



Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

CERTIFIED MAIL #7008 0150 0003 4893 7315
RETURN RECEIPT REQUESTED

NOTICE OF PERMIT

Mr. Barry M. Boldissar, Director
Hillsborough County Solid Waste Department
P.O. Box 1110
Tampa, Fl. 33601

December 29, 2008

RE: Hillsborough Southeast County Landfill
Phases I-VI and Sections 7-9 Operation
Permit No.: 35435-014-SO/01

Dear Mr. Boldissar:

Enclosed is permit number 35435-014-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.

PERMITTEE: Hillsborough Co. Solid Waste Dept.
Mr. Barry M. Boldissar, Director

PERMIT NO: 35435-014-SO/01
Southeast County Class I Landfill Operation

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Mike Pomeroy

Deborah A. Getzoff
District Director
Southwest District

DAG/sgm

Enclosures

cc: Hillsborough County Notification List
Jason Timmons, P.E., Jones Edmunds, JTimmons@jonesedmunds.com
Frank Hornbrook, 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)
(Permit Notebook) FDEP Tampa

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 12-29-2008
(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.

Marcia Haines
Clerk

12-29-08
Date



Florida Department of Environmental Protection

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

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

PERMITTEE

Hillsborough County
Solid Waste Management Dept.
c/o Mr. Barry M. Boldissar, Director
Post Office Box 1110
Tampa, Florida 33601

PERMIT/CERTIFICATION

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

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

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

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

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

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

General Information

Phases I-VI:	
Disposal acres	162.4 acres
Lowest elevation	+113 feet NGVD (approx.) (2001)
Bottom liner design	In-situ phosphatic clay w/single 36 mil CSPE tied in as side liners
LCS design	LCS: gravel, tire chips in trenches; 8" HDPE & 8" PVC pipes to perimeter & Pump Stations A & B
Final elevation	+255 feet NGVD,
Slopes	4H:1V side slopes (exterior), 5% top

Section 7/8:	
Disposal acres	19.3 acres
Lowest elevation	+121 feet NGVD
Bottom liner design	Double, 60 mil HDPE
LCS design	Primary LCS piping on composite geonet
LDS design	Composite geonet
Action leakage rate (ALR)	100 gal/ac/day
Slopes	3H:1V side slopes (exterior), 5% top slope

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

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

(a) Have access to and copy any records that must be kept under conditions of the permit;

(b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and

(c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

GENERAL CONDITIONS:

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- (a) A description of and cause of noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300, Florida Administrative Code, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

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

14. The permittee shall comply with the following:

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

GENERAL CONDITIONS:

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

(c) Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

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

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

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

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

3. **Permit Modifications.**

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

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

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

(Specific Condition #A.3., continued)

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

- 1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of Construction Permit No. 35435-015-SC/08 or its successors.
- 2) Issuance of an ERP stormwater permit or modification that authorizes construction and operation of modifications to the stormwater management system required by the construction authorized by this permit and,
- 3) Documentation that the stormwater management system modifications authorized by the stormwater permit modification referenced in Specific Condition #A.c.(2) above have been constructed and approved for operation by the Department's ERP stormwater section.

4. **Permit Renewal. No later than June 15, 2013,** the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five years as required by Rule 62-701.320(10), F.A.C. Operation permit renewal shall include, but not be limited to, an updated Operations Plan and Site Plans for sequence of filling with cross-sections of lifts, a water quality monitoring plan evaluation, and revised (not inflation-adjusted) financial assurance cost estimates.

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 May 27, 2001, 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. **Construction.** All significant construction activities shall be approved by the Department prior to initiating work, unless specifically authorized otherwise.

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

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

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

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

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

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

SPECIFIC CONDITIONS: PART C - Operation Requirements

1. Facility Operation Requirements.

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

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

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

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

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

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

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

g. Site Inspections.

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

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

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

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

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

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

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

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

2. Operating Personnel.

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

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

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

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

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

4. **Monitoring of Waste.**

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

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

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

5. **Control of Nuisance Conditions.**

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

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

SPECIFIC CONDITIONS: PART C - Operation Requirements

6. Facility Maintenance and Repair.

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

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

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

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

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

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

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

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

h. Settlement. Areas which exhibit settlement (low spots and improperly graded areas) that may cause ponding of water shall be repaired (additional soil placed, regraded, seeded and/or sodded) **within seven (7) days**.

