachate collection and removal system underdrains and gravity pipelines shall be video inspected or water pressure cleaned to verify adequate performance at least once 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. An inspection report shall be provided and 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) with the locations and the 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. Components not performing adequately shall be repaired as necessary. **No later than October 15, 2015**, a final report summarizing the inspection results (with a copy of the inspection report) and describing the related corrective actions (repairs) when required (with photographic documentation for all repairs and a copy of the inspection videotape) shall be signed and sealed by a professional engineer, and shall be submitted to the Department to verify adequate performance of the leachate collection and removal system. The permittee shall retain a copy of the final report, each inspection report, and each inspection videotape at the facility for reference, and shall provide a copy to the Department upon request.
 - 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. Documentation of all inspections shall be kept on file at the facility, and provided to the Department upon request.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

4) Unless otherwise specified in this permit, the leachate collection and removal system components shall be inspected and maintained as described in Section 8.0 of the Operations Plan.

5) Upon the discovery of any defective (obstructed, separated, deformed) portion of the leachate collection system, the disposal of waste in the affected area shall cease in the affected area until the leachate collection system performance has been restored. Construction of improvements to any part of the LCRS, including significant repairs to the leachate collection system, may require a permit modification pursuant to Specific Condition #A.3. The design and related supporting documents for the construction of improvements shall be substantially equivalent to those required for new construction.

d. Leachate quantities.

1) In the event of a failure of leachate metering or pumping equipment which is not corrected **within 24 hours of detection**, the Department shall be notified, and corrective actions implemented in accordance with Specific Condition #C.6.

2) Leachate generation reports shall be compiled and submitted to the Department **monthly, by the 15th of the following month**. Leachate generation reports shall include the number of open, intermediate and closed acres, the quantities of stormwater/leachate collected, stored, recirculated and disposed off-site to a wastewater treatment facility, and daily precipitation amounts greater than one tenth of an inch.

e. Leachate Disposal.

1) The primary leachate disposal method is pumping to the adjacent County WWTP. In the event that the adjacent County WWTF is unable to accept leachate for disposal, leachate shall be transported to one of Manatee County Utilities other WWTF's [ref. Op. Plan, Sec. 8.d.]. The landfill owner or operator shall notify the Department and shall explain the contingency measures and corrective actions which will be implemented in accordance with Specific Condition C.6.b. The contingency measures shall be implemented **within seven (7) days** of the cessation of leachate acceptance at the on-site treatment system or in accordance with an alternate schedule approved by the Department.

2) Leachate shall not be discharged to the environment from leaks, spills or other unpermitted discharges from the force main piping or pumps. Trucking loading shall be operated to prevent to prevent leachate spills from discharging to the environment. In the event that the leaks, spills or other evidence of leachate discharge is observed at the facility, corrective actions shall be required to ensure that appropriate procedures and/or designs are used to prevent discharge of leachate to the environment.

SPECIFIC CONDITIONS: PART C - Operation Requirements

9. **Special Wastes Handling Requirements.** The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with the procedures in Sections 2.6 and 14.0 of the Operations Plan; the Household Hazardous Waste Collection and Storage Facility Operation Plan (HHW Plan) [ref. SC#A.2.a(3)]; 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.

a. Wastes 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.

b. Special wastes (such as lead acid batteries, white goods, etc.), found at the working face, shall be stored in locations which do not adversely affect the sequence of filling, and shall be managed as described in the Operations Plan and the HHW Plan.

c. The special wastes shall be handled on a first-in, first-out basis and stored in the designated areas as identified in Section 2.c. of the Operations Plan and shown on Sheet C.2 of the Fill Sequence Plans and Figure K-2-1 of the HHW Plan. Unless otherwise specified in this permit, special wastes shall be removed from the facility for recycling and/or disposal **within 30 days of receipt or when the designated storage area/container is full, whichever occurs first**, unless another frequency for removal is approved in writing by the Department.

d. **Asbestos.** Asbestos shall be managed in accordance with Rule 62-701.520(4), F.A.C., Sections 2.c. and 14.c. of the Operations Plan, and all other applicable federal and Department rules. The location of asbestos disposal shall be recorded in accordance with 40 CFR Part 61.154 [ref. Op. Plan, Sec. 14.c.].

e. **Contaminated Soil.** Contaminated soil (except dredge spoil) shall be disposed within the working area and shall have representative analytical results demonstrate that the material is not hazardous and that the material has been adequately dewatered prior to delivery so that the material passes the paint filter test.

f. **White Goods and other scrap metal.** White goods and lawnmowers which may contain liquids (such as oil or gasoline), chlorofluorocarbons (CFCs such as freon), or other gases shall be stored and managed in a manner such that the liquids are contained, and CFCs or other gases are not discharged to the atmosphere. White goods which have had the refrigerant appropriately removed and lawn mowers which have had liquids removed shall be clearly marked. White goods shall be removed at least **semi-annually (every 6 months)**.

