



Florida Department of Environmental Protection

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

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

CERTIFIED MAIL 7009 1410 0001 0092 0888
RETURN RECEIPT REQUESTED

April 15, 1011

NOTICE OF PERMIT

Ms. Teresa Carver, Solid Waste Director
Hardee County Solid Waste Department
685 Airport Road
Wachula, Fl. 33873

RE: Hardee County Class I Landfill Facility
Modification #38414-014-SO/MM to existing
Operation Permit 38414-011-SO/01, Hardee County
WACS ID# 40612

Dear Ms. Carver:

Attached is modified **Operation Permit 38414-011-SO/01**, issued pursuant to Section(s) 403.087(1), Florida Statutes. The following Conditions have been revised in modification #38414-014-SO/MM:

SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
#A.2.a.(2) / #A.2.a.(3) / #A.2.a.(4)	Existing	Amended	Revised permitting documents referenced
#A.2.b.	-	New	Additional and revised permitting documents referenced
#C.8.e.	Existing	Deleted	Remove reference to leveling
#E.3.	Existing	Amended	Referenced piezometers to be abandoned, revised figure, and well protection
#E.6.	Existing	Amended	Referred to amended Rule 62-532.500(5), F.A.C., effective October 7, 2010 regarding well abandonment
#E.10.	Existing	Amended	Referred to revised Department web site

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

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

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.

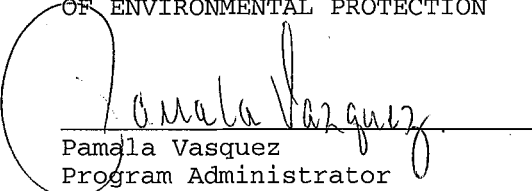
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard 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. Mediation is not available in this proceeding.

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

When the Order is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Blvd., Mail Station 35, Tallahassee, 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Hardee County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Pamela Vasquez
Program Administrator
Southwest District

PV/ndg

Attachment

Copies furnished to:

Hardee County Elected Officials Notification
Shane Fischer, P.E., sfischer@scsengineers.com
Richard Tedder, FDEP Tallahassee, (email)
Fred Wick, FDEP Tallahassee, (email)
(Permit Notebook)

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT was mailed to the addressee before the close of business on April 15, 2011.
(date stamp)

Other copies were transmitted electronically to the listed persons.

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


Clerk

4/15/2011
Date



Florida Department of Environmental Protection

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

Rick Scott
Governor

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Lt. Governor

Herschel T.
Vinyard, Jr.
Secretary

PERMITTEE

Hardee County Solid Waste
Department
685 Airport Road
Wauchula, Florida 33873
c/o Ms. Teresa Carver, Director

PERMIT/CERTIFICATION

WACS ID No: SWD/25/40612
Permit No: **38414-011-SO/01**
Date of Issue: **05/12/2008**
Expiration Date: **05/12/2013**
County: Hardee
Lat/Long: 27°34'17"N
81°46'58"W
Sec/Town/Rge: 35/33S/25E
Project: Hardee 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, and 62-701. The above named permittee is hereby authorized to perform the activities shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Department and made a part hereof and specifically described as follows:

To operate, monitor, and maintain a Class I landfill (approximately 17.5 acres), referred to as the Hardee County Landfill, and related ancillary facilities, subject to the specific and general conditions attached, for the management and disposal of solid waste, located at 685 Airport Road, east of the City of Wauchula, Hardee County, Florida. The specific conditions attached are for the operation of a:

1. Class I Landfill (Phase I & Phase II, Section 1 only)
2. Leachate storage tanks system
3. Yard Trash Processing Area
4. Scrap Metals and White Goods storage area
5. Household Hazardous Waste Collection Center (HHWCC)
6. and related appurtenances

Replaces Permit No.: 38414-007-SO

Includes permit modifications #38414-013-SO/MM, dated 04/23/2010,
and 38414-014-SO/MM, dated 04/15/2011.

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

General Information

Phase I:	
Disposal acres	12.5 acres (Phase I)
Lowest elevation	+72 feet NGVD (approximate top of clay)
Bottom liner design	In-situ clay bottom w/geosynthetic sidewalls
LCS design	perimeter rock/LCS piping
LDS design	none
Final elevation	+152 feet NGVD, including final cover
Slopes	3H:1V (N, S, E) and 3.5H:1V (W), 5% top slope
Phase II:	
Disposal acres	Approx. 5 acres (Phase II, Section I only) [ref. Permit 38414-008-SC/01, SC#A.2.a., Section S]
Lowest Bottom elevation of cell - NE corner of Phase II, Section I (Point 9C)	+79.2 ft. NGVD (pipe, pre-settlement), +78.66 ft. NGVD (pipe, post settlement) [ref. Permit 38414-008-SC/01, SC#A.2.d., Sheet 12 of 27; SC#A.2.a., Section J, <i>Settlement Calculations</i>] Bottom of GCL = +78.5 ft. NGVD [ref. Permit 38414-008-SC/01, SC#A.2.a., Section J, page 15]
Top elevation at final buildout (entire landfill-including cover)	Max. +159.5 feet NGVD [ref. Permit 38414-008-SC/01, SC#A.2.a., Part H.1; SC#A.2.d., Sheet 14 of 27] Max. +132.1 feet NGVD Phase II, Section I, Fill Sequence 7 [SC#A.2.b(1).Sheet 17]
Side slopes max.	3H:1V [ref. Permit 38414-008-SC/01, SC#A.2.d., Sheet 14 16, and 17 of 27]
Liner system (bottom to top)	Groundwater interceptor layer; 12-inch compacted subgrade, geosynthetic clay liner (GCL) (5×10^{-9} cm/sec), 60 mil textured HDPE geomembrane, triplanar geocomposite (geotextile/geonet/geotextile), 60 mil textured HDPE geomembrane, biplanar geocomposite (geotextile/geonet/geotextile), 2-foot drainage sand [ref. Permit 38414-008-SC/01, SC#A.2.d., Detail I/Sheet 24 of 27]
LCS drainage system	Drainage/protective sand $\geq 1 \times 10^{-3}$ cm/sec [ref. Permit 38414-008-SC/01, SC#A.2.d., Detail I/Sheet 24 of 27; Spec. 02220-2.06] Two trenches draining from west to east. 8-inch SDR 11 HDPE perforated LCS piping [ref. Permit 38414-008-SC/01, SC#A.2.d., Section A, Sheet 23 of 27, Detail 5, Sheet 24 of 27] LCS pipes drain to sumps on east side, then pumped through side slope risers through force main to lift station; from lift station through existing HDPE force main to tanks [ref. Permit 38414-008-SC/01, SC#A.2.d., Sheets 9 and 19 of 27]
LDS drainage system	Triplanar geocomposite to sump, then same as LCS
Action leakage rate (ALR)	260 gal/ac/day [ref. Permit 38414-008-SC/01, SC#A.2.a., Part H.2.c.4, page H-14]
Design life	5 years [ref. Permit 38414-008-SC/01, Appl. Form #A.14.],
Leachate storage tanks	Two epoxy painted steel, open top tanks; approximately 79,000 gallons each; secondary containment: tank in a tank nominal diameter= 30 feet, 16 ft tall