SPECIFIC CONDITIONS: PART C - Operation Requirements

7. Stormwater System Management.

a. The site shall have a surface water management system designed, constructed, operated, and maintained to prevent surface water from running on to waste filled areas and the mixing of stormwater with leachate, and a stormwater runoff control system designed, constructed, operated, and maintained to collect and control stormwater to meet the requirements of Chapter 62-330, F.A.C., and the requirements for management and storage of surface water in accordance with Rule 62-701.500(10), F.A.C., to meet applicable standards of Chapters 62-3, 62-302, and 62-330, F.A.C. All stormwater conveyances shall be inspected monthly and after significant (greater than 2") rainfall events to verify adequate performance. Conveyances not performing adequately shall be repaired in accordance with the procedures specified in the Operations Plan [ref. Op. Plan, Sec. L.10]. Documentation of all inspections and repairs shall be kept on file at the facility.

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

8. Leachate Management.

a. Leachate shall be managed in accordance with the requirements of Rule 62-701.500(8), F.A.C., the facility Leachate Management Plan (LMP) [ref. SC#A.2.a.(4)], and other applicable Department rules.

b. Leachate which has accumulated on the surface in low areas within the active disposal area shall be removed from the disposal area within 72 hours.

c. In the event that the leachate level in Pump Station B exceeds 24 inches, the operation of the PPS-B pump(s) and Bubbler Pump Controller shall be evaluated. If the cause of excessive leachate in PPS-B is pump failure, a replacement pump shall be installed within 24 hours of detection of the pump failure, otherwise, the Department shall be notified in accordance with Specific Condition #C.6.b., and a corrective action plan shall be submitted for Department approval.

d. TPS-6 consists of a vacuum assisted pump with a 3-inch to 4-inch diameter suction line installed within the header of cleanout 4-1 to reach 600 feet into the landfill near the top of clay elevation +114 feet NGVD. TPS-6 shall remain in place, and continue to be operated and maintained as described in the Section 4.1.3 of the LMP, unless otherwise authorized by the Department.

e. Leachate Disposal.

1) In the event that the on-site Leachate Treatment and Reclamation Facility (LTRF) is not operational, leachate shall be hauled offsite for disposal at an appropriately permitted wastewater treatment facility. No later than **thirty (30) days** prior to the expiration of any contracts or agreements for the disposal of leachate at wastewater treatment facilities, the permittee shall provide a copy of the contract renewal or the issuance of a new contract for leachate disposal.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

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

f. Leachate Quantities.

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

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

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

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

g. Leachate Leakage Action Rates.

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

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

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

h. Leachate Collection System Inspections/Maintenance.

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

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

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

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

i. Leachate Treatment and Removal System Operation.

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

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

2) Biosolids and sludge from the LTRF shall be characterized at least annually, in accordance with Specific Condition #E.9.c., to demonstrate that the sludge and biosolids are non-hazardous. The sludge and biosolids shall be dewatered sufficiently (i.e. pass the paint filter test, EPA method 9095) prior to disposal in the landfill.

3) The effluent depth in Pond A shall not exceed 3.7 feet. The effluent/leachate depth in Pond B shall not exceed 4.4 feet.

j. Land Application of Leachate Treatment Plant Effluent.

1) Spray irrigation of effluent from the leachate treatment facility is allowed over intermediately closed portions of Phases I-VI of the landfill in accordance with Section 8.3.2 of the LMP. Under no circumstance shall treated leachate effluent be allowed to discharge as runoff to adjacent storm water systems or conveyance ditches. Treated leachate effluent shall not be sprayed during weather conditions or in quantities that may cause runoff, surface seeps, wind-blown spray, or exceedances of limits of leachate head on the liner. The spray irrigation of treated leachate effluent shall not cause ponding on landfilled areas [ref. LMP Secs. 8.3.2].

2) Spray irrigation shall take place only when runoff into the onsite retention areas downgradient from the spray areas has terminated for 2 hours based on daily inspections of the influent point to each related retention area, or as follows, whichever is more restrictive [ref. LMP Secs. 8.3.2]:

- a) At least 4 hours after a rainfall of 0.75 inch or less, or
- b) At least 24 hours after a rainfall of 0.75 to 2.5 inches, or
- c) At least 48 hours after a rainfall of 2.5 inches or greater

3) The following shall be recorded daily [ref. LMP Secs. 8.3.2]:

- a) Treated effluent sprayed (gal/day)
- b) Rainfall onsite (inches/day and time/duration of rainfall occurrence)
- c) Observed runoff influent to retention area (yes/no and inspection time)

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

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

5) Leachate/effluent evaporation via truck-mounted spraying is allowed only on active-fill areas, including the working face, and areas with the required 6-inches of initial cover, at a maximum average application rate of 9700 gal/day in accordance with the procedures and restrictions in Section 8.4 of the LMP.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

k. Phase I-VI Bottom Liner Clay Evaluation.

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

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

3) The results of the clay liner strength and stability evaluation shall be submitted to the Department for approval **at least 6 months prior** to the commencement of filling in each lift.