g. **Yard Trash.** Yard trash (including clean wood) shall be managed according to Rule 62-709.320, F.A.C., and as described in Section 2.c. of the Operations Plan at the yard waste facility shown on Sheet C.2 of the Fill Sequence Plans.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

h. Tires. Tires removed from the incoming waste stream shall be managed at the facility's waste tire processing facility in accordance with Chapters 62-701 and 62-711, F.A.C., and **Permit #126654-003-WT/02** (including modifications, if any), or its successors.

i. Household Hazardous Waste (HHW). Household hazardous waste shall be managed in accordance with the Household Hazardous Waste Collection and Storage Facility (HHWCSF) Operation Plan [ref. SC#A.2.a(3)], and stored at the HHWCSF.

1) HHW shall be identified, and then segregated for storage within the containment area of the HHWCSF by the end of each collection day. Waste received at the HHWCSF shall be stored within containment areas at all times.

2) Spillage shall be removed and properly packaged for disposal. Soils which have been contaminated by spills shall be removed and packaged for proper disposal on the same day as the spill occurred.

3) Liquids, including contaminated rainwater, shall not be discharged outside of the containment structures.

4) Incompatible materials shall not be stored in the same area and shall not be bulked together.

5) Records on the quantities of HHW collected and removed for disposal shall be compiled monthly and maintained at the facility for Department review upon request.

6) Miscellaneous household hazardous wastes (such as paint, fluorescent light bulbs, chemicals, etc.) shall be managed as described in the HHW Plan [ref. SC#A.2.a(3)].

7) Lead acid batteries. Lead acid batteries are accepted at HHWCSF. Any incidental lead acid batteries that are discovered in waste delivered to the site shall be stored in a manner which prevents the discharge of contaminants to the environment. Lead acid batteries shall be removed for appropriate disposal or recycling when a maximum quantity of 300 batteries is stored on-site [ref. Op. Plan, Sec. 2.c.].

8) Used oil. Used oil is accepted and bulked at the HHWCSF and shall be managed in accordance with Section 13.2 of the HHW Plan. Any used oil that is accepted shall be stored in a manner which prevents discharge to the environment. Used oil shall be removed at least quarterly (every 3 months) or when a maximum quantity of 1000 gallons is stored onsite, whichever occurs sooner [ref. Op. Plan, Sec. 2.c.].

9) Paint. Paint is accepted and bulked at the HHWCSF and shall be managed in accordance with Section 13.2 of the HHW Plan. Any paint that is accepted shall be managed and stored in a manner which prevents discharge to the environment, and shall be removed at least quarterly (every 3 months) or when a maximum quantity of 1500 gallons is stored onsite, whichever occurs sooner [ref. Op. Plan, Sec. 2.c.].

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

10) Electronics. Electronic waste shall be managed and stored at the HHWCSF in accordance with Section 13.4 of the HHW Plan. Electronics to be recycled shall be stored in an undamaged condition, and removed at least quarterly (every 3 months) or when a maximum quantity of 400 lbs (e.g., TVs, computers, etc.) is stored onsite, whichever occurs sooner. Electronics that have been damaged (such as broken into pieces) shall be removed and stored in a covered containment area to prevent contact with rainfall and related discharge, and removed at least quarterly (every 3 months) [ref. Op. Plan, Sec. 2.c].

11) Fluorescent Bulbs. Fluorescent bulbs are accepted and bulked at the HHWCSF and shall be managed in accordance with the HHW Plan, in a manner which prevents discharge to the environment, and shall be removed at least quarterly (every 3 months) or when a maximum quantity of 800 bulbs are stored onsite, whichever occurs sooner [ref. Op. Plan, Sec. 2.c].

10. Waste Handling Requirements.

a. Unauthorized Wastes. A sufficient number of spotters shall be utilized at the facility for removing unacceptable wastes. Unauthorized wastes shall be removed from the site for proper disposal in accordance with the Operations Plan [ref. Op. Plan, Sec. 2.e]. Spotting may be conducted at the working face from the equipment (i.e., not from the ground) while waste is being disposed, under the following conditions:

- 1) The heavy equipment operator is trained as an operator or spotter;
- 2) When unauthorized waste is discovered, the heavy equipment operator shall either move the unauthorized waste away from the active area for subsequent removal and proper management by another person on the ground, or shall stop operation and notify another person on the ground or on other equipment who shall come to the active area and remove the unauthorized waste before operations are resumed; and
- 3) Each load of waste must be visually inspected for unauthorized waste prior to being compacted or covered.

b. A trained spotter shall be at the working face and other special waste management areas at all times that wastes are received.