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 Phase I and Phase II, Section I of the Class I landfill, leachate storage tanks system, 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 SCS Engineers [SCS], unless otherwise noted, as follows:

a. Operation Permit Modification to Include Phase II Section I Landfill Expansion, (two 3-ring binders) dated June 4, 2007 (received June 5, 2007), prepared by SCS, as revised, replaced or amended (information inserted into original) dated and received October 1, 2007, January 30, 2008, February 15, 2008, and dated March 10, 2008 (received March 11, 2008). This information includes, but is not limited to:

- 1) Engineering Report, Sections A Through S
- 2) Operations Plan, January 30, 2008 [Attachment L-1] (replacement pages as listed in SC A.2.b. below)
- 3) Groundwater Monitoring Plan, March 10, 2008 [Section M, Attachment M-1] (replacement pages as listed in SC# A.2.b., below)
- 4) Plan Sheets titled, Hardee County Landfill Modified Operations Drawings To Include Phase II Section I (26 sheets) dated May 2007 (received June 5, 2007), including revised Drawings 22 through 24 of 26, received October 1, 2007, and revised Drawings 1 of 26, 3 of 26, 9 through 17 of 26, and 21 of 26, received January 30, 2008 (inserted into original). (revised as listed in SC# A.2.b(1) below)

Amended 04/15/2011.

b. Request for Minor Operation Permit Modification, (3-ring binder) dated June 10, 2010 (received June 19, 2010), prepared by SCS, as revised, replaced or amended (information inserted into original) dated and received August 16, 2010 and January 18, 2011. This information includes, but is not limited to:

- 1) Plan sheets titled, Hardee County Landfill Modified Operations Drawings to Include Phase II Section 1, (7 sheets, inserted into original drawings above) dated and received January 18, 2011, including sheets 1,15,16,17,24 & 25.

New 04/15/2011.

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.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

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

b. This permit authorizes the operation of Phase I and Phase II, Section I, Fill Sequence Nos. 1 through 7, the on-site leachate storage tanks system, and related ancillary facilities Operations Drawings [see SC#A.2.a(4), Sheets 16,17,24 and 25].

Amended 04/15/2011.

~~e. This permit does not authorize the operation of Phase II, Section I, Fill Sequence Nos. 6 and 7, as depicted on the Operation Drawings [see SC#A.2.a(4), Sheets 16, 17, 24, and 25].~~

Deleted 04/15/2011.

4. **Permit Renewal.** No later than November 1, 2012, 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, and revised (not inflation-adjusted) financial assurance cost estimates.

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

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

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

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

Amended 04/23/2010.

9. **Prohibitions.**

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

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

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

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

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

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

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

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

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

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

SPECIFIC CONDITIONS: PART C - Operation Requirements

1. Facility Operation Requirements.

a. The permittee shall operate this facility in accordance with Rule 62-701.500, F.A.C., the Operation Drawings [ref.SC#A.2.a(4)], Operations Plan [ref.SC#A.2.a(2)], and any other applicable requirements.

1) Operation of the Materials Recovery Facility shall be in accordance with Chapter 62-701, F.A.C., and Operation Permit 126620-002-SO/31 (including modifications, if any), or its successors [ref.Op. Plan, Sec L.1.d].

2) Operation of the Waste Tire Facility shall be in accordance with Chapters 62-701 and 62-711, F.A.C., and Operation Permit 129318-003-WT/05 (including modifications, if any), or its successors [ref.Op. Plan, Sec L.1.e].

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. The permittee shall maintain a minimum disposal setback of 7.5 feet from the edge of the liner marker posts [ref. SC#A.2.a(4), Sheet 26, Details 1-4].

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

e. The Phase II, Section 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 **daily on operating days**. In the event that objectionable odors are detected at the property boundary, the owner or operator shall abate the odors in accordance with 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**. 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 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.2.c.4]. Trenches cut into the waste shall not be used to extinguish fires without prior Department approval.

k. Fuels and fluids shall be added to facility equipment within the onsite maintenance building [ref. Op. Plan, Sec.L.1.i]. 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.2.a 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.d]. Training of spotters shall be in accordance with the Section L.2.a 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, additional trained spotters shall be required.

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

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.3 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.
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 impoundments, 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.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

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 **immediately (within 24 hours)** notify the Department explaining such occurrence and remedial measures to be taken, method to prevent reoccurrence, and time needed for repairs. Written, detailed notification shall be submitted to the Department within seven (7) days following the occurrence.

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

d. In the event that the stormwater or leachate management systems 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 information in Sections L.2.k and Section L.8 of the Operations Plan, and other applicable Department rules.

b. Leachate, which has accumulated in low areas within the disposal area shall be removed from the disposal area at least **daily**.

c. Leachate Disposal.

1) Leachate shall be hauled offsite for disposal at an appropriately permitted wastewater treatment facility (WWTP). 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.

2) In the event that the primary leachate disposal facility becomes unable or unwilling to accept leachate for disposal, **within three (3) days** of the cessation of leachate acceptance by the WWTP, 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 WWTP, or in accordance with an alternate schedule approved by the Department.

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 semi-annually by performing a flow test on each pump. Pumps showing reduced performance shall be removed for maintenance and repair, and a replacement pump installed if required for continued compliance. Documentation of all inspections shall be kept on file at the facility, and provided to the Department upon request.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

d. Leachate Quantities.

- 1) Leachate quantities shall be measured and recorded in accordance with the procedures specified in Section L.8.f of the Operations Plan.
- 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 [ref. Op. Plan, Sec. L.8.g].
- 3) Leachate generation reports shall be compiled monthly and submitted to the Department quarterly or more frequently if requested, by **January 15th, April 15th, July 15th and October 15th** each year. Leachate generation reports shall include precipitation amounts greater than one tenth of an inch, the number of open, intermediate and closed acres, and the quantities of leachate collected, stored or impounded, recirculated, and hauled off-site to a wastewater treatment facility. The reports shall include quantities for the leachate collection and leakage detection systems separately. Quantities of leakage from the leachate surface impoundments shall be recorded separately from the disposal areas' leakage.

e. Phase I Leachate Levels.