9. **Special Wastes Handling Requirements.**

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

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

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

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

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

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

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

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

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

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

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

10. Waste Handling Requirements.

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

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

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

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

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

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

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

b) Waste tires that have been cut into sufficiently small parts, which means that 70 percent of the waste tire material is cut into pieces of 4 square inches or less and 100 percent of the waste tire material is 32 square inches or less, and applied in a six (6) inch compacted layer, may be used as initial cover within the bermed working area.

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

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

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

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

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

SPECIFIC CONDITIONS: PART C - Operation Requirements

12. Working Face.

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

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

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

13. Method and Sequence of Filling.

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

b. Initial Waste Placement.

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

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

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

SPECIFIC CONDITIONS: PART D - Recordkeeping

1. Report Submittals.

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

2. Operation Plan and Operating Record.

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

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

3. Waste Records.

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

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

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

PERMITTEE: Hillsborough Co. Solid Waste Dept.
Mr. Barry M. Boldissar, Director

PERMIT NO: 35435-014-SO/01
Southeast County Class I Landfill Operation

SPECIFIC CONDITIONS: PART D - Recordkeeping

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

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

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

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

1. Water Quality Monitoring Quality Assurance.

a. All field work done in connection with the facility's Water Quality Monitoring Plan regarding the collection of ground water, surface water and leachate samples shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 dated February 1, 2004 [or as replaced by successor SOPs], as referenced in Rule 62-160.210(1), F.A.C. All laboratory analyses done in connection with the facility's Water Quality Monitoring Plan shall be conducted by firms that hold certification from the Department of Health, Environmental Laboratory Certification Program under Chapter 64E-1, F.A.C., as referenced in Rule 62-160.300(1), F.A.C. The SOPs utilized and the laboratory's list of certified test methods and analytes must specifically address the types of sampling and analytical work that are required by the permit and shall be implemented by all persons performing sample collection or analysis related to this permit. Alternate field procedures and laboratory methods may be used if approved according to the requirements of Rules 62-160.220 and 62-160.330, F.A.C., respectively.

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

2. Zone of Discharge.

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

b. The permittee shall ensure that the water quality standards for Class G-II ground water will not be exceeded at the boundary of the zone of discharge according to Rule 62-520.420, F.A.C., and that the ground water minimum criteria referenced in Rule 62-520.400, F.A.C., will not be exceeded outside the footprint of the landfill disposal areas.

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

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.3., continued)

Wells associated with the monitoring of Phases I-VI

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

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

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

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

Existing monitor wells TH-19A, TH-20A, TH-20B, TH-22, TH-24, TH-26, TH-30, TH-32, TH-34A, TH-35, TH-35A, TH-38B, TH-41, TH-42, and TH-56 shall be considered as inactive wells and reserved for future use. These inactive monitor wells and the existing piezometers P-4S, P-4D, P-5D, P-6D, P-7D, P-8D, P-11D, P-12S, P-13S, P-14S, P-15S, P-16S, P-16I, P-16D, P-17S, P-17I, P-17D and P-18S shall be included in the monthly water level measurements conducted at the Southeast County Landfill by Hillsborough County.

All wells and piezometers are to be clearly labeled and easily visible at all times. The permittee should keep all wells locked to minimize unauthorized access.

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

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.4., continued)

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

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

Field Parameters

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

Laboratory Parameters

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

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

Field parameters

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

Laboratory parameters

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

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

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

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

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

b. Construction details (record drawings) for all new or replacement monitor wells and piezometers shall be provided to the Department's Southwest District Office on Department Form #62-522.900(3), Monitor Well Completion Form (**attached**) [or as replaced by Department Form #62-701.900(30)].

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

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

6. Well Abandonment. All active and inactive monitor wells, and piezometers not listed in Specific Condition #E.3., and not a part of the approved Water Quality Monitoring Plan shall be plugged and abandoned in accordance with Rule 62-532.440, 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 at concentrations significantly above background water quality, or exceed the Department's ground water quality standards or minimum criteria in any detection well, the Permittee has 30 days from receipt of the sampling results to resample the monitor well(s) to verify the original analysis. Should the Permittee choose not to resample, the Department will consider the water quality analysis to be representative of current ground water conditions at the facility. If the data is confirmed, or if the Permittee chooses not to resample, the Permittee shall notify the Department in writing within 14 days of this finding. Upon notification by the Department, the Permittee shall initiate evaluation monitoring as described in Rule 62-701.510(7) (a), F.A.C. If monitoring parameters are detected at concentrations significantly above background water quality, and exceed the Department's ground water quality standards or minimum criteria in any compliance well, the Permittee shall submit a preventive measures plan and initiate corrective action as described in Rule 62-701.510(7) (b), 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 reported at or below the criteria established for the individual parameters to demonstrate compliance with Class III (predominantly fresh water) surface water criteria presented in Chapter 62-302, F.A.C. Compliance with surface water criteria will be based on analysis of unfiltered samples.