11. Waste Covering Requirements. All disposed solid waste shall be covered as required by Rule 62-701.500(7), F.A.C.

a. Initial Cover. Initial cover shall be applied and maintained at the end of each working day in the Class I landfill area 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 [ref. Op. Plan, Sec. 7.e]. Working areas which have received initial cover and exhibit erosion which results in exposed waste shall be repaired within three days of discovery.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.11.a., cont'd)

2) The following alternate daily cover materials are acceptable for use at this facility: tarps, soil with up to 25% fines from the yard processing area, dredged soils that have been sufficiently dewatered, and street sweepings [ref. Op. Plan, Sec. 7.e.].

3) Alternate daily cover materials not listed in this Specific Condition are required to be approved by the Department prior to use at the facility.

b. Intermediate Cover. Intermediate cover shall be applied and maintained in accordance with Rules 62-701.500(7)(a) and (f), F.A.C. Cover materials other than soil (unless identified herein) shall not be used for intermediate cover without prior written Department approval.

1) An intermediate cover of 12 inches of compacted soil in addition to the six (6) inch initial cover shall be applied within seven (7) days of cell completion if final cover or an additional lift is not to be applied within 180 days of cell completion [ref. Op. Plan, Sec. 7.g.].

c. Cover materials which have been previously used for intermediate or initial cover, and which contain solid waste shall not be re-used on areas which discharge outside the slurry wall [ref. Op. Plan, Sec. 7.g.].

12. Working Face.

a. As required by Rule 62-701.500(7)(d), F.A.C., the permittee shall minimize the size of the working face (approx. 150 ft. wide) to minimize leachate, and unnecessary use of cover material. The permittee shall maintain the working face of a cell only wide enough to efficiently accommodate the maximum quantity of vehicles discharging waste simultaneously and to minimize the exposed area [ref. Op. Plan, Sec. 7.d.].

b. Interceptor berms shall be maintained around the active working area to prevent leachate runoff from the working face from entering the stormwater management system [ref. SC#A.2.a(8), Sheets C-5 through C-10]. Runoff from outside the working face area will not be considered stormwater if the flow passes over areas which have not been intermediately covered as defined by Rule 62-701.200(55), F.A.C., and stabilized to control erosion, or waste is exposed.

13. Method and Sequence of Filling.

a. The method and sequence of filling shall be in accordance with Fill Sequence Plans [ref. SC#A.2.a(8), Sheets C-5 through C-8 and C-10] as described in Section 2.f. of the Operations Plan, or as otherwise approved in writing by the Department.

b. Waste shall be spread and compacted in accordance with Section 2.g. of the Operations Plan. Slopes shall be maintained in accordance with the Fill Sequence Plans [ref. SC#A.2.a(8)]. All waste slopes (including the working face) shall be no greater (steeper) than 5H:1V [ref. Op. Plan, Sec. 7.g.].

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.13., cont'd)

c. Initial Waste Placement. 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 2.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.

d. The top edge of the slurry wall shall be clearly marked in as many locations as required to prevent waste disposal and stormwater/leachate runoff outside the slurry wall. The markers shall be of a sufficient size or design that effectively prevents waste disposal in unauthorized areas. The markers shall be maintained at all times throughout the operation of the facility to prevent waste disposal and leachate runoff outside the slurry wall.

e. 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. **Annually, no later than May 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 side slopes 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 permit drawings. The capacity estimate shall include updated design life calculations [ref. Op. Plan, Sec. 7.g.].

SPECIFIC CONDITIONS: PART D - Recordkeeping

1. Report Submittals.

a. Unless specified otherwise in this permit, all submittals, notifications, 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. 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 [ref SC#A.2.a(1)] 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 underlined (underlined) 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.** 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. Records shall be kept for all recycled electronics, including the quantities sent to each recycler, and related receipts with the name and address of each recycler.

c. The following reports, documents and other information shall be maintained 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 daily inspections, and any subsequent corrective actions;
- 3) Load checking records;
- 4) A list of incidents of disposal of unacceptable or prohibited wastes. This list should include the generator's name and address, and a description of the waste disposed;
- 5) Operator and spotter training certificates and other documentation;

SPECIFIC CONDITIONS: PART D - Recordkeeping

(Specific Condition #D.3.b., cont'd)

- 6) Log of odor complaints and corrective action;
- 7) Records as described in Rule 62-701.500(13). These records shall include all certifications for construction completion;
- 8) Documentation of incidents reported pursuant to Specific Condition C.6.; and
- 9) Water quality and gas monitoring reports.
- 10) Gas collection and control system monitoring records [ref. Op. Plan, Sec. 9.c.].

3. **Financial Assurance.** The permittee shall provide 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 **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, MS#4565, 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 certificates 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.

b. The field testing, sample collection and preservation and laboratory testing, including the collection of 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 landfill shall extend horizontally 100 feet from the limits of the landfill slurry wall (designated as Stage I, II and III landfill 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(1), F.A.C., and that the ground water minimum criteria referenced in Rule 62-520.400(1), F.A.C., will not be exceeded outside the footprint of the landfill slurry wall (designated as Stage I, II and III landfill areas).