- 1) Leachate levels in Phase I shall be maintained lower than the top of the perimeter liner and an inward gradient shall be maintained between the groundwater levels outside the lined area and the leachate levels inside the lined area [ref. Op. Plan, Sec. L.8.a.1].

~~2) Leachate levels in the Phase I piezometers listed in Section L.8.a.1 of the Operations Plan and ground water levels in the groundwater monitoring wells and piezometers listed in Section L.8.a.1 of the Operations Plan shall be measured monthly. Based on the leachate levels obtained, leachate removal rates and/or system inspection and maintenance shall be adjusted as indicated in Section L.8.a.1 of the Operations Plan.~~
Deleted 04/15/2011.

f. Leachate Leakage Action Rates.

- 1) Leakage into the leakage detection systems (LDS) in Phase II, Section 1 should not exceed 260 gal/ac/day [ref. Permit 38414-008-SC/01, SC#A.2.a., Part H.2.c.4, page H-14], based on EPA recommended action leakage rates published in the Federal Register/Vol. 57 No. 19/ Wednesday January 29, 1992/Rules and Regulations.
- 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)

g. Leachate Collection System Inspections/Maintenance.

1) The Phase I leachate collection manholes shall be opened and inspected **at least monthly** for sediment buildup. Sediment buildup that may impede the flow of leachate shall be removed via vacuum truck and the manhole shall be re-inspected [ref. Op. Plan, Sec. L.2.k].

2) The Phase II, Section I 24-inch leachate riser pipes shall be inspected **at least annually** for sediment buildup. Sediment buildup that may impede the flow of leachate shall be removed via vacuum truck and the riser pipe shall be re-inspected [ref. Op. Plan, Sec. L.2.k].

3) **No later than August 1, 2012**, the entire leachate collection and removal system (Phase I and Phase II, Section I) shall be water pressure cleaned and video inspected to verify adequate performance [ref. Op. Plan, Secs. L.2.k & L.8.h]. 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 November 1, 2012** to demonstrate adequate performance.

h. Leachate Storage Tanks.

1) The leachate storage tanks shall be inspected as required by Rule 62-701.400(6)(c)9., F.A.C., and in accordance with Section L.2.k of the Operations Plan. The tank exterior, cathodic protection system, overflow protection system, containment area, and other leachate storage system appurtenances shall be inspected **at least weekly** for leaks, corrosion or other damage. The interior of the tanks shall be inspected when drained or at least every three years, and the inspection report shall be provided to the Department [ref. Op. Plan, Sec. L.2.k].

2) In the event of failure of the tank overflow protection system (i.e. signal alarms and pump shut-off failure), the back-up contingency plan procedures specified in Section L.8.b of the Operations Plan shall be implemented.

i. Groundwater Interceptor System.

1) The groundwater interceptor system, including the pump station, pump on/off levels, and the stormwater swale adjacent to the groundwater interceptor system pump station shall be opened and/or inspected **at least monthly** to evaluate the function of the system [see. Op. Plan, Sec. L.2.l].

2) In the event that the pumps in the groundwater interceptor system pump station (Manhole #10) become inoperable, temporary submersible pumps shall be operated to pump groundwater from the pump station to the rip rap lined discharge point adjacent to the pump station [ref. Op. Plan, Sec. L.8.b].

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

3) **No later than August 1, 2012**, the entire groundwater interceptor system (Phase I and Phase II, Section I) shall be water pressure cleaned and video inspected to verify adequate performance [see Op. Plan, Sec. L.2.i]. 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 November 1, 2012** to demonstrate adequate performance.

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.1 and L.2.d of the Operation 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. Household hazardous waste (HHW) management. HHW shall be managed as described in the Operations Plan [ref. Op. Plan, Secs. L.1.h and L.2.d.6], and the following conditions:

- 1) Liquids shall not be discharged outside of the containment curbing of the HHW Collection Center (HHWCC).
- 2) No air-drying of paints shall take place at this facility.
- 3) Materials shall be stored within containment areas at all times.
- 4) Records on the quantities of HHW collected and removed for disposal shall be compiled quarterly and maintained at the facility for Department review upon request.

c. White Goods and Scrap Metal. The white goods and scrap metal shall be stored within the designated area shown on Sheet 4 of 26 of the Operation Drawings and managed as described in the Operations Plan [ref. Op. Plan, Secs. L.1.g & L.2.d.6]. 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. Lawn mowers shall not be accepted at the facility unless fuels and oils have been removed prior to delivery. A maximum of 400 tons of scrap metal (including no more than 200 white goods) may be stored at the site at any time, and shall be removed at least **semi-annually (every 6 months)** [ref. Op. Plan, Sec. L.1.g].

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

d. C&D Debris. Construction and demolition debris may be disposed within the lined, Class I disposal cell as described in Section L.2.d.6 of the Operations Plan, subject to the following:

- 1) The "select waste" which is the first layer of waste placed in new, lined disposal cells shall not contain C&D debris or other large items which may damage the liner system.
- 2) C&D debris shall be compacted and sloped in a manner consistent with the final design grades and elevations of the Class I cell.
- 3) C&D debris that is mixed or commingled with non-C&D debris shall be covered daily and managed as Class I waste.

e. Yard Waste/Land Clearing Debris. Yard waste/Land clearing debris and clean wood shall not be accepted at the facility for disposal in the Class I landfill [ref. Op. Plan, Sec.L.2.d.7]. The management of yard trash/landclearing debris in the designated area of the facility [ref. Op. Plan, Fig. 1.] shall be in accordance with the procedures provided in Section L.1.f of the Operations Plan and in accordance with the requirement of Rule 62-709.320, F.A.C.