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

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

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

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

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

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

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

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

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

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

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

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

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Specific conductivity	Total ammonia - N	Iron
pH	Bicarbonate	Mercury
Dissolved oxygen	Chlorides	Sodium
Colors & sheens (by obs.)	Nitrate	
(by observation)	Total dissolved solids (TDS)	
	<u>Those parameters listed in</u>	
	<u>40 CFR Part 258, Appendix II</u>	

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

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.9., continued)

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

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

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

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

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

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

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

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

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

10. Water Quality and Leachate Reporting Requirements. The results of each ground water, surface water, and leachate sampling event conducted at the Southeast County Landfill to comply with the Specific Conditions of this permit shall be included in reports that provide the following:.

Electronic Data Deliverable (EDD) Portions of Report:

An EDD on compact disk or flash drive media readable by Microsoft Windows in a format consistent with the requirements for evaluating the data and importing it into the Department databases that includes both field sampling data and laboratory data. The requirements for preparation of the EDD can be obtained on the Department's website at:

<http://www.dep.state.fl.us/labs/dqa/adaptedms.htm>. The EDD shall provide the information required by Rules 62-701.510(9)(a)1 through 62-701.510(9)(a)7, F.A.C.

Hard Copy Portions of Report:

- Department Form 62-701.900(31) ["Water Quality Monitoring Certification"], certifying that the permittee has reviewed and approved the laboratory results;
- Certified laboratory report of results;
- Chain-of-custody documentation;
- Department SOP Form FD 9000-24 ["Ground Water Sampling Log"] for ground water sampling events; and,

The information required by Rules 62-701.510(9)(a)8 through 62-701.510(9)(a)10, F.A.C.

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

- a.** Specific Condition #E.4.b. - results of ground water "initial sampling events" shall be submitted **within 60 days from completion of laboratory analyses;**
- b.** Specific Condition #E.4.c. - results of ground water quarterly sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15th, April 15th, July 15th and October 15th of each year** for the periods Oct. 1-Dec. 31, Jan. 1-Mar. 31, Apr. 1-June 30, and July 1-Sep. 30, respectively;
- c.** Specific Condition #E.7. - results of ground water verification events shall be submitted **within 60 days from completion of laboratory analyses;**
- d.** Specific Condition #E.8.b. - results of surface water semi-annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15th and July 15th of each year** for the periods July 1-Dec. 31, and Jan. 1-June 30, respectively;
- e.** Specific Condition #E.9.a.(2) - results of leachate influent annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15th of each year** for the period Jan. 1-Dec. 31;
- f.** Specific Condition #E.9.a.(3) - results of leachate influent monthly sampling events shall be submitted **within 60 days from completion of laboratory analyses;**

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.10., continued)

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

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

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

The results shall be submitted to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926.

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

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

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

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

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

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

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

c. The permittee shall submit to the Division of Air Resources Management, Department of Environmental Protection, Mail Station 5500, 3900 Commonwealth Blvd., Tallahassee, FL 32399-3000, any amended design capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 60.757(a)(3) and (b).

2. Gas Monitoring and Control.

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

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

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

Measured During

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

Report Submitted By

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

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

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

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

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

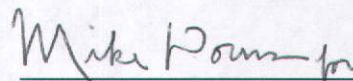
4. Gas Remediation. If the results of gas monitoring show that combustible gas concentrations exceed 25% of the LEL calibrated to methane in structures or 100% of the LEL calibrated to methane at the property boundary, the permittee shall immediately take all necessary steps to ensure protection of human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

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

1. **Closure Permit Requirements.** The landfill owner or operator shall submit a closure permit application to the Department, on DEP Form 62-701.900(1), for those portions of the landfill, which have reached design dimensions and grades. The permit application shall be submitted **at least 90 days prior** to the date when wastes will no longer be accepted for active portions of the landfill, as required by Rule 62-701.600(3), F.A.C., or in accordance with the conditions of an existing Department closure permit, whichever is sooner.
2. **Final Cover.** Portions of the landfill which have been filled with waste to the extent of designed dimensions shall be closed (shall receive final cover) within 180 days after reaching design dimensions, in accordance with Rule 62-701.500(7)(g), F.A.C. and all applicable requirements of Department rules.
3. **Long-Term Care Requirements.**
 - a. The owner or operator shall perform long-term care for the closed portions of the site in accordance with Rule 62-701.620, F.A.C., and the information submitted in the Section R of the Engineering Report.
 - b. Long-term care includes, but is not limited to, water quality, leachate and gas monitoring, maintenance of the final cover system, maintenance of the leachate collection and removal system, 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