3. Ground Water Monitor Well Locations. The ground water monitoring system is designed and constructed in accordance with "Part L: Water Quality and Leachate Monitoring Requirements" of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated October 1, 2010, received October 7, 2010, November 15, 2010, and January 3, 2011 [ref. SC #A.2.a.(4)]. The ground water monitor wells are located on Figure L-1 ("Water Quality and Elevation Monitoring Network"), prepared by PBS&J, received January 3, 2011 (**attached**), as follows:

<u>Well #</u>	<u>Scheduling</u> <u>Notes</u>	<u>WACS</u> <u>Testsite #</u>	<u>Aquifer</u> <u>Monitored</u>	<u>Well</u> <u>Designation</u>	<u>Location</u>
GW-1	A, X, Y	21593	Surficial	Detection	See Figure L-1
GW-2	A, X, Y	21594	Surficial	Detection	↓
GW-3	A, X	21595	Surficial	Detection	↓
GW-4	A, X	21596	Surficial	Detection	↓
GW-5	A, X	21597	Surficial	Detection	↓
GW-6	A, X	21598	Surficial	Detection	↓

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.3., continued)

<u>Well #</u>	<u>Scheduling Notes</u>	<u>WACS Testsite #</u>	<u>Aquifer Monitored</u>	<u>Well Designation</u>	<u>Location</u>
GW-7	A, X	21599	Surficial	Detection	See Figure L-1
GW-8	A, X	21600	Surficial	Detection	↓
GW-9	A, X	21601	Surficial	Detection	↓
GW-10	A, X	21602	Surficial	Detection	↓
GW-11	A, X	21603	Surficial	Detection	↓
GW-12	A, X	21604	Surficial	Detection	↓
GW-13	A, X	21605	Surficial	Detection	See Figure L-1
GW-14	A, X	21606	Surficial	Detection	↓
GW-15	A, X	21607	Surficial	Detection	↓
GW-16	A, X	21608	Surficial	Detection	↓
GW-17	A, X	21609	Surficial	Detection	↓
BGW-1	A, X	21610	Surficial	Background	↓
GW-18	B, Z	27495	Surficial	Detection	See Figure L-1
GW-19	B, Z	27496	Surficial	Detection	↓
GW-20	B, Z	27497	Surficial	Detection	↓
GW-21	B, Z	27498	Surficial	Detection	↓
GW-22	B, Z	27499	Surficial	Detection	↓
GW-23	B, Z	27500	Surficial	Detection	↓
GW-24	B, Z	27501	Surficial	Detection	See Figure L-1
GW-25	B, Z	27502	Surficial	Detection	↓
GW-26	B, Z	27503	Surficial	Detection	↓
GW-27	B, Z	27504	Surficial	Detection	↓
GW-28	B, Z	27505	Surficial	Detection	↓

Scheduling Notes:

A = existing well/piezometer; construction details previously submitted.

B = proposed detection wells GW-18 through GW-28 shall be installed **at least 30 days prior to the initiation of debris disposal in Stage II** in accordance with the construction details provided in Figure L-2 entitled "Monitoring Well and Piezometer Construction Details" in "Part L: Water Quality and Leachate Monitoring Requirements" of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated October 1, 2010, received October 7, 2010, November 15, 2010, and January 3, 2011 [ref. SC#A.2.a(4)]; a ground water "initial sampling event" shall be conducted **within 7 days of well installation and development** for the parameters referenced in Specific Condition #E.5.c.

X = documentation of well construction details and results of the ground water "initial sampling event" previously submitted.

Y = to be abandoned **at least 15 days prior to the initiation of activities associated with the construction of Stage II**; documentation of abandonment shall be submitted in accordance with Specific Condition #E.6., as part of the certification of construction completion prepared for Stage II.

Z = documentation of well construction details prepared in accordance with Specific Conditions #E.5.b., and #E.5.d., and the results of the ground water "initial sampling event" shall be **submitted as part of the certification of the Stage II construction completion.**

All monitor 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 monitor wells locked to minimize unauthorized access.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

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(1), F.A.C., and with the ground water minimum criteria referenced in Rule 62-520.400(1), F.A.C. Compliance with ground water standards shall be based on the analysis of unfiltered samples.

a. Ground water levels shall be measured at all active wells listed in Specific Condition #E.3., and all piezometers listed in Specific Condition #E.10., during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.9.c., to a precision of 0.01 foot. The ground water surface contour maps prepared for each sampling event shall include ground water and surface water elevations (using a consistent, nationally recognized datum) calculated for each well and at the electronic water level monitoring devices installed in the lake pump stations described in Specific Condition #E.9.a.

b. An "initial sampling event" shall be conducted **within 7 days of installation and development** of all new and replacement monitor wells (including proposed detection wells GW-18 through GW-28) 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 II</u>	

c. All active background and detection wells listed in Specific Condition #E.3., shall be sampled **semi-annually** (during the periods from Jan.1 - June 30, and from July 1 - Dec. 31). In accordance with Rule 62-701.510(6)(d), F.A.C., samples collected from these wells shall be analyzed for 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>	

Following completion of the ground water "initial sampling event," proposed detection wells GW-18 through GW-28 shall be included in subsequent routine, semi-annual sampling events.