- 1) Monthly records of incoming and outgoing material shall be kept on site for at least three years.
- 2) An Annual Report for a Yard Trash Processing Facility, DEP Form 62-709.320(7)(b) (attached), shall be submitted by April 1 of each year.

f. 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 Collection Center Permit No. 129318-003-WT/05 (including modifications, if any), or its successors.

g. Asbestos Containing Materials. Asbestos containing materials accepted at the facility shall be managed in accordance with the procedures in Section L.2.d.2 and Appendix G of the Operations Plan.

h. Contaminated Soil. Contaminated soil accepted at the facility shall be managed in accordance with the procedures in Section L.2.d.3 and Appendix H of the Operations Plan.

i. 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 generated by residents only, shall be accepted, stored, and managed at the HHWCC [ref. Op. Plan, Sec.L.2.d.4]. A maximum of 700 gallons of used oil may be stored at the HHWCC at any time, and shall be removed at least **quarterly (every 3 months)** [ref. Op. Plan, Sec. L.1.h].

j. 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.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

- k. Lead Acid Batteries. Lead acid batteries shall not be accepted at the facility for disposal. Lead acid batteries shall be stored and managed at the HHWCC in accordance with the procedures in Section L.2.d.6 of the Operations Plan. A maximum of 140 batteries may be stored at the HHWCC at any time, and shall be removed at least **quarterly (every 3 months)** [ref. Op. Plan, Sec. L.1.h].
- l. Paints. Paints containers with free liquids shall not be accepted at the facility for disposal. Paint containers removed from the waste streams shall be stored and managed at the HHWCC in accordance with the procedures in Section L.2.d.6 of the Operations Plan. A maximum of 100 gallons of paint may be stored at the HHWCC at any time, and shall be removed at least **quarterly (every 3 months)** [ref. Op. Plan, Sec. L.1.h].
- m. Electronic Wastes. Electronic wastes are accepted at the MRF facility. Electronic wastes removed from the waste streams shall be stored and managed at the MRF or HHWCC in accordance with the procedures in Section L.2.d.6 of the Operations Plan.
- n. Agricultural Pesticide Containers. Only containers with no pesticide residue that have been thoroughly rinsed and inspected by landfill personnel shall be accepted at the facility for disposal [ref. Op. Plan, Sec. L.2.d.6].
- o. Biomedical Waste. Biomedical waste shall not be accepted at the facility [ref. Op. Plan, Sec. L.2.d.8]. Materials collected as part of the County's Household Sharps Collection Program are temporarily stored in a designated room at the on-site County Animal Control Kennel in accordance with the Appendix I of the Operations Plan.
- p. Shredded Waste. Shredded waste shall not be accepted at the facility [ref. Eng. Report, Sec. N.2].
- 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 due to inadequate personnel, additional trained spotters shall be required.
 - b. A trained spotter shall be positioned at the working face to inspect each load from ground level (i.e. while off the equipment) as it is being received, unloaded and as it is spread and compacted [ref. Op. Plan, Sec. L.2.d].
- 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. Initial cover shall be applied and maintained at the end of each working day in the Class I landfill in accordance with Rule 62-701.500(7)(e), F.A.C., so as to protect the public health and welfare.
 - 1) All solid waste disposed of in the Class I disposal area must be covered with at least 6 inches of compacted earth or other suitable material as approved by the Department (in writing), at the end of each working day [ref. Op. Plan, Sec. L.7.f].

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

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

1) For those areas where solid waste will be deposited on the working face within 18 hours, initial cover may consist of a temporary tarpaulin cover [ref. Op. Plan, Sec. L.7.f].

c. 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].

d. 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].

e. Processed yard waste or clean wood may be spread over initial or intermediate soil cover for stabilization and erosion control measures [ref. Op. Plan, Secs. L.7.f & g].

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. 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 Operation Drawings [ref. SC#A.2.a.(4), Sheets 11 through 15 and Sheets 22, 23, & 25], and as described in the Operations Plan [ref. Op. Plan, Secs. L.2.g & L.7.h], or as otherwise approved in writing by the Department.

b. Baled waste at the working face shall be stacked three bales high across the working face and positioned so that their joints are offset to allow bales to interlock [ref. Op. Plan, Sec. L.7.a].

c. Loose waste at the working face shall be spread in 2-foot layers and compacted to a 2-foot compacted thickness before applying the next layer of waste. Cells shall be filled in lifts of an average height of 10 feet. Slopes shall be maintained no greater (steeper) than 3H:1V [ref. Op. Plan, Sec. L.7.c].

d. The placement of both baled and loose waste together at the working face shall be in accordance with the procedures in Section L.7.a of the Operations Plan.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

e. 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.

f. 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 April 15th 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 permit 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 underlined (underlined) or a similar method may be used) and each page numbered with the document title and date of revision.
Amended 04/23/2010.

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.;

SPECIFIC CONDITIONS: PART D - Recordkeeping

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

- 8) Water quality and gas monitoring reports;
- 9) Monthly Phase I leachate and groundwater level gradient readings and documentation of any subsequent corrective actions [ref. SC#C.8.e.(2)];
- 10) Quarterly records on the quantities of HHW collected and removed for disposal from the HHW Collection Center [ref. SC#C.9.b.(4)];
- 11) Monthly records of incoming and outgoing yard trash [ref. SC#C.9.e.(1)] and;
- 12) Copies of Annual Report for a Yard Trash Processing Facility, DEP Form 62-709.320(7)(b), submitted by April 1 of each year. [ref. SC#C.9.e].

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 shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 (revised March 31, 2008, effective December 3, 2008) [or as replaced by successor SOPs], as referenced in Rule 62-160.210(1), F.A.C. All laboratory analyses done in connection with the facility's Water Quality Monitoring Plan shall be conducted by firms that hold certificates from the Department of Health Environmental Laboratory Certification Program under Chapter 64E-1, F.A.C., as referenced in Rule 62-160.300(1), F.A.C. The SOPs utilized and the laboratory's list of certified test methods and analytes must specifically address the types of sampling and analytical work that are required by the permit and shall be implemented by all persons performing sample collection or analysis related to this permit. Alternate field procedures and laboratory methods may be used if approved according to the requirements of Rules 62-160.220 and 62-160.330, F.A.C., respectively.
Amended 04/23/2010.

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

2. Zone of Discharge.

a. The zone of discharge for this site shall extend horizontally 100 feet from the limits of the landfill liner (all active, inactive and closed 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 disposal areas.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

3. Ground Water Monitor Well Locations. The ground water monitoring system for the combined Phase I and Phase II, Section I footprint is designed and constructed in accordance with the document entitled "Revised Ground Water Monitoring Plan, Attachment M-1 to the Construction Permit Application for Hardee County Landfill Expansion," prepared by SCS Engineers, revised March 10, 2008 and January 11, 2011 [ref.SC#A.2.a.(3)]. The ground water monitor wells and piezometers are located on Figure M-1, "Hardee County Solid Waste, Ground Water, Surface Water, and Leachate Monitoring Location Points," prepared by SCS Engineers, received January 18, 2011 (**attached**), as follow:

Well No.	WACS Testsite #	Aquifer	Designation	Location
MW-1	296	Surficial	Background	See Figure M-1
MW-2	297	Surficial	Detection	↓
MW-4	299	Surficial	Background	↓
MW-5	300	Surficial	Detection	↓
MW-8	19255	Surficial	Detection	↓
MW-10R	22930	Surficial	Detection	↓
MW-11	21882	Surficial	Detection	↓
MW-12R	22931	Surficial	Detection	↓
MW-3	298	Surficial	Piezometer (GW)	See Figure M-1
MW-6	301	Surficial	Piezometer (GW)	↓
MW-7	302	Surficial	Piezometer (GW)	↓
P-7	N/A	Surficial	Piezometer (GW)	↓
P-8	N/A	Surficial	Piezometer (GW)	↓
P-11	N/A	Surficial	Piezometer (GW)	↓
P-12	N/A	Surficial	Piezometer (GW)	↓
P-13	N/A	Surficial	Piezometer (GW)	↓
P-14	N/A	Surficial	Piezometer (GW)	↓
P-17	N/A	Surficial	Piezometer (GW)	↓
P-18	N/A	Surficial	Piezometer (GW)	↓
P-19	N/A	Surficial	Piezometer (GW)	↓
P-20	N/A	Surficial	Piezometer (GW)	↓
P-21	N/A	Surficial	Piezometer (GW)	↓
P-22	N/A	Surficial	Piezometer (GW)	↓
P-23	N/A	Surficial	Piezometer (GW)	↓
P-1 *	N/A	N/A	Piezometer (leachate)	See Figure M-1
P-2 *	N/A	N/A	Piezometer (leachate)	↓
P-9 *	N/A	N/A	Piezometer (leachate)	↓
P-10 *	N/A	N/A	Piezometer (leachate)	↓
P-15 *	N/A	N/A	Piezometer (leachate)	↓
P-16A *	N/A	N/A	Piezometer (leachate)	↓

Piezometer (GW) = ground water elevation measuring location

Piezometer (leachate) = leachate elevation measuring location

* = leachate piezometers were abandoned as part of the closure construction activities on the Phase I area associated with permit #38414-012-SF/01; documentation of piezometer abandonment in accordance with Specific Condition #E.6., shall be submitted as part of the Certification of Construction Completion required by Specific Condition #B.2., of permit #38414-012-SF/01.

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

Amended 04/15/2011.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

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

a. Ground water levels shall be measured at all active monitor wells and piezometers listed in Specific Condition #E.3., **monthly during the period from June 2008 to May 2009, and quarterly thereafter.** Water table surface elevation contour maps of the surficial aquifer shall be prepared for each set of water level measurements using data reported for each monitor well and piezometer, and at staff gauges #SG-1 and #SG-2 (SC#E.8.a.). 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 evaluation reports (SC#E.11.a., and SC#E.11.b.).

b. Ground water levels shall be measured at all active monitor wells and piezometers listed in Specific Condition #E.3., during all sampling events described in Specific Conditions #E.4.c., and #E.4.d., to a precision of 0.01 foot. The ground water surface contour maps shall be prepared for each sampling event to include the water surface elevations (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer.
Amended 04/23/2010.

c. An "initial sampling event" shall be conducted **within 7 days of installation and development** of all new and replacement monitor wells 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	Sodium
Nitrate	
Total dissolved solids (TDS)	
Those parameters listed in	
<u>40 CFR Part 258, Appendix II</u>	

Results of "initial sampling events" shall be submitted **within 30 days of receipt** from the analytical laboratory.

d. All background and detection wells listed in Specific Condition #E.3., shall be sampled **semi-annually** for analysis of the following parameters:

Field parameters

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

Laboratory parameters

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

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

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

a. Prior to construction of all new or replacement wells or piezometers the permittee shall request and receive Department approval of a minor permit modification.

b. Construction details (record drawings) for all new or replacement wells and piezometers shall be provided to the Department's Southwest District Office on Department Form #62-701.900(30), Monitor Well Completion Form (**attached**).
Amended 04/23/2010.

c. Within one week of well completion and development, each new or replacement monitor well shall be sampled for the parameters listed in Specific Condition #E.4.c., to comply with the requirements of Rules 62-701.510(8)(a) and (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 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.
Amended 04/23/2010.

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

Amended 04/15/2011.

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 within 14 days of this finding. Upon notification by the Department, the permittee shall initiate evaluation monitoring as described in Rules 62-701.510(7)(a) and 62-701.510(7)(b), F.A.C. If monitoring parameters are detected at concentrations significantly above background water quality, and exceed the Department's ground water quality standards or minimum criteria in any compliance well, the Permittee shall submit a preventive measures plan and initiate corrective action as described in Rule 62-701.510(7)(c), F.A.C.
Amended 04/23/2010.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

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

a. Surface water levels shall be measured at staff gauges #SG-1 and #SG-2 (located in the ponds east of the Phase I footprint) **monthly during the period from June 2008 to May 2009, and quarterly thereafter.** Water table surface elevation contour maps of the surficial aquifer shall be prepared for each set of water level measurements using data reported for each monitor well and piezometer (SC#E.4.a.), and these staff gauges. 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 evaluation reports (SC#E.11.a., and SC#E.11.b.).

b. Surface water samples shall be collected in the storm water pond in proximity to location SW-2 (WACS Testsite ID #21062) as shown on Figure M-2, "Hardee County Solid Waste, Ground Water Monitoring Plan Sampling Locations Map," prepared by SCS Engineers, received March 11, 2008 (**attached**). During periods of discharge from the storm water pond, surface water samples shall be collected at the discharge structure; during periods of no discharge from the storm water pond, surface water samples shall be collected as close as possible to the discharge structure within the pond. In accordance with Rule 62-701.510(4)(c), F.A.C., this surface water monitoring station [i.e., the discharge structure] shall be marked and its position shall be determined by a registered Florida land surveyor in degrees, minutes and seconds of latitude and longitude.

c. Semi-annual* surface water sampling shall be at the location described in SC#E.8.b., in accordance with Rule 62-701.510(6)(e), F.A.C., for analysis of the following parameters:

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

* Samples shall be collected in proximity to SW-2 during the semi-annual periods (January 1 to June 30, and July 1 to December 31 of each year) unless the storm water pond is dry for the entire semi-annual period. In this case, the report submitted for that period shall include a copy of the daily log (excluding Sundays) maintained by Hardee County of observations at SW-2 to document the absence of water in the storm water pond and the inability to collect a surface water sample.

Amended 04/23/2010.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

9. **Leachate Sampling.** Representative leachate grab samples (unfiltered) shall be collected from each of the leachate pump stations as described in Specific Condition #E.9.a., for the sampling events described in Specific Conditions #E.9.b., and #E.9.c. Leachate sampling shall be conducted in accordance with the Department's SOPs to comply with the requirements of Rules 62-701.510(5) and 62-701.510(6)(c), F.A.C.

a. Leachate grab samples shall be collected from the leachate collection system at the locations shown on Figure M-2, "Hardee County Solid Waste, Ground Water Monitoring Plan Sampling Locations Map," prepared by SCS Engineers, received March 11, 2008 (**attached**), as follow:

<u>Leachate Sampling Location #</u>	<u>WACS Testsite #</u>	<u>Location</u>
Manhole 9 (Phase I)	21061	See Figure M-2
Phase II leachate collection/ Detection riser	22932	↓

b. **Annual** leachate sampling shall be conducted for analysis of the following parameters:

Field parameters

Specific conductivity
pH
Dissolved oxygen
Colors and sheens (by obs.)