Deborah A. Getzoff
District Director
Southwest District

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

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

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

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

DEP Form # 62-522.900(3)
Form Title <u>MONITOR WELL COMPLETION REPORT</u>
Effective Date _____
DEP Application No. _____ (Filled in by DEP)

MONITOR WELL COMPLETION REPORT

DATE: _____

INSTALLATION NAME: _____

DEP PERMIT NUMBER: _____ GMS NUMBER: _____

WELL NUMBER: _____ WELL NAME: _____

DESIGNATION: Background _____ Immediate _____ Compliance _____

LATITUDE/LONGITUDE: _____

AQUIFER MONITORED: _____

INSTALLATION METHOD: _____

INSTALLED BY: _____

TOTAL DEPTH: _____ (bls) DEPTH OF SCREEN: _____ (bls)

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

CASING DIAMETER: _____ CASING TYPE: _____

LENGTH OF CASING: _____ FILTER PACK MATERIAL: _____

TOP OF CASING ELEVATION (MSL): _____

GROUND SURFACE ELEVATION (MSL): _____

COMPLETION DATE: _____

DESCRIBE WELL DEVELOPMENT: _____

POST DEVELOPMENT WATER LEVEL ELEVATION (MSL): _____

DATE AND TIME MEASURED: _____

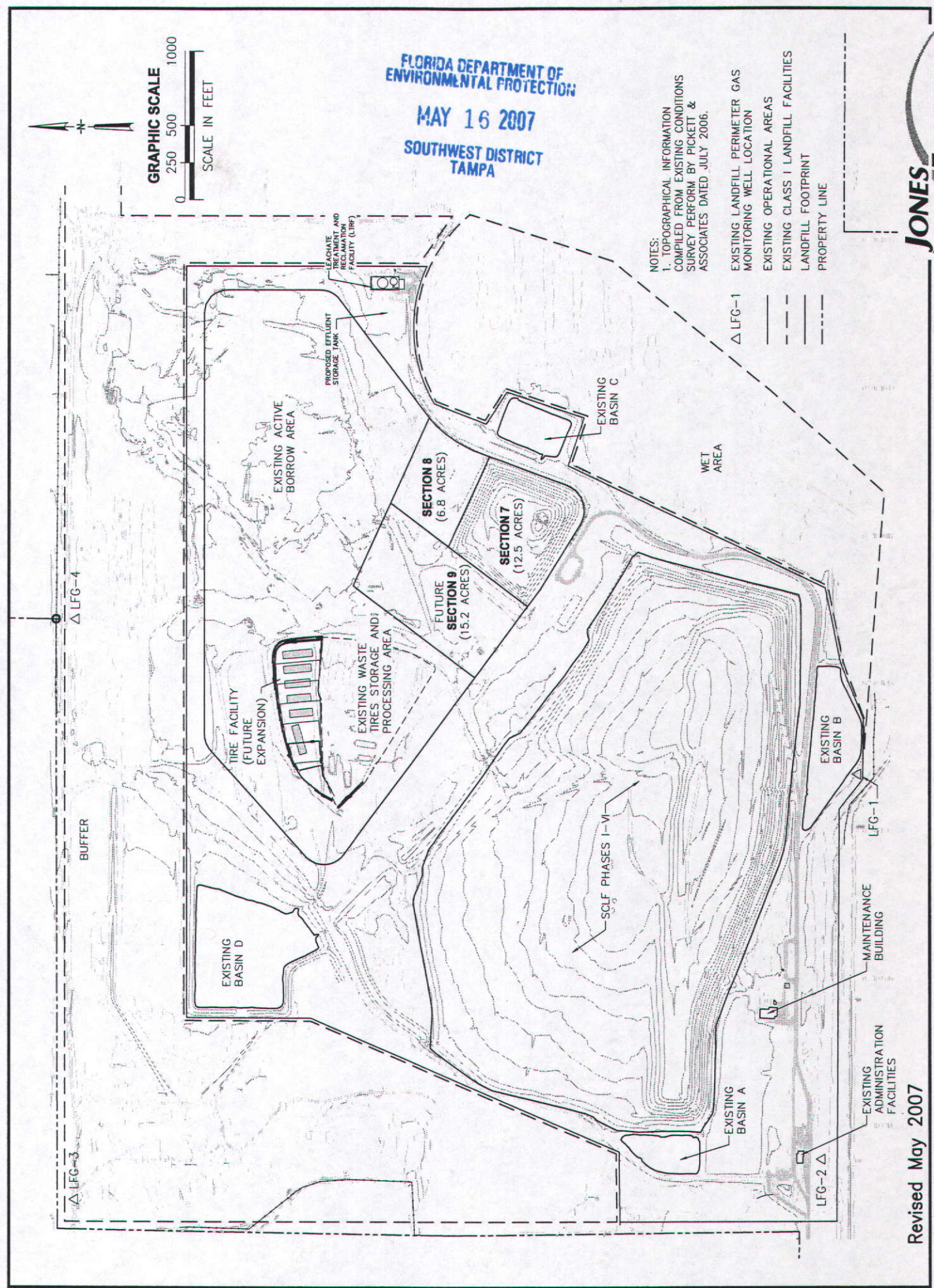
REMARKS: (soils information, stratigraphy, etc.): _____