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 wells and piezometers, or as stated below:

a. Prior to construction of all new or replacement wells and piezometers (excluding the proposed locations listed in Specific Conditions #E.3., and #E.10., respectively), the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.

b. Construction details (record drawings) for all new or replacement wells and piezometers shall be provided to the Department's Southwest District Office on Department Form No. 62-701.900(30), Monitoring Well Completion Report (**attached**).

c. **Within one week 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 Rule 62-701.510(6)(b)2, 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 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 monitor wells and piezometers not a part of the approved Water Quality Monitoring Plan (not listed in Specific Conditions #E.3., and #E.10.), are to 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.

7. **Verification/Evaluation Monitoring.** If at any time monitoring parameters are detected in concentrations that are significantly above background water quality or that are at levels above the Department's water quality standards or minimum criteria specified in Chapter 62-520, F.A.C., 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 as representative of current ground water conditions at the facility. If the data is confirmed, or if the permittee chooses not to resample, the permittee shall notify the Department in writing within 14 days of this finding. 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 and confirmed at concentrations that exceed both background water quality and the Department's water quality standards or minimum criteria in any compliance well, the permittee shall notify the Department in writing within 14 days of this finding and shall initiate corrective actions as described in Rule 62-701.510(7)(c), F.A.C.

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 less than or equal to the criteria for each parameter established in Chapter 62-302, F.A.C., to demonstrate compliance with Class III (predominantly fresh water) surface water standards. Compliance with surface water criteria will be based on analysis of unfiltered samples.

a. Surface water levels shall be measured using the electronic water level monitoring devices installed at the pump stations in the East Lake and South Lake pump stations shown on Figure L-1 ("Water Quality and Elevation Monitoring Network"), prepared by PBS&J, received January 3, 2011 (**attached**) during all sampling events described in Specific Conditions #E.9.b., #E.4.b., and #E.4.c., to a precision of 0.01 foot. Surface water body elevations (using a consistent, nationally recognized datum) recorded at these lake pump stations shall be noted on ground water surface contour maps prepared for each sampling event.

b. Surface water sample collection points shall be located as shown on Figure L-1 ("Water Quality and Elevation Monitoring Network"), prepared by PBS&J, received January 3, 2011 (**attached**), as follow:

<u>Surface</u> <u>Water ID #</u>	<u>WACS</u> <u>Testsite #</u>	<u>Location</u>
SW-1	1663	Downstream location, Cypress Strand
SW-2	1665	Upstream location, Cypress Strand

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.

c. **Semi-annual** surface water sampling shall be conducted at locations #SW-1 and #SW-2 in accordance with 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	Total nitrogen
Dissolved oxygen	(as mg/L CaCO ₃)	Chemical oxygen demand (COD)
Turbidity	Total phosphorus	Fecal Coliform
Temperature	(as mg/L P)	Biochemical oxygen demand (BOD ₅)
Colors and sheens	Iron	Total dissolved solids (TDS)
(by obs.)	Mercury	Total suspended solids (TSS)
	Nitrate	Chlorophyll A
	Parameters listed in 40 CFR Part 258, Appendix I	

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

9. **Leachate Sampling.** Individual grab samples of leachate (unfiltered) shall be collected from the each of the leachate pump stations for the sampling events described in Specific Conditions #E.9.b., and #E.9.c. Leachate sampling shall be conducted at Lift Station #4 following the initiation of waste disposal in the Stage II footprint. Method Detection Limits must be reported at or below the regulatory levels established for the individual parameters to demonstrate compliance with 40 CFR Part 261.24. Leachate sampling shall be conducted in accordance with the Department's SOPs to comply with the requirements of Rules 62-701.510(5) and 62-701.510(6)(c), F.A.C.

a. Representative leachate samples shall be collected at the locations depicted on Figure L-1 ("Water Quality and Elevation Monitoring Network"), prepared by PBS&J, received January 3, 2011 (**attached**), as follow:

<u>Leachate</u> <u>Sample ID #</u>	<u>WACS Testsite</u> <u>Testsite #</u>	<u>Landfill</u> <u>Disposal Area</u>
Lift Station #1	21611	Stage I
Lift Station #2	21612	Stage I
Lift Station #3	21613	Stage III
Lift Station #4	27506	Stage II

b. **Annual** leachate sampling (for the periods from Jan. 1 - Dec. 31) shall be conducted at each of the leachate lift stations for analysis of the following parameters:

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

c. If the annual leachate analyses indicate that a contaminant listed in 40 CFR Part 261.24 exceeds the regulatory level listed therein, the permittee shall initiate **monthly** leachate sampling at each of the active locations listed in Specific Condition #E.9.a., for analysis of the parameters listed in Specific Condition #E.9.b., and shall notify the Department in writing in accordance with Specific Condition #C.6.b. Results of the monthly leachate sampling shall be submitted **within 30 days of receipt from the analytical laboratory**. If in any three consecutive months no listed contaminant is found to exceed the regulatory level, the permittee may discontinue the monthly sampling and analysis and return to a routine sampling schedule.

10. **Gradient Monitoring.** Horizontal hydraulic gradient across the slurry wall shall be measured **monthly** at the following monitoring points ("P" denotes a piezometer located inside the slurry wall and "GW" denotes a monitor well located outside the slurry wall). Monitoring points are located on Figure L-1 ("Water Quality and Elevation Monitoring Network"), prepared by PBS&J, received January 3, 2011 (**attached**).

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.10., continued)

<u>Interior Monitoring Point</u>	<u>Exterior Monitoring Point</u>	<u>Scheduling Notes</u>
PZ-1	GW-1	A, B
PZ-2	GW-2	A, B
PZ-3	GW-3	A
PZ-4	GW-4	A
PZ-5	GW-5	A
PZ-6	GW-6	A
PZ-7	GW-7	A
PZ-8	GW-8	A
PZ-9	GW-9	A
PZ-10	GW-10	A
PZ-11	GW-11	A
PZ-12	GW-12	A
PZ-13	GW-13	A
PZ-14	GW-14	A
PZ-15	GW-15	A
PZ-16	GW-16	A
PZ-17	GW-17	A
PZ-18	GW-18	C
PZ-19	GW-19	C
PZ-20	GW-20	C
PZ-21	GW-21	C
PZ-22	GW-22	C
PZ-23	GW-23	C
PZ-24	GW-24	C
PZ-25	GW-25	C
PZ-26	GW-26	C
PZ-27	GW-27	C
PZ-28	GW-28	C

Scheduling Notes:

A = existing well/piezometer; construction details previously submitted.

B = to be abandoned **at least 15 days prior to the initiation of activities associated with the construction of Stage II**; documentation of abandonment shall be submitted in accordance with Specific Condition #E.6., as part of the certification of construction completion prepared for Stage II.

C = proposed detection wells GW-18 through GW-28 and proposed piezometers P-18 through P-28 shall be installed **at least 30 days prior to initiation of debris disposal in Stage II** in accordance with the construction details provided in Figure L-2 entitled "Monitoring Well and Piezometer Construction Details" in "Part L: Water Quality and Leachate Monitoring Requirements" of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated October 1, 2010, received October 7, 2010 and November 15, 2010 [ref. SC #A.2.a.(4)]; documentation of well and piezometer construction details prepared in accordance with Specific Conditions #E.5.b., and #E.5.d., shall be **submitted as part of the certification of the Stage II construction completion.**

These points shall be monitored **monthly** for water levels to an accuracy of 0.01 feet. Results of the monthly monitoring shall be submitted by the **15th day of the following month**. An inward gradient shall be maintained across the slurry wall as described in "Part L: Water Quality and Leachate Monitoring Requirements" of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated October 1, 2010, received October 7, 2010, November 15, 2010, and January 3, 2011 [ref. SC #A.2.a.(4)]. If an outward gradient exists, steps for correcting the gradient shall be included with the related monthly data. Damaged gradient monitoring points shall be replaced within thirty (30) days to ensure continuous monthly monitoring at all points.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

11. **Water Quality and Leachate Reporting Requirements.** The results of each ground water, surface water, and leachate sampling event conducted at the Lena Road 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 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 EDD report 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. Water Quality Monitoring Certification, using Department Form #62-701.900(31);
7. Appropriate sampling information on Department 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 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 to December 31, and January 1 to June 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.c. - 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 to December 31, and January 1 to June 30, respectively;

5. Specific Condition #E.9.b. - results of leachate 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 periods January 1-December 31; and,

6. Specific Condition #E.9.c. - results of leachate monthly sampling events shall be submitted **within 30 days from completion of laboratory analyses.**

12. Monitoring Plan Evaluation.

a. An evaluation of ground water levels and ground water velocity shall be conducted prior to the installation of proposed detection wells GW-26 and GW-27 to determine the appropriateness of the well designation indicated in Specific Condition #E.3., (i.e., as "detection wells" rather than as "compliance wells") and the appropriateness of the routine ground water sampling frequency indicated in Specific Condition #E.4.c. (i.e., at a semi-annual frequency rather than at a quarterly frequency). In the event that changes to the well locations (lateral distance from the slurry wall on the west side of Stage II), well designations or routine ground water sampling frequency are determined to be appropriate, the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.

b. **By July 1, 2013 and October 1, 2015**, 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 Data Evaluation Due Date</u>	<u>Starting Sampling Event</u>	<u>Ending Sampling Event</u>
July 1, 2013	Second half 2009	Second half 2012
October 1, 2015	First half 2013	First half 2015

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, Florida 33637-0926.