Laboratory parameters

Total ammonia - N
Total alkalinity (as mg/L CaCO₃)
Chlorides
Nitrate
Total dissolved solids (TDS)
Biochemical oxygen demand (BOD₅)
Chemical oxygen demand (COD)
Those parameters listed in
40 CFR Part 258, **Appendix II**

Iron
Mercury
Sodium

Amended 04/23/2010.

c. If the leachate analyses indicate that a contaminant listed 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 sampling at the locations listed in Specific Condition #E.9.a., for analysis of the parameters listed in Specific Condition #E.9.b. Results of the monthly leachate sampling shall be submitted to the Department **within 30 days of receipt from the analytical laboratory**. If in any three consecutive months no listed contaminant is found to exceed the regulatory level, the permittee may discontinue the monthly sampling and analysis and return to a routine sampling schedule.

10. **Water Quality and Leachate Reporting Requirements.** The results of each water quality and leachate sampling event conducted at the facility to comply with the Specific Conditions of this permit shall be included in Electronic Data Deliverable (EDD) reports that include:

a. Required water quality monitoring reports and all analytical results shall be submitted electronically. Water quality monitoring reports shall be submitted in Adobe pdf file format. The water quality EDD shall be provided to the Department in an electronic format consistent with requirements for importing the data into the Department's databases as summarized on the Department's web site at: <http://www.dep.state.fl.us/waste/categories/shw/pages/ADaPT.htm>. Water quality monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall provide the information required by Rules 62-701.510(9)(a)1 through 62-701.510(9)(a)10, F.A.C., including:

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

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

1. Cover letter;
2. Summary of exceedances and recommendations;
3. Ground water contour maps;
4. Chain of custody forms;
5. Water levels, water elevation table;
6. Water Quality Monitoring Certification, using Department Form #62-701.900(31);
7. Appropriate sampling information on Department Form #FD 9000-24 (DEP-SOP-001/01); and,
8. Laboratory and Field data and error logs, as applicable. [In addition to the Adobe pdf file format, this data and associated error logs shall be submitted in an ADaPT-compatible, comma separated text file format.]

The reports of results shall be submitted to:

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

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

1. Specific Condition #E.4.c. - results of ground water "initial sampling events" shall be submitted **within 30 days from completion of laboratory analyses;**
2. Specific Condition #E.4.d. - results of ground water routine **semi-annual** sampling events at the background and detection wells listed in Specific Condition #E.3. 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;
3. Specific Condition #E.7. - results of ground water "verification sampling events" shall be submitted **within 60 days from completion of laboratory analyses;**
4. Specific Condition #E.8.c. - results of surface water routine **semi-annual** sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15th and July 15th of each year** for the periods July 1-Dec. 31, and Jan. 1--June 30, respectively;
5. Specific Condition #E.9.b. - results of **annual** leachate sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15th of each year;**
6. Specific Condition #E.9.c. - results of **monthly** leachate sampling events shall be submitted **within 30 days from completion of laboratory analyses.**

Amended 04/23/2010 and 04/15/2011.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

11. Monitoring Plan Evaluation.

a. By June 1, 2009, the permittee shall submit to the Department a report that evaluates ground water velocity in the vicinity of the Phase II, Section I disposal footprint. At a minimum, this report shall include the results of the monthly ground water and surface water level measurements described in Specific Condition #E.4.a., and #E.8.a., respectively, and the results of slug tests conducted at wells MW-10R, MW-11 and MW-12R described in the "Water Quality Sampling and Analysis" subsection of the document entitled "Revised Ground Water Monitoring Plan, Attachment M-1 to the Construction Permit Application for Hardee County Landfill Expansion," prepared by SCS Engineers, revised March 10, 2008 [ref. SC#A.2.a(3)]. This report shall include a recommendation regarding the appropriate routine ground water sampling frequency based on the range of ground water velocity values calculated using the water levels measured between June 2008 and May 2009 and the slug test results. In the event that this report recommends implementing a quarterly frequency for routine ground water sampling, submittal of a request for minor permit modification shall be submitted in accordance with Specific Condition #A.3.

b. By May 1, 2010 and November 1, 2012, 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>
May 1, 2010
November 1, 2012

<u>Starting Sampling Event</u>
Second half 2006
First half 2010

<u>Ending Sampling Event</u>
Second half 2009
First 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 - NPs and Title V Air Requirements.

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

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

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

2. Gas Monitoring and Control.

a. Landfills that receive degradable wastes shall have a gas management and control system designed to prevent explosions and fires, and to minimize off-site odors, lateral migration of gases and damage to vegetation. Landfill gas shall be monitored and controlled as required by 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:

<u>Measured During</u>	<u>Report Submitted By</u>
Quarter 1 (Jan - Mar)	April 15 th of each year
Quarter 2 (Apr - June)	July 15 th of each year
Quarter 3 (July - Sep)	October 15 th of each year
Quarter 4 (Oct - Dec)	January 15 th of each year

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

3. Gas Monitoring Locations. Landfill gas monitoring shall be conducted in accordance with Section O ("Gas Management System Requirements") of the Engineering Report [ref.SC#A.2.a.(1)] and Section L.9 of the Operations Plan to meet the requirements of Rule 62-701.530, F.A.C. All enclosed structures, and the following gas monitoring points shown on Figure O-1, "Gas Probe Locations, Hardee County Landfill Expansion," prepared by SCS Engineers, received November 19, 2004 (**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.:

<u>Ambient Monitoring Points</u>	<u>Description</u>
Maintenance Building	Foundation penetrations; enclosed spaces; electrical control boxes, outlets and openings to conduits; and, ambient air within the structure
MRF building	↓
Scale house/office building	↓
Animal control building	↓
<u>Soil Monitoring Probes</u>	<u>Description</u>
GP-1	Northeast corner of landfill footprint
GP-2	North side of landfill footprint
GP-3	Northwest corner of landfill footprint
GP-4	West side of landfill footprint
GP-5	West side of landfill footprint
GP-6	West side of landfill footprint
GP-9	East side of landfill footprint
GP-10	East side of landfill footprint
GP-11	East side of landfill footprint
GP-12	South of Phase II, Section I
GP-13	South of Phase II, Section I

The listed gas monitoring probes are to be clearly labeled and easily visible at all times.