REPORT PREPARED BY: _____

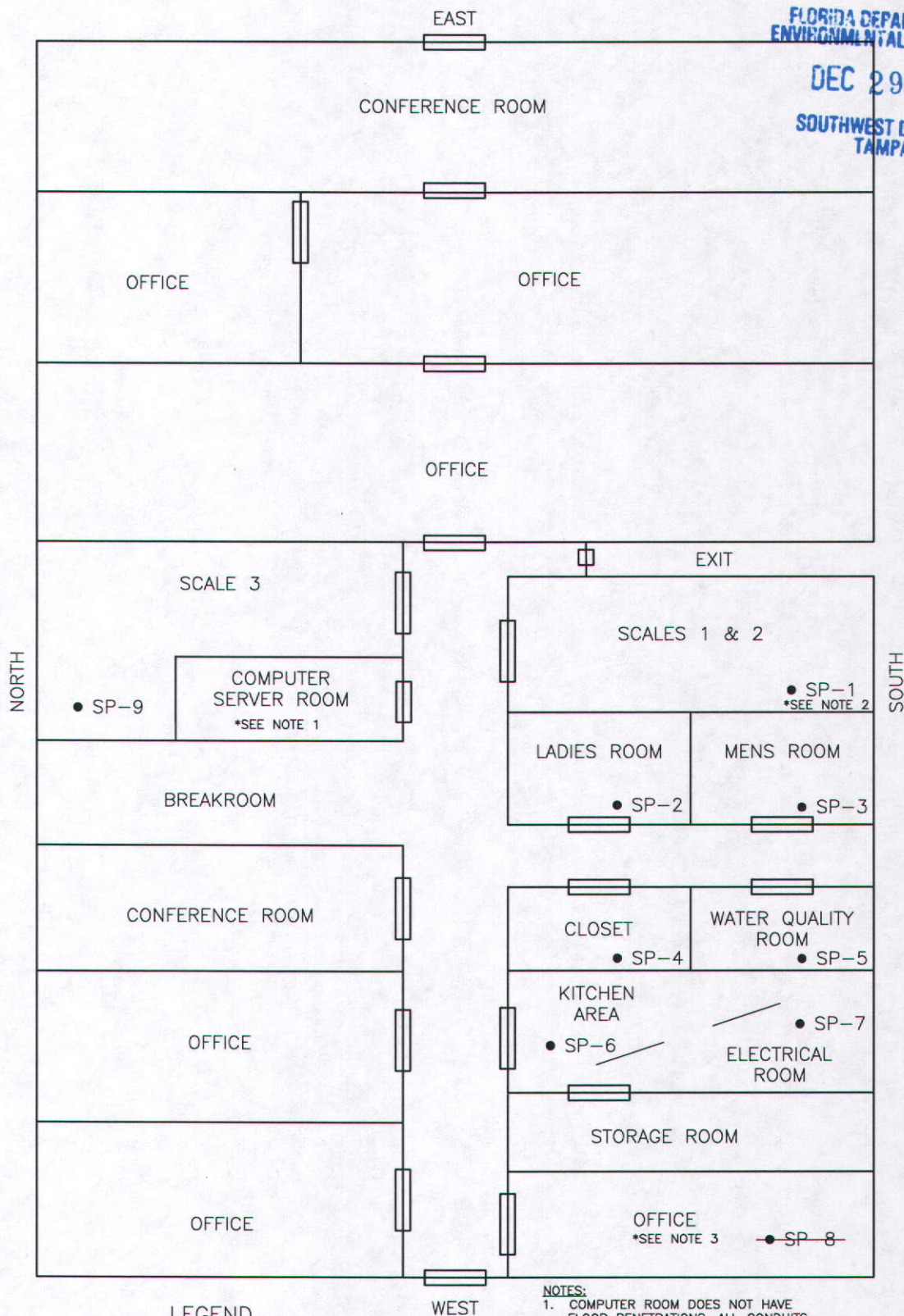
(name, company, phone number)

NOTE: PLEASE ATTACH BORING LOG.