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

1. Landfill Gas - NPs 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 Rule 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 gas 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
Quarter 2
Quarter 3
Quarter 4

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.** The ambient gas monitoring points and perimeter gas monitoring probes are located on Figure K-8 prepared by PBS&J ("Landfill Gas Migration Monitoring Locations") received October 7, 2010 (**attached**), and 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.

Ambient Gas Monitoring Points

Location Description

Administration Building
HH Waste Drop-off Building
Scale House Building
Maintenance Office
Maintenance Building

Perimeter Gas Monitoring Probe

Location Description

GMW-1	Stage III landfill perimeter - west
GMW-2	Stage III landfill perimeter - southeast corner
GMW-3	Stage I landfill perimeter - west
GMW-4	Stage I landfill perimeter - south
GMW-5	Stage I landfill perimeter - southeast corner
GMW-6	Stage I landfill perimeter - northeast corner
GMW-7	Stage II landfill perimeter - east
GMW-8	Stage II landfill perimeter - north
GMW-9	Stage II landfill perimeter - west
GMW-10	Stage III landfill perimeter - north
GMW-11A	Stage III landfill perimeter - north
GMW-11B	Stage III landfill perimeter - north
GMW-11C	Stage III landfill perimeter - north

The gas probes 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 Management System.**

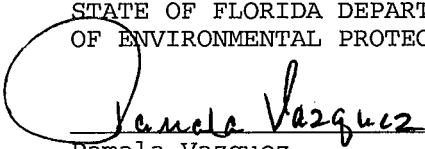
a. Operation of the Stage I gas management system shall be in accordance with Chapters 62-701, F.A.C., and **Permit #39884-011-SF/01** (including modifications, if any), or its successors.

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

1. **Closure Permit Requirements.** No later than ninety (90) days prior to the date when wastes will no longer be accepted for portions of the landfill which have reached closure design dimensions, the landfill owner or operator shall submit a closure permit application to the Department, in order to assure conformance with all applicable Department rules. A closure permit is required prior to implementing closure related activities.
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 **Permit #39884-011-SF/01** (including modifications, if any), or its successors.
 - 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.
 - 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.

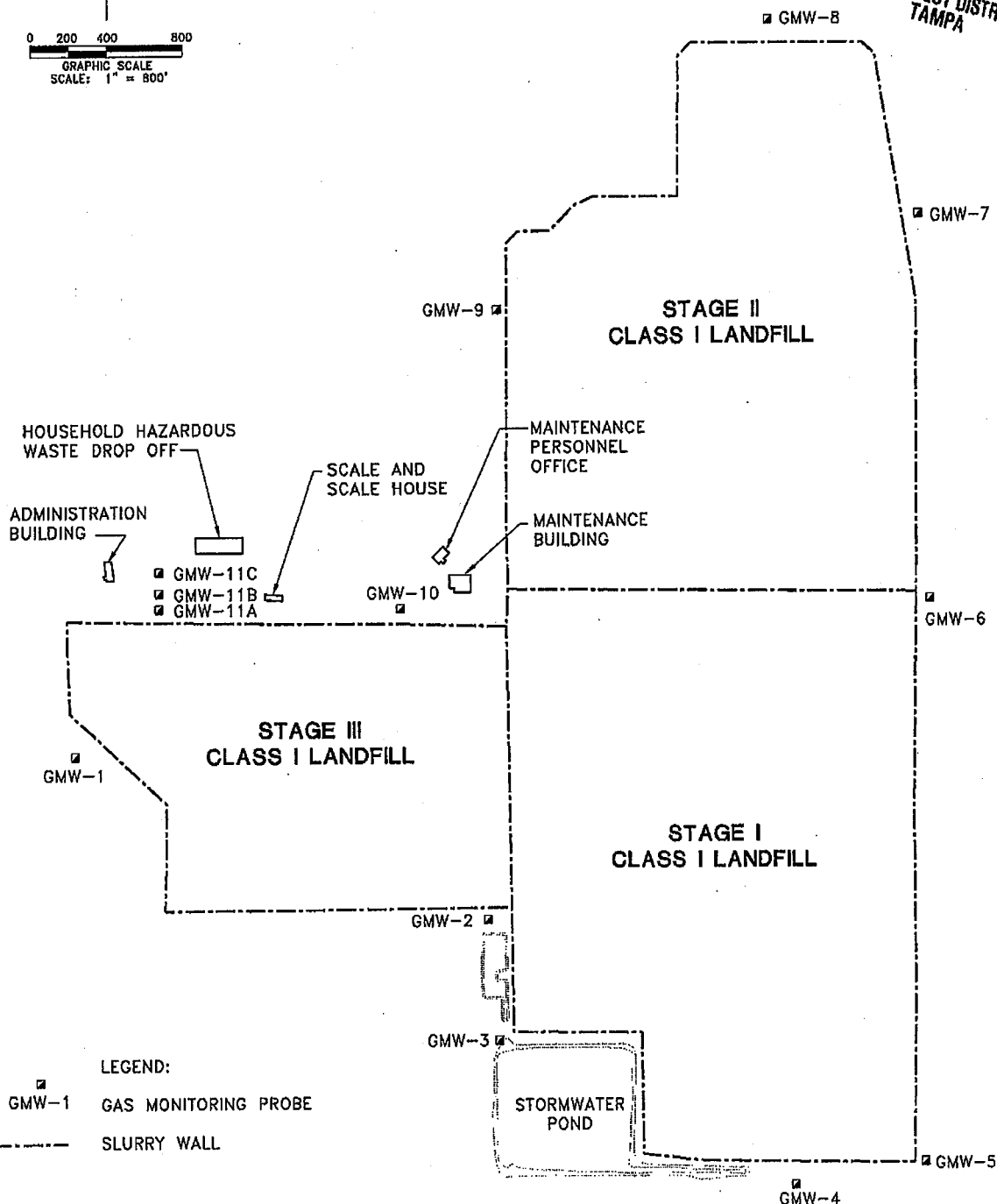
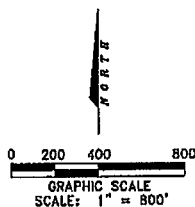
STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Pamela Vazquez
Program Administrator
Southwest District