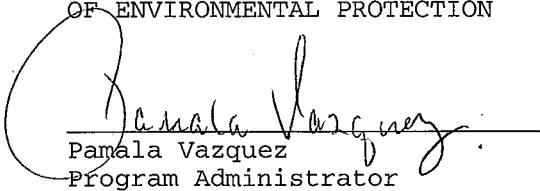
4. Gas Remediation. If the results of gas monitoring show that combustible gas concentrations exceed 25% of the LEL calibrated to methane in structures or 100% of the LEL calibrated to methane at the property boundary, the permittee shall immediately take all necessary steps to ensure protection of human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

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


Pamala Vazquez
Program Administrator
Southwest District

ATTACHMENT 1		
Specific Condition	Submittal Due Date	Required Item
A.4.	No later than November 1, 2012	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.c.(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.d.(3)	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.f.(2)	Within 48 hours of discovery Within 7 days of verbal notification	Notification of exceedance of leakage action rate Written notification & corrective action plan
C.8.g.(3)	No later than November 1, 2012	Submit report of jet cleaning and video inspection of LCS and LDS piping.
C.8.i.(3)	No later than November 1, 2012	Submit report of jet cleaning and video inspection of groundwater interceptor system.

ATTACHMENT 1		
Specific Condition	Submittal Due Date	Required Item
C.13.f.	Annually, by April 15 th 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.a.	Monthly from June 2008 to May 2009 Quarterly after June 2009	Conduct ground water level measurements
E.4.c.	Within 7 days of new well installation and development	Conduct initial sampling event
E.4.d.	Semi-annually	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
E.8.a.	Monthly from June 2008 to May 2009 Quarterly after June 2009	Conduct surface water level measurements
E.8.c.	Semi-annually	Sample storm water retention pond
E.9.b.	Annually	Conduct routine leachate sampling
E.9.c.	Monthly	Conduct supplemental leachate sampling
E.10.b.1., E.10.b.6.	Within 30 days from completion of laboratory analyses	Submit results of: <ul style="list-style-type: none"> - ground water initial sampling - leachate monthly sampling

ATTACHMENT 1		
Specific Condition	Specific Condition	Specific Condition
E.10.b.2., E.10.b.4.	Semi-annually, by Jan.15 th and July 15 th of each year	Submit results of: <ul style="list-style-type: none"> - routine semi-annual ground water sampling at background and detection wells - routine semi-annual surface water sampling
E.10.b.3.	Within 60 days from completion of laboratory analyses	Submit results of: <ul style="list-style-type: none"> - ground water verification sampling
E.10.b.6.	Annually, by Jan. 15 th of each year	Submit results of: <ul style="list-style-type: none"> - leachate annual sampling
E.11.a.	June 1, 2009	Submit ground water velocity evaluation report
E.11.b.	May 1, 2010 and November 1, 2012	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

G:\PROJECT\09199033.12\OPMOD-PH2\RAI No. 2\FIGURES.dwg Jan 18, 2011 - 12:42pm Layout Name: MONITORING LOCATIONS BY: 2483srf

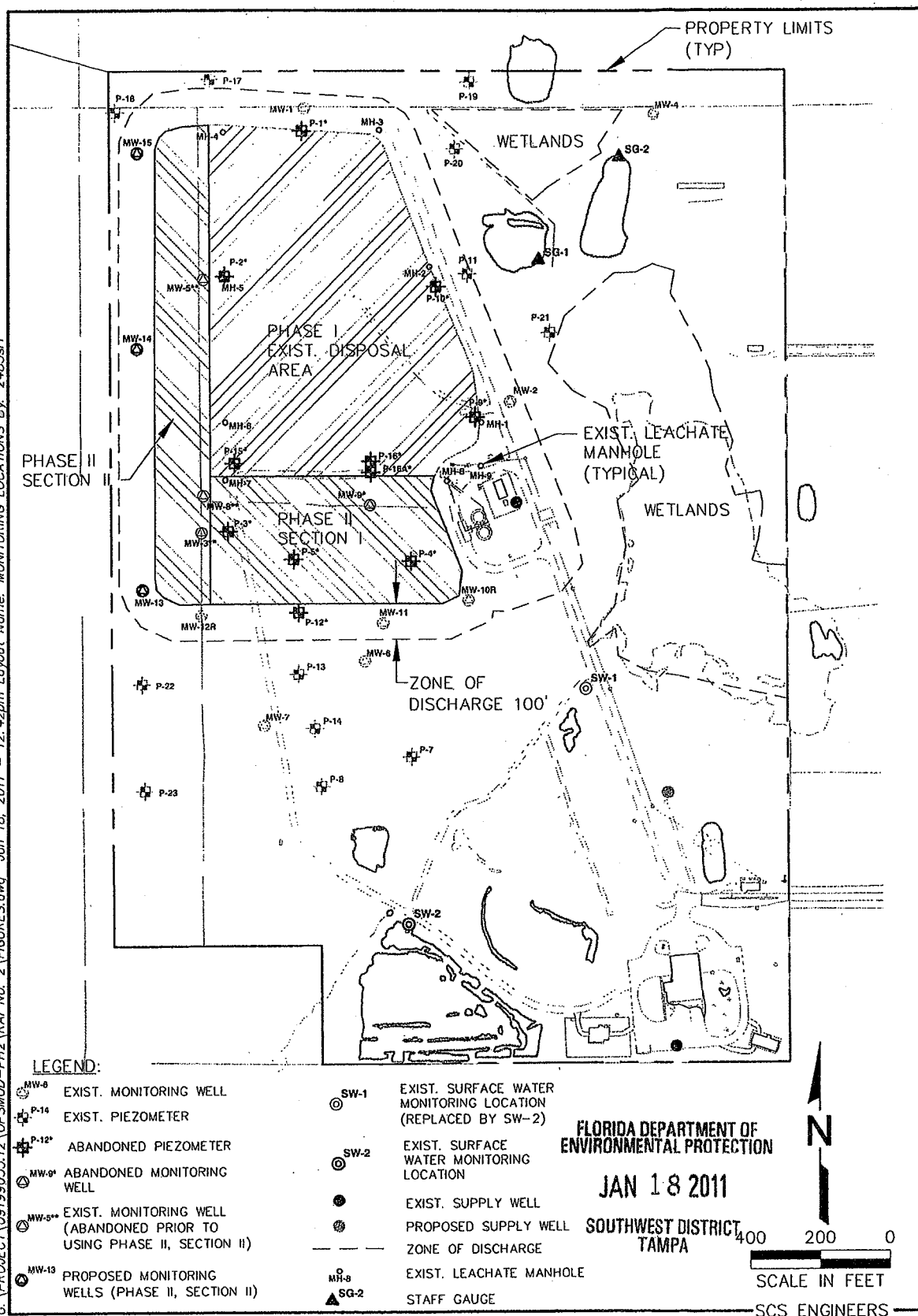


Figure M-1. Hardee County Solid Waste, Groundwater, Surface Water, and Leachate Monitoring Location Points, Hardee County, Florida.