(bls)= Below Land Surface



08449-030-01
 T:\08449 - Hillsborough\030-03 SOLF General Services\Task 1300 - Operations Permit Renewal\REVISED GAS MONITORING FIG\FIGURE HP200808 12/29/08 10:56am dwhite
 LAST SAVED: 12/29/2008 10:56 AM DWHITE



LEGEND
 • SP-1 INDICATE GAS SAMPLE POINT
 — DOORWAY

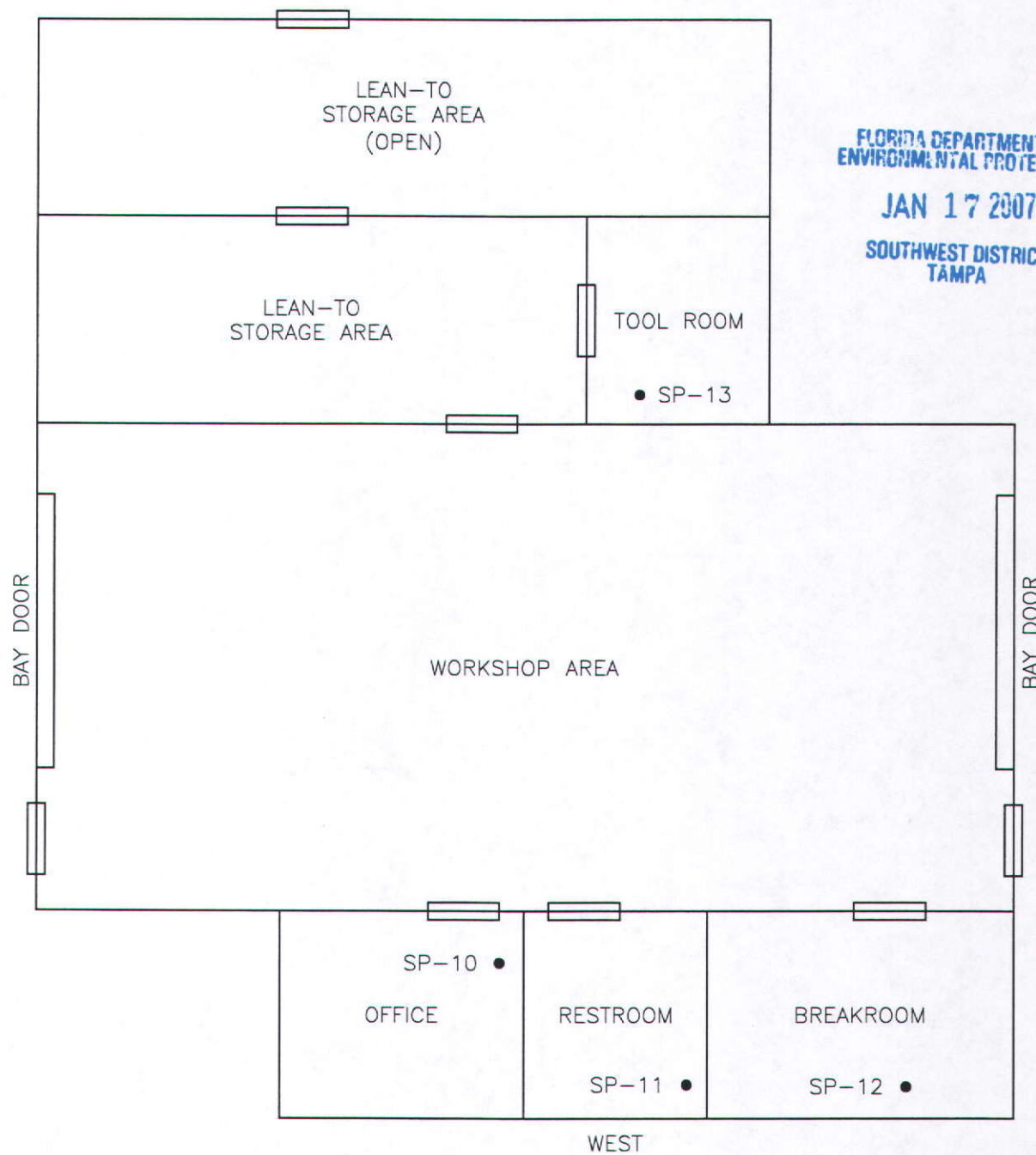
NOTES:
 1. COMPUTER ROOM DOES NOT HAVE FLOOR PENETRATIONS. ALL CONDUITS ENTER THE ROOM THROUGH THE CEILING. NO GAS SAMPLING REQUIRED.
 2. SAMPLE NEAR VACUUM TUBE PENETRATION IN FLOOR
 3. SAMPLE POINT SP-8 REMOVED FROM THIS OFFICE, BECAUSE THERE WAS NO FLOOR PENETRATION (REVISED DECEMBER 2008).