ATTACHMENT 1		
Specific Condition	Submittal Due Date	Required Item
A.4.	On or before July 1, 2015 No later than November 1, 2015	Notification of date of permit renewal application submittal Submit application for permit renewal
A.9.b.,	Within 24 hours of discovery Within 7 days of verbal notification	Notification of: sinkholes, hazardous waste receipt, failure of landfill systems or equipment Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
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 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 management system
C.8.c(2)	No later than October 15, 2015	Submit leachate collection system inspection report
C.8.d(2)	By the 15 th each month	Submit leachate generation reports
C.13.e.	Annually, by May 1 st each year	Submit topographic survey & capacity calculations, and certification
D.3.a.	Annually, by September 1 st each year	Submit revised cost estimates
D.3.b.	Annually	Submit proof of funding
E.3., E.10.	At least 30 days prior to initiation of debris disposal in Stage II	Install proposed detection wells and piezometers
E.4.b.	Within 7 days of installation and development of new or replacement wells	Conduct ground water "initial sampling event"
E.4.c.	Semi-annually	Sample all background and detection wells

ATTACHMENT 1, cont'd		
Specific Condition	Submittal Due Date	Required Item
E.5.b.	Within 90 days of installation	Submit well construction information
E.5.c.	Within 1 week of well completion and development	Conduct ground water "initial sampling event"
E.5.d.	Within 90 days of new or replacement well installation	Submit survey drawing
E.6.	Within 30 days of abandonment	Submit report of well 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
E.8.c.	Semi-annually	Sample/analyze surface water
E.9.b.	Annually	Sample/analyze leachate
E.9.c.	Monthly	Sample/analyze leachate if annual leachate results indicate exceedances of 40 CFR Part 261.24 regulatory levels
E.10.	Monthly By the 15 th of the following month	Measure horizontal hydraulic gradient across the slurry wall Submit gradient results
E.11.b.1., E.11.b.3., E.11.b.6.	Within 60 days from completion of laboratory analyses	Submit analytical results of: - Ground water initial sampling - Ground water resampling - Leachate monthly sampling
E.11.b.2., E.11.b.4.	Semi-annually, by January 15 th and July 15 th	Submit analytical results of: - Ground water routine sampling - Surface water routine sampling
E.11.b.5.	Annually, by January 15 th	Submit analytical results of: - Leachate annual sampling
E.12.b.	By July 1, 2013 and October 1, 20159	Submit water quality monitoring evaluation report
F.2.c.	Quarterly, by January 15 th , April 15 th , July 15 th and October 15 th	Submit gas monitoring results
G.1.	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
OCT 07 2010
SOUTHWEST DISTRICT
TAMPA



REVISED: 1-12-10



LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

LANDFILL GAS MIGRATION
MONITORING LOCATIONS

FIG. K-8

U:\old_H_S\ENV\ADD\WASTEMAN\Manatee\Renewal-2010\mfr_FG-K-8_LFG PROBES.dwg Aug24,2010 - 6:15pm Plotted By: 9327



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.