REVISED MARCH 10, 2008
 REVISED JANUARY 18, 2011

**SOUTHWEST DISTRICT
TAMPA**



1. TO BE ABANDONED PRIOR TO CONSTRUCTION OF PHASE II, SECTION II)

LEGEND:

- MW-5 EXIST. MONITORING WELL
 SW-2 EXIST. SURFACE WATER MONITORING LOCATION
 MH-1 EXIST. LEACHATE MANHOLE
 — — ZONE OF DISCHARGE
 MW-12 PROPOSED MONITORING WELLS (PHASE II, SECTION II)

400 200 0
SCALE IN FEET

SCS ENGINEERS

Figure M-2. Hardee County Solid Waste, Groundwater Monitoring Plan Sampling Locations Map, Hardee County, Florida.

REVISÉD MARCH 10, 2008

NOV 19 2004

SOUTHWEST DISTRICT
TAMPA

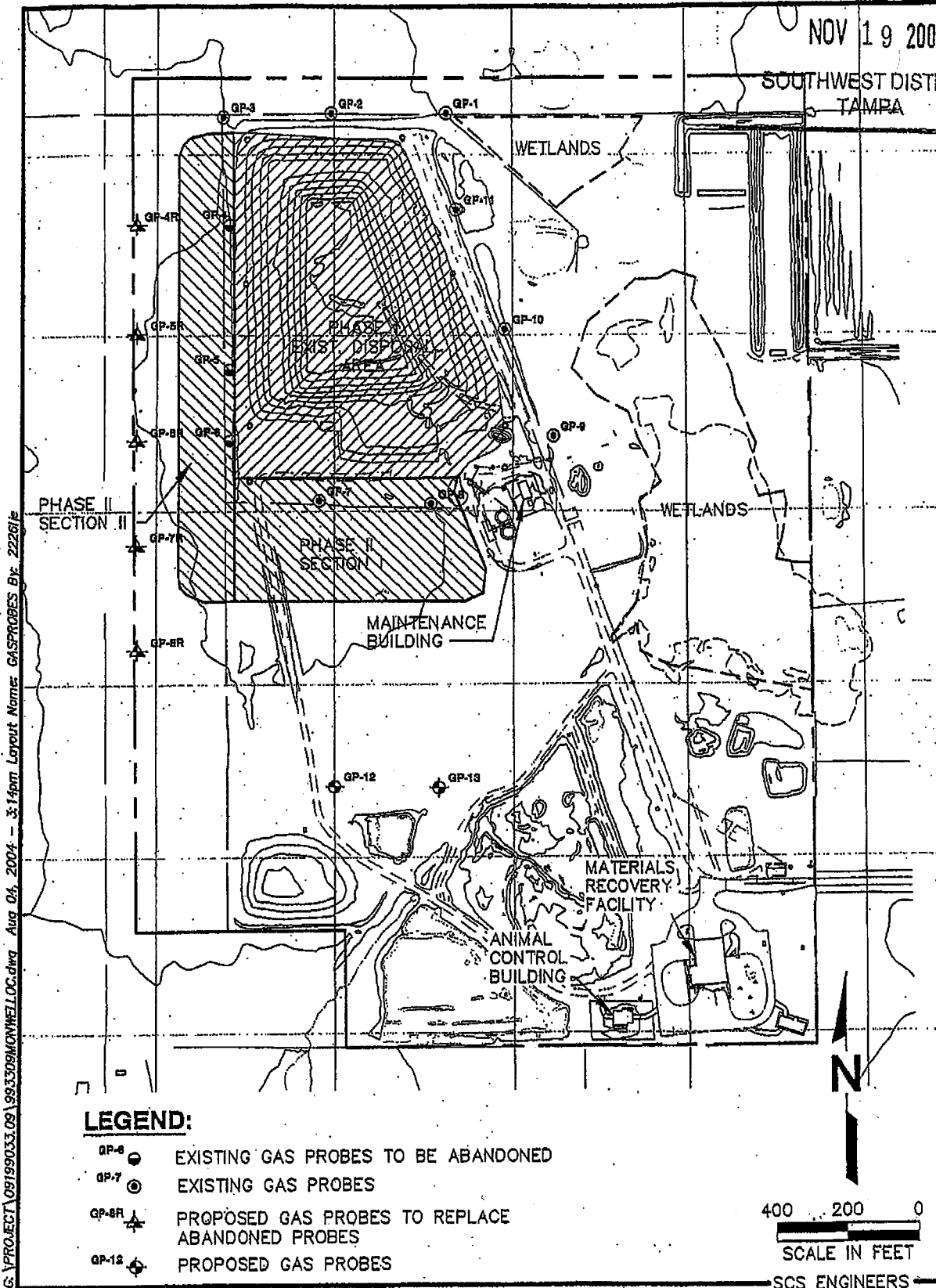


Figure O-1. Gas Probe Locations, Hardee County Landfill Expansion, Hardee County, Florida



Department of Environmental Protection

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

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

MONITORING WELL COMPLETION REPORT

DATE: _____

FACILITY NAME: _____

DEP PERMIT NO.: _____ WACS_FACILITY: _____

WACS MONITORING SITE_NUM.: _____ WACS_WELL: _____

WELL_TYPE: BACKGROUND _____ DETECTION _____ COMPLIANCE _____

LATITUDE AND LONGITUDE (see back for requirements): _____

Coordinate Accuracy _____ Datum _____ Elevation Datum _____

Collection Method _____ Collection Date _____

Collector Name _____ Collector Affiliation _____

AQUIFER MONITORED: _____

DRILLING METHOD: _____ DATE INSTALLED: _____

INSTALLED BY: _____

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

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

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

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

FILTER PACK TYPE: _____ FILTER PACK GRAIN SIZE: _____

INTERVAL COVERED: _____ TO _____ (BLS)

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

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

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

DESCRIBE WELL DEVELOPMENT: _____

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): _____

DATE AND TIME MEASURED: _____

REMARKS: _____

NAME OF PERSON PREPARING REPORT: _____

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

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

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

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

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

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

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

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

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

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

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

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