Revised December 2008

NOT TO SCALE

Figure H-2 Scalehouse / Administration Building LFG monitoring Points

JONES EDMUNDS

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

JAN 17 2007

SOUTHWEST DISTRICT
TAMPALEGEND

- SP-10 INDICATE GAS SAMPLE POINT
-  DOORWAY

Revised January 2007

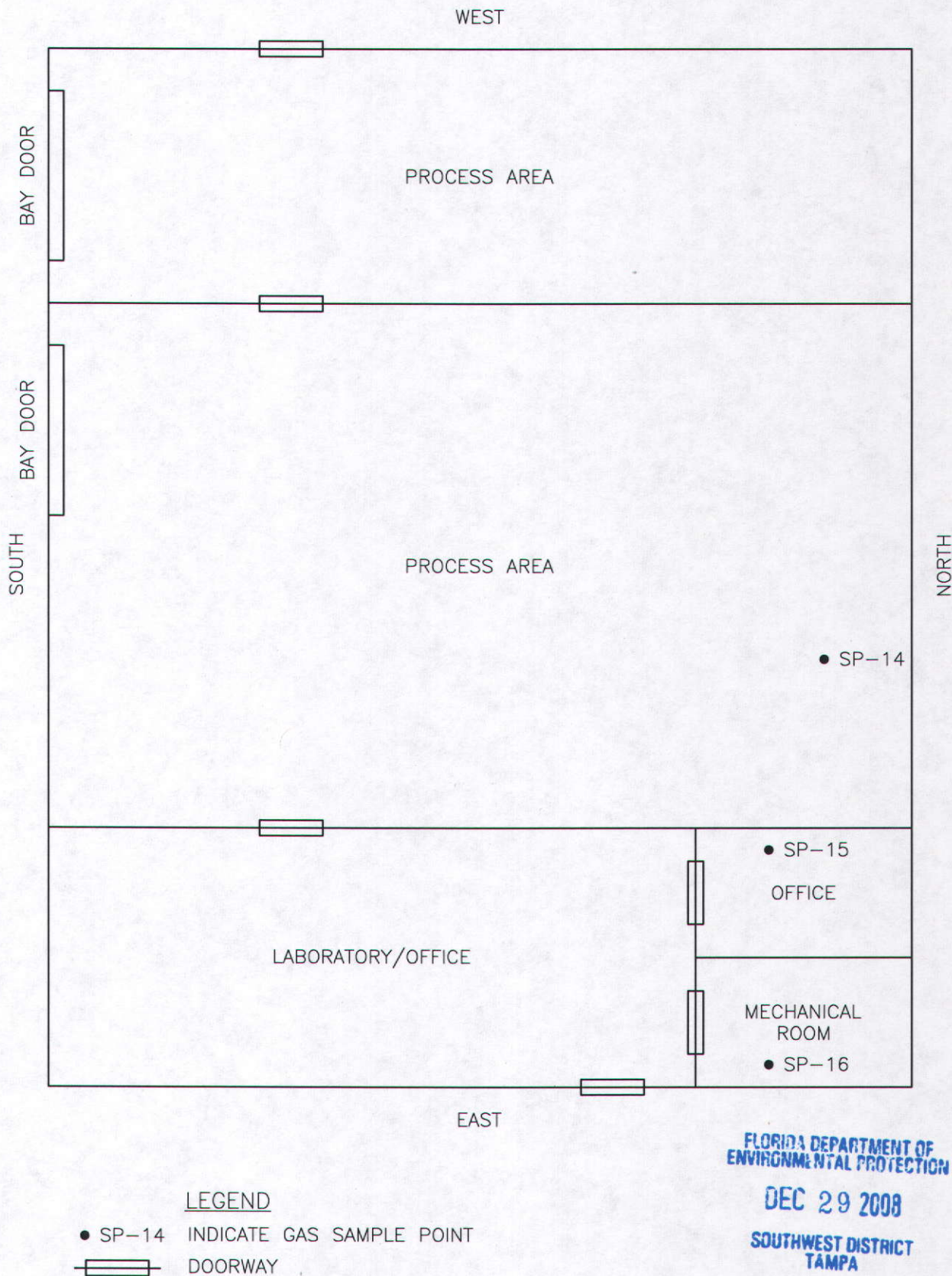
NOT TO SCALE

Figure H-3

Maintenance Building LFG Monitoring Points

JONES
EDMUNDS

T:\08449 - Hillsborough\030-03 SOLF General Services\Task 1300 - Operations Permit Renewal\REVISED GAS MONITORING FIG\FIGURE HP\HP0000 12/29/08 10:59am dwhite
08449-030-01
LAST SAVED: 12/29/2008 10:58 AM DWHITE



Revised December 2008

NOT TO SCALE

Figure H-4

LTRF Office LFG Monitoring Points

JONES
EDMUNDS